

Exhibit 5A.3 - §25.115(g)(1) PLOTS & TABLES FOR KU-BAND ANTENNAS

Exhibit Contains:

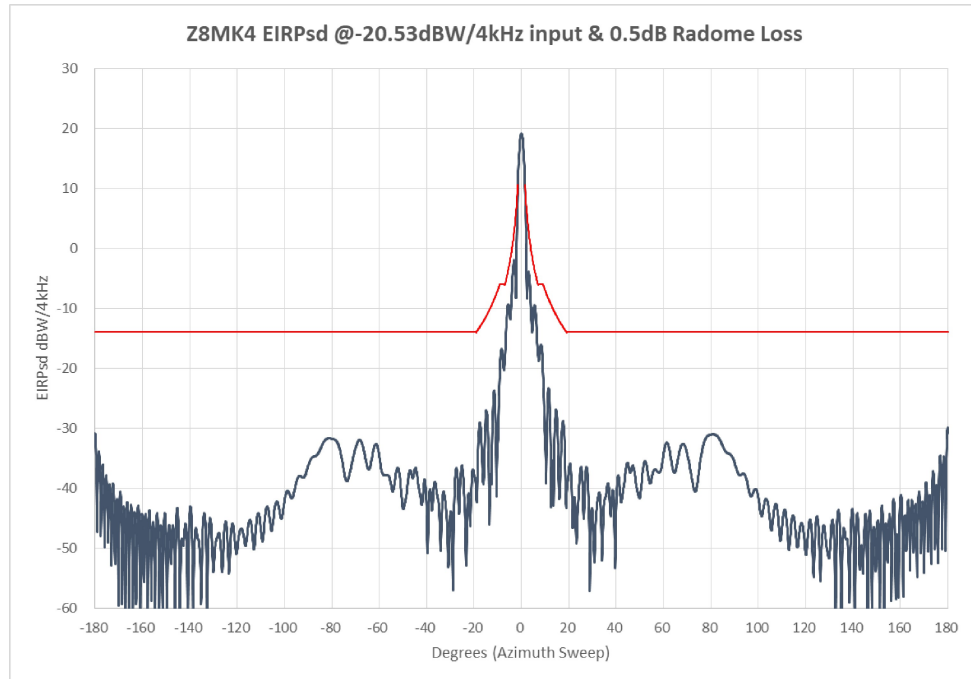
Plots and Tables for KNS Z8 and Z10 antennas

KNS Z8 Ku-band

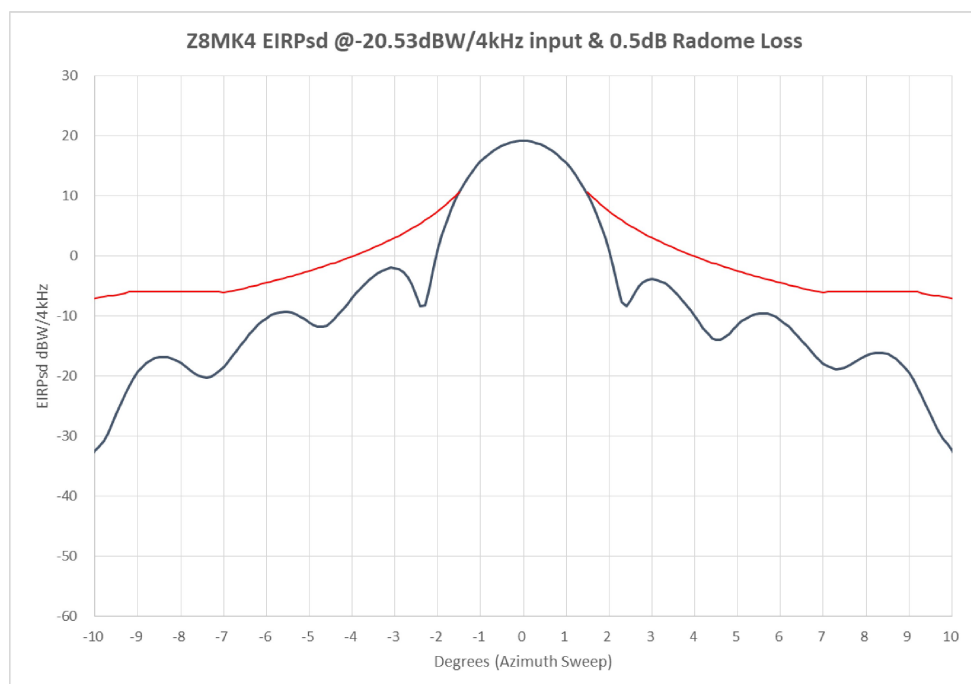
1. Maximum co-polarized EIRP density

1) 14GHz

a) At off-axis angles from $\pm 180^\circ$ range (Tangent)



b) At off-axis angles from $\pm 10^\circ$ range (Tangent)



Model Z8MK4
Frequency 14.00 [GHz]
GSO arc Tangent
EIRPsd Input -20.53 [dBW/4kHz]
Radome Loss 0.5 [dB]
39.73

Min input:
(@all freq.) -20.53

out of spec.

Azimuth [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
-180.0	-10.31	-30.84	-14	3.69	0
-179.9	-10.44	-30.97	-14	3.56	0
-179.8	-10.85	-31.38	-14	3.15	0
-179.7	-11.55	-32.08	-14	2.45	0
-179.6	-12.59	-33.12	-14	1.41	0
-179.5	-14.05	-34.58	-14	-0.05	0
-179.4	-16.06	-36.59	-14	-2.06	0
-179.3	-18.87	-39.39	-14	-4.87	0
-179.2	-22.82	-43.35	-14	-8.82	0
-179.1	-26.76	-47.29	-14	-12.76	0
-179.0	-24.47	-45.00	-14	-10.47	0
-178.9	-20.50	-41.02	-14	-6.50	0
-178.8	-17.71	-38.24	-14	-3.71	0
-178.7	-15.83	-36.35	-14	-1.83	0
-178.6	-14.57	-35.10	-14	-0.57	0
-178.5	-13.79	-34.32	-14	0.21	0
-178.4	-13.39	-33.92	-14	0.61	0
-178.3	-13.35	-33.87	-14	0.65	0
-178.2	-13.63	-34.16	-14	0.37	0
-178.1	-14.27	-34.80	-14	-0.27	0
-178.0	-15.29	-35.81	-14	-1.29	0
-177.9	-16.76	-37.29	-14	-2.76	0
-177.8	-18.84	-39.37	-14	-4.84	0
-177.7	-21.72	-42.25	-14	-7.72	0
-177.6	-25.44	-45.96	-14	-11.44	0
-177.5	-27.42	-47.95	-14	-13.42	0
-177.4	-24.58	-45.10	-14	-10.58	0
-177.3	-21.33	-41.86	-14	-7.33	0
-177.2	-19.00	-39.53	-14	-5.00	0
-177.1	-17.41	-37.94	-14	-3.41	0
-177.0	-16.37	-36.90	-14	-2.37	0
-176.9	-15.78	-36.31	-14	-1.78	0
-176.8	-15.57	-36.10	-14	-1.57	0
-176.7	-15.71	-36.24	-14	-1.71	0
-176.6	-16.22	-36.75	-14	-2.22	0
-176.5	-17.12	-37.65	-14	-3.12	0
-176.4	-18.48	-39.01	-14	-4.48	0
-176.3	-20.43	-40.96	-14	-6.43	0
-176.2	-23.17	-43.70	-14	-9.17	0
-176.1	-26.83	-47.35	-14	-12.83	0
-176.0	-29.38	-49.91	-14	-15.38	0
-175.9	-26.86	-47.39	-14	-12.86	0

-175.8	-23.47	-43.99	-14	-9.47	0
-175.7	-21.00	-41.53	-14	-7.00	0
-175.6	-19.32	-39.85	-14	-5.32	0
-175.5	-18.22	-38.75	-14	-4.22	0
-175.4	-17.58	-38.11	-14	-3.58	0
-175.3	-17.33	-37.86	-14	-3.33	0
-175.2	-17.45	-37.98	-14	-3.45	0
-175.1	-17.94	-38.47	-14	-3.94	0
-175.0	-18.82	-39.35	-14	-4.82	0
-174.9	-20.15	-40.68	-14	-6.15	0
-174.8	-22.02	-42.55	-14	-8.02	0
-174.7	-24.53	-45.06	-14	-10.53	0
-174.6	-27.41	-47.94	-14	-13.41	0
-174.5	-28.60	-49.13	-14	-14.60	0
-174.4	-26.56	-47.09	-14	-12.56	0
-174.3	-23.91	-44.44	-14	-9.91	0
-174.2	-21.84	-42.37	-14	-7.84	0
-174.1	-20.39	-40.91	-14	-6.39	0
-174.0	-19.44	-39.97	-14	-5.44	0
-173.9	-18.92	-39.45	-14	-4.92	0
-173.8	-18.80	-39.33	-14	-4.80	0
-173.7	-19.05	-39.58	-14	-5.05	0
-173.6	-19.71	-40.24	-14	-5.71	0
-173.5	-20.82	-41.35	-14	-6.82	0
-173.4	-22.50	-43.03	-14	-8.50	0
-173.3	-24.96	-45.49	-14	-10.96	0
-173.2	-28.51	-49.04	-14	-14.51	0
-173.1	-32.32	-52.85	-14	-18.32	0
-173.0	-30.67	-51.20	-14	-16.67	0
-172.9	-26.63	-47.16	-14	-12.63	0
-172.8	-23.66	-44.19	-14	-9.66	0
-172.7	-21.62	-42.15	-14	-7.62	0
-172.6	-20.23	-40.76	-14	-6.23	0
-172.5	-19.33	-39.86	-14	-5.33	0
-172.4	-18.84	-39.37	-14	-4.84	0
-172.3	-18.70	-39.23	-14	-4.70	0
-172.2	-18.91	-39.44	-14	-4.91	0
-172.1	-19.47	-40.00	-14	-5.47	0
-172.0	-20.41	-40.94	-14	-6.41	0
-171.9	-21.81	-42.34	-14	-7.81	0
-171.8	-23.79	-44.32	-14	-9.79	0
-171.7	-26.53	-47.05	-14	-12.53	0
-171.6	-30.04	-50.57	-14	-16.04	0
-171.5	-32.17	-52.70	-14	-18.17	0
-171.4	-29.79	-50.32	-14	-15.79	0
-171.3	-26.67	-47.20	-14	-12.67	0
-171.2	-24.39	-44.91	-14	-10.39	0
-171.1	-22.84	-43.37	-14	-8.84	0
-171.0	-21.88	-42.41	-14	-7.88	0
-170.9	-21.39	-41.92	-14	-7.39	0

-170.8	-21.33	-41.86	-14	-7.33	0
-170.7	-21.69	-42.22	-14	-7.69	0
-170.6	-22.51	-43.04	-14	-8.51	0
-170.5	-23.89	-44.42	-14	-9.89	0
-170.4	-26.04	-46.57	-14	-12.04	0
-170.3	-29.44	-49.97	-14	-15.44	0
-170.2	-35.40	-55.93	-14	-21.40	0
-170.1	-39.14	-59.67	-14	-25.14	0
-170.0	-31.57	-52.10	-14	-17.57	0
-169.9	-27.11	-47.64	-14	-13.11	0
-169.8	-24.35	-44.87	-14	-10.35	0
-169.7	-22.50	-43.03	-14	-8.50	0
-169.6	-21.26	-41.79	-14	-7.26	0
-169.5	-20.48	-41.01	-14	-6.48	0
-169.4	-20.09	-40.61	-14	-6.09	0
-169.3	-20.04	-40.57	-14	-6.04	0
-169.2	-20.33	-40.86	-14	-6.33	0
-169.1	-20.99	-41.52	-14	-6.99	0
-169.0	-22.06	-42.59	-14	-8.06	0
-168.9	-23.64	-44.17	-14	-9.64	0
-168.8	-25.94	-46.46	-14	-11.94	0
-168.7	-29.38	-49.91	-14	-15.38	0
-168.6	-34.94	-55.47	-14	-20.94	0
-168.5	-38.82	-59.35	-14	-24.82	0
-168.4	-32.55	-53.08	-14	-18.55	0
-168.3	-28.35	-48.87	-14	-14.35	0
-168.2	-25.78	-46.30	-14	-11.78	0
-168.1	-24.14	-44.67	-14	-10.14	0
-168.0	-23.13	-43.66	-14	-9.13	0
-167.9	-22.62	-43.15	-14	-8.62	0
-167.8	-22.55	-43.07	-14	-8.55	0
-167.7	-22.89	-43.42	-14	-8.89	0
-167.6	-23.69	-44.22	-14	-9.69	0
-167.5	-25.03	-45.56	-14	-11.03	0
-167.4	-27.13	-47.66	-14	-13.13	0
-167.3	-30.46	-50.99	-14	-16.46	0
-167.2	-36.60	-57.13	-14	-22.60	0
-167.1	-45.63	-66.16	-14	-31.63	0
-167.0	-34.31	-54.84	-14	-20.31	0
-166.9	-29.21	-49.73	-14	-15.21	0
-166.8	-26.23	-46.75	-14	-12.23	0
-166.7	-24.29	-44.81	-14	-10.29	0
-166.6	-23.00	-43.53	-14	-9.00	0
-166.5	-22.21	-42.74	-14	-8.21	0
-166.4	-21.82	-42.35	-14	-7.82	0
-166.3	-21.80	-42.33	-14	-7.80	0
-166.2	-22.15	-42.68	-14	-8.15	0
-166.1	-22.89	-43.42	-14	-8.89	0
-166.0	-24.11	-44.64	-14	-10.11	0
-165.9	-25.95	-46.47	-14	-11.95	0

-165.8	-28.74	-49.27	-14	-14.74	0
-165.7	-33.43	-53.96	-14	-19.43	0
-165.6	-44.59	-65.11	-14	-30.59	0
-165.5	-38.59	-59.12	-14	-24.59	0
-165.4	-31.32	-51.85	-14	-17.32	0
-165.3	-27.64	-48.17	-14	-13.64	0
-165.2	-25.34	-45.87	-14	-11.34	0
-165.1	-23.83	-44.36	-14	-9.83	0
-165.0	-22.87	-43.40	-14	-8.87	0
-164.9	-22.34	-42.87	-14	-8.34	0
-164.8	-22.19	-42.72	-14	-8.19	0
-164.7	-22.40	-42.93	-14	-8.40	0
-164.6	-22.98	-43.51	-14	-8.98	0
-164.5	-23.99	-44.52	-14	-9.99	0
-164.4	-25.53	-46.05	-14	-11.53	0
-164.3	-27.81	-48.33	-14	-13.81	0
-164.2	-31.33	-51.86	-14	-17.33	0
-164.1	-37.61	-58.14	-14	-23.61	0
-164.0	-43.62	-64.15	-14	-29.62	0
-163.9	-34.61	-55.14	-14	-20.61	0
-163.8	-29.97	-50.50	-14	-15.97	0
-163.7	-27.22	-47.75	-14	-13.22	0
-163.6	-25.45	-45.98	-14	-11.45	0
-163.5	-24.32	-44.85	-14	-10.32	0
-163.4	-23.68	-44.21	-14	-9.68	0
-163.3	-23.46	-43.99	-14	-9.46	0
-163.2	-23.62	-44.15	-14	-9.62	0
-163.1	-24.20	-44.72	-14	-10.20	0
-163.0	-25.22	-45.75	-14	-11.22	0
-162.9	-26.83	-47.36	-14	-12.83	0
-162.8	-29.26	-49.79	-14	-15.26	0
-162.7	-33.05	-53.57	-14	-19.05	0
-162.6	-38.78	-59.31	-14	-24.78	0
-162.5	-37.73	-58.26	-14	-23.73	0
-162.4	-32.13	-52.66	-14	-18.13	0
-162.3	-28.52	-49.05	-14	-14.52	0
-162.2	-26.14	-46.67	-14	-12.14	0
-162.1	-24.52	-45.05	-14	-10.52	0
-162.0	-23.43	-43.95	-14	-9.43	0
-161.9	-22.75	-43.28	-14	-8.75	0
-161.8	-22.43	-42.96	-14	-8.43	0
-161.7	-22.45	-42.98	-14	-8.45	0
-161.6	-22.80	-43.33	-14	-8.80	0
-161.5	-23.52	-44.05	-14	-9.52	0
-161.4	-24.65	-45.18	-14	-10.65	0
-161.3	-26.34	-46.86	-14	-12.34	0
-161.2	-28.82	-49.35	-14	-14.82	0
-161.1	-32.76	-53.28	-14	-18.76	0
-161.0	-40.68	-61.21	-14	-26.68	0
-160.9	-45.52	-66.05	-14	-31.52	0

-160.8	-34.60	-55.13	-14	-20.60	0
-160.7	-30.13	-50.65	-14	-16.13	0
-160.6	-27.48	-48.01	-14	-13.48	0
-160.5	-25.77	-46.29	-14	-11.77	0
-160.4	-24.66	-45.19	-14	-10.66	0
-160.3	-24.02	-44.54	-14	-10.02	0
-160.2	-23.76	-44.29	-14	-9.76	0
-160.1	-23.87	-44.39	-14	-9.87	0
-160.0	-24.33	-44.86	-14	-10.33	0
-159.9	-25.18	-45.71	-14	-11.18	0
-159.8	-26.49	-47.02	-14	-12.49	0
-159.7	-28.35	-48.87	-14	-14.35	0
-159.6	-30.88	-51.41	-14	-16.88	0
-159.5	-33.87	-54.40	-14	-19.87	0
-159.4	-35.07	-55.60	-14	-21.07	0
-159.3	-32.74	-53.26	-14	-18.74	0
-159.2	-29.84	-50.37	-14	-15.84	0
-159.1	-27.59	-48.12	-14	-13.59	0
-159.0	-25.97	-46.49	-14	-11.97	0
-158.9	-24.85	-45.38	-14	-10.85	0
-158.8	-24.15	-44.68	-14	-10.15	0
-158.7	-23.81	-44.34	-14	-9.81	0
-158.6	-23.82	-44.34	-14	-9.82	0
-158.5	-24.17	-44.69	-14	-10.17	0
-158.4	-24.90	-45.42	-14	-10.90	0
-158.3	-26.08	-46.61	-14	-12.08	0
-158.2	-27.86	-48.39	-14	-13.86	0
-158.1	-30.56	-51.09	-14	-16.56	0
-158.0	-35.07	-55.60	-14	-21.07	0
-157.9	-45.74	-66.27	-14	-31.74	0
-157.8	-41.35	-61.88	-14	-27.35	0
-157.7	-33.47	-54.00	-14	-19.47	0
-157.6	-29.56	-50.09	-14	-15.56	0
-157.5	-27.10	-47.63	-14	-13.10	0
-157.4	-25.44	-45.97	-14	-11.44	0
-157.3	-24.32	-44.84	-14	-10.32	0
-157.2	-23.60	-44.13	-14	-9.60	0
-157.1	-23.23	-43.76	-14	-9.23	0
-157.0	-23.18	-43.71	-14	-9.18	0
-156.9	-23.44	-43.97	-14	-9.44	0
-156.8	-24.01	-44.54	-14	-10.01	0
-156.7	-24.95	-45.48	-14	-10.95	0
-156.6	-26.31	-46.84	-14	-12.31	0
-156.5	-28.23	-48.76	-14	-14.23	0
-156.4	-30.93	-51.46	-14	-16.93	0
-156.3	-34.70	-55.22	-14	-20.70	0
-156.2	-38.22	-58.75	-14	-24.22	0
-156.1	-36.02	-56.55	-14	-22.02	0
-156.0	-32.21	-52.74	-14	-18.21	0
-155.9	-29.46	-49.99	-14	-15.46	0

-155.8	-27.58	-48.11	-14	-13.58	0
-155.7	-26.31	-46.84	-14	-12.31	0
-155.6	-25.53	-46.05	-14	-11.53	0
-155.5	-25.14	-45.66	-14	-11.14	0
-155.4	-25.11	-45.64	-14	-11.11	0
-155.3	-25.44	-45.97	-14	-11.44	0
-155.2	-26.17	-46.70	-14	-12.17	0
-155.1	-27.37	-47.89	-14	-13.37	0
-155.0	-29.18	-49.70	-14	-15.18	0
-154.9	-31.94	-52.47	-14	-17.94	0
-154.8	-36.51	-57.04	-14	-22.51	0
-154.7	-44.92	-65.44	-14	-30.92	0
-154.6	-39.69	-60.22	-14	-25.69	0
-154.5	-33.46	-53.99	-14	-19.46	0
-154.4	-29.90	-50.43	-14	-15.90	0
-154.3	-27.56	-48.08	-14	-13.56	0
-154.2	-25.93	-46.46	-14	-11.93	0
-154.1	-24.81	-45.34	-14	-10.81	0
-154.0	-24.07	-44.60	-14	-10.07	0
-153.9	-23.66	-44.19	-14	-9.66	0
-153.8	-23.55	-44.08	-14	-9.55	0
-153.7	-23.72	-44.25	-14	-9.72	0
-153.6	-24.19	-44.72	-14	-10.19	0
-153.5	-24.98	-45.51	-14	-10.98	0
-153.4	-26.15	-46.68	-14	-12.15	0
-153.3	-27.79	-48.32	-14	-13.79	0
-153.2	-30.09	-50.62	-14	-16.09	0
-153.1	-33.38	-53.91	-14	-19.38	0
-153.0	-37.92	-58.45	-14	-23.92	0
-152.9	-39.60	-60.13	-14	-25.60	0
-152.8	-35.34	-55.87	-14	-21.34	0
-152.7	-31.77	-52.30	-14	-17.77	0
-152.6	-29.36	-49.89	-14	-15.36	0
-152.5	-27.73	-48.26	-14	-13.73	0
-152.4	-26.66	-47.18	-14	-12.66	0
-152.3	-26.01	-46.54	-14	-12.01	0
-152.2	-25.74	-46.26	-14	-11.74	0
-152.1	-25.81	-46.34	-14	-11.81	0
-152.0	-26.23	-46.76	-14	-12.23	0
-151.9	-27.05	-47.57	-14	-13.05	0
-151.8	-28.32	-48.85	-14	-14.32	0
-151.7	-30.21	-50.74	-14	-16.21	0
-151.6	-32.99	-53.52	-14	-18.99	0
-151.5	-37.07	-57.60	-14	-23.07	0
-151.4	-40.36	-60.89	-14	-26.36	0
-151.3	-36.59	-57.12	-14	-22.59	0
-151.2	-32.40	-52.93	-14	-18.40	0
-151.1	-29.49	-50.02	-14	-15.49	0
-151.0	-27.43	-47.96	-14	-13.43	0
-150.9	-25.95	-46.47	-14	-11.95	0

-150.8	-24.89	-45.42	-14	-10.89	0
-150.7	-24.19	-44.71	-14	-10.19	0
-150.6	-23.77	-44.30	-14	-9.77	0
-150.5	-23.63	-44.16	-14	-9.63	0
-150.4	-23.75	-44.28	-14	-9.75	0
-150.3	-24.14	-44.67	-14	-10.14	0
-150.2	-24.82	-45.35	-14	-10.82	0
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6.2	8.72	-11.81	-4.809792237	13.53	0
6.3	8.01	-12.52	-4.983513736	12.99	0
6.4	7.24	-13.29	-5.15449935	12.39	0
6.5	6.43	-14.10	-5.322833916	11.75	0
6.6	5.60	-14.93	-5.488598389	11.09	0
6.7	4.78	-15.75	-5.651870068	10.43	0
6.8	3.99	-16.53	-5.812722818	9.81	0
6.9	3.28	-17.25	-5.971227268	9.25	0
7.0	2.66	-17.86	-6.127451	8.79	0
7.1	2.18	-18.35	-6	8.18	0
7.2	1.85	-18.67	-6	7.85	0
7.3	1.71	-18.82	-6	7.71	0
7.4	1.75	-18.78	-6	7.75	0
7.5	1.96	-18.57	-6	7.96	0
7.6	2.30	-18.23	-6	8.30	0
7.7	2.71	-17.82	-6	8.71	0
7.8	3.15	-17.38	-6	9.15	0
7.9	3.56	-16.97	-6	9.56	0
8.0	3.92	-16.61	-6	9.92	0
8.1	4.20	-16.33	-6	10.20	0
8.2	4.37	-16.16	-6	10.37	0
8.3	4.44	-16.09	-6	10.44	0
8.4	4.38	-16.15	-6	10.38	0
8.5	4.19	-16.34	-6	10.19	0
8.6	3.86	-16.67	-6	9.86	0
8.7	3.39	-17.14	-6	9.39	0
8.8	2.77	-17.76	-6	8.77	0
8.9	1.99	-18.54	-6	7.99	0
9.0	1.05	-19.48	-6	7.05	0
9.1	-0.06	-20.59	-6	5.94	0

9.2	-1.33	-21.86	-6	4.67	0
9.3	-2.76	-23.29	-6.212073714	3.45	0
9.4	-4.31	-24.84	-6.32819634	2.02	0
9.5	-5.91	-26.43	-6.443090132	0.54	0
9.6	-7.44	-27.96	-6.556780826	-0.88	0
9.7	-8.78	-29.31	-6.669293357	-2.11	0
9.8	-9.88	-30.41	-6.780651892	-3.10	0
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10.1	-13.13	-33.66	-7.108034345	-6.02	0
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10.5	-16.87	-37.40	-7.529732477	-9.34	0
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10.7	-10.66	-31.19	-7.734594442	-2.93	0
10.8	-8.40	-28.93	-7.835593887	-0.56	0
10.9	-6.64	-27.17	-7.935662449	1.29	0
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12.4	-15.96	-36.49	-9.335542129	-6.63	0
12.5	-20.34	-40.87	-9.422750325	-10.92	0
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12.7	-20.00	-40.53	-9.595093024	-10.41	0
12.8	-17.34	-37.87	-9.680249241	-7.66	0
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13.2	-15.49	-36.01	-10.01434828	-5.47	0
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13.5	-21.69	-42.22	-10.25834421	-11.43	0
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13.9	-13.27	-33.80	-10.57537001	-2.69	0
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15.3	-10.61	-31.14	-11.61728577	1.01	0
15.4	-12.21	-32.74	-11.68801802	-0.52	0
15.5	-14.03	-34.55	-11.75829245	-2.27	0
15.6	-16.01	-36.53	-11.82811496	-4.18	0
15.7	-18.01	-38.54	-11.89749131	-6.11	0
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15.9	-20.88	-41.41	-12.03492811	-8.85	0
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16.5	-17.34	-37.87	-12.43709861	-4.91	0
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16.7	-14.49	-35.01	-12.56791178	-1.92	0
16.8	-13.15	-33.68	-12.63273204	-0.52	0
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17.0	-10.92	-31.45	-12.76122303	1.84	0
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18.5	-16.23	-36.76	-13.67929321	-2.55	0
18.6	-18.25	-38.78	-13.73782361	-4.52	0
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18.9	-22.79	-43.31	-13.9115451	-8.87	0
19.0	-22.26	-42.79	-13.96884002	-8.29	0
19.1	-21.24	-41.77	-14.02583418	-7.21	0

19.2	-20.24	-40.77	-14	-6.24	0
19.3	-19.45	-39.97	-14	-5.45	0
19.4	-18.85	-39.38	-14	-4.85	0
19.5	-18.41	-38.94	-14	-4.41	0
19.6	-18.07	-38.60	-14	-4.07	0
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19.8	-17.45	-37.98	-14	-3.45	0
19.9	-17.11	-37.63	-14	-3.11	0
20.0	-16.73	-37.26	-14	-2.73	0
20.1	-16.34	-36.87	-14	-2.34	0
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20.3	-15.68	-36.21	-14	-1.68	0
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20.5	-15.37	-35.90	-14	-1.37	0
20.6	-15.42	-35.94	-14	-1.42	0
20.7	-15.61	-36.14	-14	-1.61	0
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21.0	-17.30	-37.83	-14	-3.30	0
21.1	-18.31	-38.83	-14	-4.31	0
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21.4	-22.89	-43.42	-14	-8.89	0
21.5	-24.72	-45.25	-14	-10.72	0
21.6	-26.01	-46.54	-14	-12.01	0
21.7	-26.08	-46.61	-14	-12.08	0
21.8	-25.10	-45.63	-14	-11.10	0
21.9	-23.81	-44.34	-14	-9.81	0
22.0	-22.67	-43.20	-14	-8.67	0
22.1	-21.82	-42.35	-14	-7.82	0
22.2	-21.27	-41.80	-14	-7.27	0
22.3	-21.01	-41.54	-14	-7.01	0
22.4	-21.02	-41.55	-14	-7.02	0
22.5	-21.30	-41.83	-14	-7.30	0
22.6	-21.84	-42.37	-14	-7.84	0
22.7	-22.65	-43.18	-14	-8.65	0
22.8	-23.72	-44.25	-14	-9.72	0
22.9	-25.04	-45.57	-14	-11.04	0
23.0	-26.52	-47.05	-14	-12.52	0
23.1	-27.91	-48.43	-14	-13.91	0
23.2	-28.70	-49.22	-14	-14.70	0
23.3	-28.51	-49.04	-14	-14.51	0
23.4	-27.57	-48.09	-14	-13.57	0
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23.6	-25.21	-45.74	-14	-11.21	0
23.7	-24.20	-44.72	-14	-10.20	0
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24.3	-19.82	-40.35	-14	-5.82	0
24.4	-19.14	-39.66	-14	-5.14	0
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24.6	-17.86	-38.39	-14	-3.86	0
24.7	-17.30	-37.83	-14	-3.30	0
24.8	-16.83	-37.36	-14	-2.83	0
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25.0	-16.18	-36.71	-14	-2.18	0
25.1	-16.03	-36.56	-14	-2.03	0
25.2	-16.00	-36.53	-14	-2.00	0
25.3	-16.12	-36.64	-14	-2.12	0
25.4	-16.37	-36.90	-14	-2.37	0
25.5	-16.79	-37.32	-14	-2.79	0
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25.7	-18.15	-38.68	-14	-4.15	0
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26.8	-18.79	-39.32	-14	-4.79	0
26.9	-17.90	-38.43	-14	-3.90	0
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27.1	-16.65	-37.18	-14	-2.65	0
27.2	-16.27	-36.80	-14	-2.27	0
27.3	-16.03	-36.55	-14	-2.03	0
27.4	-15.92	-36.45	-14	-1.92	0
27.5	-15.94	-36.47	-14	-1.94	0
27.6	-16.08	-36.61	-14	-2.08	0
27.7	-16.35	-36.88	-14	-2.35	0
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28.8	-34.32	-54.85	-14	-20.32	0
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29.2	-27.63	-48.16	-14	-13.63	0
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29.4	-24.64	-45.17	-14	-10.64	0
29.5	-23.76	-44.29	-14	-9.76	0
29.6	-23.18	-43.70	-14	-9.18	0
29.7	-22.84	-43.37	-14	-8.84	0
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29.9	-22.85	-43.37	-14	-8.85	0
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30.8	-31.82	-52.34	-14	-17.82	0
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31.6	-23.41	-43.93	-14	-9.41	0
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32.3	-21.07	-41.60	-14	-7.07	0
32.4	-20.82	-41.35	-14	-6.82	0
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32.6	-20.40	-40.92	-14	-6.40	0
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32.8	-20.19	-40.72	-14	-6.19	0
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33.1	-20.58	-41.11	-14	-6.58	0
33.2	-20.95	-41.48	-14	-6.95	0
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35.7	-20.70	-41.22	-14	-6.70	0
35.8	-20.45	-40.98	-14	-6.45	0
35.9	-20.17	-40.69	-14	-6.17	0
36.0	-19.85	-40.38	-14	-5.85	0
36.1	-19.53	-40.06	-14	-5.53	0
36.2	-19.24	-39.77	-14	-5.24	0
36.3	-19.00	-39.53	-14	-5.00	0
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36.9	-19.46	-39.98	-14	-5.46	0
37.0	-19.94	-40.47	-14	-5.94	0
37.1	-20.56	-41.08	-14	-6.56	0
37.2	-21.29	-41.81	-14	-7.29	0
37.3	-22.10	-42.63	-14	-8.10	0
37.4	-22.94	-43.47	-14	-8.94	0
37.5	-23.68	-44.21	-14	-9.68	0
37.6	-24.15	-44.68	-14	-10.15	0
37.7	-24.21	-44.74	-14	-10.21	0
37.8	-23.84	-44.37	-14	-9.84	0
37.9	-23.19	-43.71	-14	-9.19	0
38.0	-22.41	-42.94	-14	-8.41	0
38.1	-21.65	-42.18	-14	-7.65	0
38.2	-20.99	-41.52	-14	-6.99	0
38.3	-20.46	-40.98	-14	-6.46	0
38.4	-20.08	-40.60	-14	-6.08	0
38.5	-19.86	-40.38	-14	-5.86	0
38.6	-19.81	-40.33	-14	-5.81	0
38.7	-19.93	-40.46	-14	-5.93	0
38.8	-20.24	-40.77	-14	-6.24	0
38.9	-20.77	-41.29	-14	-6.77	0
39.0	-21.52	-42.05	-14	-7.52	0
39.1	-22.56	-43.09	-14	-8.56	0

39.2	-23.95	-44.47	-14	-9.95	0
39.3	-25.78	-46.31	-14	-11.78	0
39.4	-28.17	-48.70	-14	-14.17	0
39.5	-31.05	-51.58	-14	-17.05	0
39.6	-32.82	-53.35	-14	-18.82	0
39.7	-31.06	-51.59	-14	-17.06	0
39.8	-28.02	-48.55	-14	-14.02	0
39.9	-25.42	-45.95	-14	-11.42	0
40.0	-23.39	-43.91	-14	-9.39	0
40.1	-21.80	-42.32	-14	-7.80	0
40.2	-20.54	-41.07	-14	-6.54	0
40.3	-19.56	-40.09	-14	-5.56	0
40.4	-18.80	-39.32	-14	-4.80	0
40.5	-18.22	-38.75	-14	-4.22	0
40.6	-17.80	-38.33	-14	-3.80	0
40.7	-17.53	-38.06	-14	-3.53	0
40.8	-17.39	-37.92	-14	-3.39	0
40.9	-17.38	-37.90	-14	-3.38	0
41.0	-17.48	-38.00	-14	-3.48	0
41.1	-17.68	-38.21	-14	-3.68	0
41.2	-17.99	-38.52	-14	-3.99	0
41.3	-18.39	-38.92	-14	-4.39	0
41.4	-18.87	-39.39	-14	-4.87	0
41.5	-19.40	-39.93	-14	-5.40	0
41.6	-19.98	-40.51	-14	-5.98	0
41.7	-20.55	-41.08	-14	-6.55	0
41.8	-21.08	-41.61	-14	-7.08	0
41.9	-21.50	-42.03	-14	-7.50	0
42.0	-21.79	-42.31	-14	-7.79	0
42.1	-21.90	-42.43	-14	-7.90	0
42.2	-21.85	-42.38	-14	-7.85	0
42.3	-21.68	-42.20	-14	-7.68	0
42.4	-21.42	-41.94	-14	-7.42	0
42.5	-21.12	-41.64	-14	-7.12	0
42.6	-20.81	-41.33	-14	-6.81	0
42.7	-20.51	-41.03	-14	-6.51	0
42.8	-20.22	-40.75	-14	-6.22	0
42.9	-19.96	-40.49	-14	-5.96	0
43.0	-19.71	-40.23	-14	-5.71	0
43.1	-19.46	-39.98	-14	-5.46	0
43.2	-19.20	-39.72	-14	-5.20	0
43.3	-18.92	-39.45	-14	-4.92	0
43.4	-18.62	-39.15	-14	-4.62	0
43.5	-18.29	-38.82	-14	-4.29	0
43.6	-17.95	-38.48	-14	-3.95	0
43.7	-17.59	-38.12	-14	-3.59	0
43.8	-17.22	-37.75	-14	-3.22	0
43.9	-16.86	-37.39	-14	-2.86	0
44.0	-16.52	-37.05	-14	-2.52	0
44.1	-16.21	-36.74	-14	-2.21	0

44.2	-15.93	-36.46	-14	-1.93	0
44.3	-15.69	-36.22	-14	-1.69	0
44.4	-15.50	-36.03	-14	-1.50	0
44.5	-15.35	-35.88	-14	-1.35	0
44.6	-15.26	-35.79	-14	-1.26	0
44.7	-15.23	-35.75	-14	-1.23	0
44.8	-15.24	-35.77	-14	-1.24	0
44.9	-15.30	-35.83	-14	-1.30	0
45.0	-15.41	-35.94	-14	-1.41	0
45.1	-15.56	-36.09	-14	-1.56	0
45.2	-15.74	-36.27	-14	-1.74	0
45.3	-15.95	-36.48	-14	-1.95	0
45.4	-16.17	-36.69	-14	-2.17	0
45.5	-16.38	-36.91	-14	-2.38	0
45.6	-16.58	-37.10	-14	-2.58	0
45.7	-16.74	-37.26	-14	-2.74	0
45.8	-16.85	-37.37	-14	-2.85	0
45.9	-16.90	-37.43	-14	-2.90	0
46.0	-16.89	-37.42	-14	-2.89	0
46.1	-16.82	-37.35	-14	-2.82	0
46.2	-16.71	-37.24	-14	-2.71	0
46.3	-16.56	-37.09	-14	-2.56	0
46.4	-16.39	-36.92	-14	-2.39	0
46.5	-16.22	-36.75	-14	-2.22	0
46.6	-16.06	-36.59	-14	-2.06	0
46.7	-15.93	-36.45	-14	-1.93	0
46.8	-15.82	-36.35	-14	-1.82	0
46.9	-15.75	-36.28	-14	-1.75	0
47.0	-15.72	-36.24	-14	-1.72	0
47.1	-15.73	-36.26	-14	-1.73	0
47.2	-15.79	-36.31	-14	-1.79	0
47.3	-15.89	-36.42	-14	-1.89	0
47.4	-16.03	-36.56	-14	-2.03	0
47.5	-16.22	-36.75	-14	-2.22	0
47.6	-16.44	-36.97	-14	-2.44	0
47.7	-16.70	-37.23	-14	-2.70	0
47.8	-16.99	-37.51	-14	-2.99	0
47.9	-17.29	-37.82	-14	-3.29	0
48.0	-17.61	-38.14	-14	-3.61	0
48.1	-17.94	-38.46	-14	-3.94	0
48.2	-18.26	-38.78	-14	-4.26	0
48.3	-18.56	-39.09	-14	-4.56	0
48.4	-18.85	-39.38	-14	-4.85	0
48.5	-19.12	-39.64	-14	-5.12	0
48.6	-19.35	-39.88	-14	-5.35	0
48.7	-19.57	-40.09	-14	-5.57	0
48.8	-19.75	-40.28	-14	-5.75	0
48.9	-19.93	-40.45	-14	-5.93	0
49.0	-20.08	-40.61	-14	-6.08	0
49.1	-20.23	-40.76	-14	-6.23	0

49.2	-20.38	-40.91	-14	-6.38	0
49.3	-20.53	-41.06	-14	-6.53	0
49.4	-20.68	-41.21	-14	-6.68	0
49.5	-20.82	-41.35	-14	-6.82	0
49.6	-20.95	-41.48	-14	-6.95	0
49.7	-21.06	-41.59	-14	-7.06	0
49.8	-21.12	-41.65	-14	-7.12	0
49.9	-21.14	-41.66	-14	-7.14	0
50.0	-21.08	-41.61	-14	-7.08	0
50.1	-20.95	-41.48	-14	-6.95	0
50.2	-20.74	-41.26	-14	-6.74	0
50.3	-20.45	-40.98	-14	-6.45	0
50.4	-20.10	-40.62	-14	-6.10	0
50.5	-19.69	-40.22	-14	-5.69	0
50.6	-19.26	-39.79	-14	-5.26	0
50.7	-18.81	-39.34	-14	-4.81	0
50.8	-18.36	-38.89	-14	-4.36	0
50.9	-17.92	-38.45	-14	-3.92	0
51.0	-17.50	-38.03	-14	-3.50	0
51.1	-17.11	-37.63	-14	-3.11	0
51.2	-16.74	-37.27	-14	-2.74	0
51.3	-16.41	-36.94	-14	-2.41	0
51.4	-16.11	-36.64	-14	-2.11	0
51.5	-15.85	-36.38	-14	-1.85	0
51.6	-15.62	-36.15	-14	-1.62	0
51.7	-15.43	-35.96	-14	-1.43	0
51.8	-15.28	-35.81	-14	-1.28	0
51.9	-15.16	-35.69	-14	-1.16	0
52.0	-15.08	-35.60	-14	-1.08	0
52.1	-15.02	-35.55	-14	-1.02	0
52.2	-15.01	-35.53	-14	-1.01	0
52.3	-15.02	-35.55	-14	-1.02	0
52.4	-15.07	-35.60	-14	-1.07	0
52.5	-15.14	-35.67	-14	-1.14	0
52.6	-15.25	-35.78	-14	-1.25	0
52.7	-15.39	-35.91	-14	-1.39	0
52.8	-15.55	-36.08	-14	-1.55	0
52.9	-15.74	-36.27	-14	-1.74	0
53.0	-15.95	-36.48	-14	-1.95	0
53.1	-16.19	-36.72	-14	-2.19	0
53.2	-16.44	-36.97	-14	-2.44	0
53.3	-16.71	-37.24	-14	-2.71	0
53.4	-16.99	-37.52	-14	-2.99	0
53.5	-17.28	-37.81	-14	-3.28	0
53.6	-17.56	-38.09	-14	-3.56	0
53.7	-17.83	-38.36	-14	-3.83	0
53.8	-18.08	-38.61	-14	-4.08	0
53.9	-18.31	-38.83	-14	-4.31	0
54.0	-18.49	-39.02	-14	-4.49	0
54.1	-18.62	-39.15	-14	-4.62	0

54.2	-18.70	-39.23	-14	-4.70	0
54.3	-18.73	-39.26	-14	-4.73	0
54.4	-18.70	-39.23	-14	-4.70	0
54.5	-18.62	-39.15	-14	-4.62	0
54.6	-18.50	-39.03	-14	-4.50	0
54.7	-18.34	-38.87	-14	-4.34	0
54.8	-18.16	-38.68	-14	-4.16	0
54.9	-17.96	-38.49	-14	-3.96	0
55.0	-17.76	-38.28	-14	-3.76	0
55.1	-17.55	-38.08	-14	-3.55	0
55.2	-17.36	-37.88	-14	-3.36	0
55.3	-17.17	-37.70	-14	-3.17	0
55.4	-17.00	-37.53	-14	-3.00	0
55.5	-16.85	-37.38	-14	-2.85	0
55.6	-16.72	-37.25	-14	-2.72	0
55.7	-16.60	-37.13	-14	-2.60	0
55.8	-16.51	-37.04	-14	-2.51	0
55.9	-16.44	-36.96	-14	-2.44	0
56.0	-16.38	-36.91	-14	-2.38	0
56.1	-16.34	-36.87	-14	-2.34	0
56.2	-16.32	-36.85	-14	-2.32	0
56.3	-16.32	-36.84	-14	-2.32	0
56.4	-16.32	-36.85	-14	-2.32	0
56.5	-16.34	-36.87	-14	-2.34	0
56.6	-16.37	-36.89	-14	-2.37	0
56.7	-16.40	-36.93	-14	-2.40	0
56.8	-16.44	-36.97	-14	-2.44	0
56.9	-16.48	-37.01	-14	-2.48	0
57.0	-16.53	-37.06	-14	-2.53	0
57.1	-16.57	-37.10	-14	-2.57	0
57.2	-16.62	-37.15	-14	-2.62	0
57.3	-16.67	-37.19	-14	-2.67	0
57.4	-16.71	-37.24	-14	-2.71	0
57.5	-16.75	-37.28	-14	-2.75	0
57.6	-16.79	-37.32	-14	-2.79	0
57.7	-16.83	-37.35	-14	-2.83	0
57.8	-16.86	-37.38	-14	-2.86	0
57.9	-16.88	-37.41	-14	-2.88	0
58.0	-16.90	-37.43	-14	-2.90	0
58.1	-16.91	-37.43	-14	-2.91	0
58.2	-16.90	-37.43	-14	-2.90	0
58.3	-16.89	-37.42	-14	-2.89	0
58.4	-16.86	-37.39	-14	-2.86	0
58.5	-16.81	-37.34	-14	-2.81	0
58.6	-16.74	-37.27	-14	-2.74	0
58.7	-16.65	-37.18	-14	-2.65	0
58.8	-16.53	-37.06	-14	-2.53	0
58.9	-16.39	-36.92	-14	-2.39	0
59.0	-16.22	-36.75	-14	-2.22	0
59.1	-16.03	-36.56	-14	-2.03	0

59.2	-15.82	-36.35	-14	-1.82	0
59.3	-15.59	-36.12	-14	-1.59	0
59.4	-15.34	-35.87	-14	-1.34	0
59.5	-15.08	-35.61	-14	-1.08	0
59.6	-14.82	-35.35	-14	-0.82	0
59.7	-14.55	-35.08	-14	-0.55	0
59.8	-14.28	-34.81	-14	-0.28	0
59.9	-14.01	-34.54	-14	-0.01	0
60.0	-13.76	-34.28	-14	0.24	0
60.1	-13.51	-34.04	-14	0.49	0
60.2	-13.27	-33.80	-14	0.73	0
60.3	-13.05	-33.58	-14	0.95	0
60.4	-12.84	-33.37	-14	1.16	0
60.5	-12.66	-33.18	-14	1.34	0
60.6	-12.49	-33.01	-14	1.51	0
60.7	-12.34	-32.86	-14	1.66	0
60.8	-12.21	-32.73	-14	1.79	0
60.9	-12.10	-32.62	-14	1.90	0
61.0	-12.01	-32.54	-14	1.99	0
61.1	-11.94	-32.47	-14	2.06	0
61.2	-11.89	-32.42	-14	2.11	0
61.3	-11.87	-32.40	-14	2.13	0
61.4	-11.87	-32.39	-14	2.13	0
61.5	-11.88	-32.41	-14	2.12	0
61.6	-11.92	-32.45	-14	2.08	0
61.7	-11.98	-32.51	-14	2.02	0
61.8	-12.06	-32.58	-14	1.94	0
61.9	-12.15	-32.68	-14	1.85	0
62.0	-12.27	-32.80	-14	1.73	0
62.1	-12.40	-32.93	-14	1.60	0
62.2	-12.55	-33.08	-14	1.45	0
62.3	-12.72	-33.25	-14	1.28	0
62.4	-12.90	-33.43	-14	1.10	0
62.5	-13.10	-33.63	-14	0.90	0
62.6	-13.31	-33.84	-14	0.69	0
62.7	-13.53	-34.06	-14	0.47	0
62.8	-13.76	-34.29	-14	0.24	0
62.9	-14.00	-34.52	-14	0.00	0
63.0	-14.24	-34.77	-14	-0.24	0
63.1	-14.49	-35.01	-14	-0.49	0
63.2	-14.74	-35.26	-14	-0.74	0
63.3	-14.98	-35.51	-14	-0.98	0
63.4	-15.23	-35.76	-14	-1.23	0
63.5	-15.46	-35.99	-14	-1.46	0
63.6	-15.69	-36.22	-14	-1.69	0
63.7	-15.91	-36.44	-14	-1.91	0
63.8	-16.11	-36.64	-14	-2.11	0
63.9	-16.29	-36.82	-14	-2.29	0
64.0	-16.45	-36.98	-14	-2.45	0
64.1	-16.59	-37.12	-14	-2.59	0

64.2	-16.70	-37.23	-14	-2.70	0
64.3	-16.79	-37.32	-14	-2.79	0
64.4	-16.85	-37.38	-14	-2.85	0
64.5	-16.88	-37.40	-14	-2.88	0
64.6	-16.88	-37.41	-14	-2.88	0
64.7	-16.85	-37.38	-14	-2.85	0
64.8	-16.79	-37.32	-14	-2.79	0
64.9	-16.71	-37.24	-14	-2.71	0
65.0	-16.61	-37.13	-14	-2.61	0
65.1	-16.48	-37.01	-14	-2.48	0
65.2	-16.33	-36.86	-14	-2.33	0
65.3	-16.16	-36.69	-14	-2.16	0
65.4	-15.98	-36.51	-14	-1.98	0
65.5	-15.79	-36.32	-14	-1.79	0
65.6	-15.59	-36.12	-14	-1.59	0
65.7	-15.38	-35.91	-14	-1.38	0
65.8	-15.17	-35.70	-14	-1.17	0
65.9	-14.95	-35.48	-14	-0.95	0
66.0	-14.74	-35.27	-14	-0.74	0
66.1	-14.52	-35.05	-14	-0.52	0
66.2	-14.31	-34.84	-14	-0.31	0
66.3	-14.11	-34.64	-14	-0.11	0
66.4	-13.91	-34.44	-14	0.09	0
66.5	-13.71	-34.24	-14	0.29	0
66.6	-13.53	-34.06	-14	0.47	0
66.7	-13.35	-33.88	-14	0.65	0
66.8	-13.19	-33.72	-14	0.81	0
66.9	-13.03	-33.56	-14	0.97	0
67.0	-12.89	-33.41	-14	1.11	0
67.1	-12.75	-33.28	-14	1.25	0
67.2	-12.63	-33.16	-14	1.37	0
67.3	-12.52	-33.05	-14	1.48	0
67.4	-12.42	-32.95	-14	1.58	0
67.5	-12.33	-32.86	-14	1.67	0
67.6	-12.26	-32.78	-14	1.74	0
67.7	-12.19	-32.72	-14	1.81	0
67.8	-12.14	-32.67	-14	1.86	0
67.9	-12.10	-32.63	-14	1.90	0
68.0	-12.07	-32.60	-14	1.93	0
68.1	-12.06	-32.59	-14	1.94	0
68.2	-12.06	-32.58	-14	1.94	0
68.3	-12.06	-32.59	-14	1.94	0
68.4	-12.08	-32.61	-14	1.92	0
68.5	-12.11	-32.64	-14	1.89	0
68.6	-12.15	-32.68	-14	1.85	0
68.7	-12.21	-32.73	-14	1.79	0
68.8	-12.27	-32.80	-14	1.73	0
68.9	-12.34	-32.87	-14	1.66	0
69.0	-12.43	-32.95	-14	1.57	0
69.1	-12.52	-33.05	-14	1.48	0

69.2	-12.62	-33.15	-14	1.38	0
69.3	-12.73	-33.26	-14	1.27	0
69.4	-12.86	-33.38	-14	1.14	0
69.5	-12.99	-33.51	-14	1.01	0
69.6	-13.12	-33.65	-14	0.88	0
69.7	-13.27	-33.80	-14	0.73	0
69.8	-13.43	-33.95	-14	0.57	0
69.9	-13.59	-34.12	-14	0.41	0
70.0	-13.76	-34.29	-14	0.24	0
70.1	-13.93	-34.46	-14	0.07	0
70.2	-14.12	-34.64	-14	-0.12	0
70.3	-14.31	-34.83	-14	-0.31	0
70.4	-14.50	-35.03	-14	-0.50	0
70.5	-14.70	-35.23	-14	-0.70	0
70.6	-14.90	-35.43	-14	-0.90	0
70.7	-15.11	-35.64	-14	-1.11	0
70.8	-15.33	-35.85	-14	-1.33	0
70.9	-15.54	-36.07	-14	-1.54	0
71.0	-15.76	-36.29	-14	-1.76	0
71.1	-15.98	-36.51	-14	-1.98	0
71.2	-16.21	-36.74	-14	-2.21	0
71.3	-16.43	-36.96	-14	-2.43	0
71.4	-16.66	-37.19	-14	-2.66	0
71.5	-16.89	-37.42	-14	-2.89	0
71.6	-17.12	-37.65	-14	-3.12	0
71.7	-17.35	-37.88	-14	-3.35	0
71.8	-17.58	-38.11	-14	-3.58	0
71.9	-17.80	-38.33	-14	-3.80	0
72.0	-18.03	-38.56	-14	-4.03	0
72.1	-18.25	-38.78	-14	-4.25	0
72.2	-18.47	-39.00	-14	-4.47	0
72.3	-18.69	-39.21	-14	-4.69	0
72.4	-18.89	-39.42	-14	-4.89	0
72.5	-19.09	-39.62	-14	-5.09	0
72.6	-19.28	-39.81	-14	-5.28	0
72.7	-19.46	-39.99	-14	-5.46	0
72.8	-19.62	-40.15	-14	-5.62	0
72.9	-19.77	-40.29	-14	-5.77	0
73.0	-19.89	-40.42	-14	-5.89	0
73.1	-19.99	-40.52	-14	-5.99	0
73.2	-20.06	-40.59	-14	-6.06	0
73.3	-20.10	-40.63	-14	-6.10	0
73.4	-20.11	-40.63	-14	-6.11	0
73.5	-20.08	-40.61	-14	-6.08	0
73.6	-20.02	-40.54	-14	-6.02	0
73.7	-19.92	-40.44	-14	-5.92	0
73.8	-19.78	-40.31	-14	-5.78	0
73.9	-19.61	-40.14	-14	-5.61	0
74.0	-19.41	-39.94	-14	-5.41	0
74.1	-19.19	-39.71	-14	-5.19	0

74.2	-18.93	-39.46	-14	-4.93	0
74.3	-18.66	-39.19	-14	-4.66	0
74.4	-18.37	-38.90	-14	-4.37	0
74.5	-18.07	-38.60	-14	-4.07	0
74.6	-17.76	-38.29	-14	-3.76	0
74.7	-17.45	-37.98	-14	-3.45	0
74.8	-17.13	-37.66	-14	-3.13	0
74.9	-16.81	-37.34	-14	-2.81	0
75.0	-16.50	-37.03	-14	-2.50	0
75.1	-16.19	-36.71	-14	-2.19	0
75.2	-15.88	-36.41	-14	-1.88	0
75.3	-15.58	-36.11	-14	-1.58	0
75.4	-15.29	-35.82	-14	-1.29	0
75.5	-15.01	-35.53	-14	-1.01	0
75.6	-14.73	-35.26	-14	-0.73	0
75.7	-14.47	-34.99	-14	-0.47	0
75.8	-14.21	-34.74	-14	-0.21	0
75.9	-13.97	-34.49	-14	0.03	0
76.0	-13.73	-34.26	-14	0.27	0
76.1	-13.51	-34.04	-14	0.49	0
76.2	-13.29	-33.82	-14	0.71	0
76.3	-13.09	-33.62	-14	0.91	0
76.4	-12.90	-33.43	-14	1.10	0
76.5	-12.71	-33.24	-14	1.29	0
76.6	-12.54	-33.07	-14	1.46	0
76.7	-12.38	-32.91	-14	1.62	0
76.8	-12.22	-32.75	-14	1.78	0
76.9	-12.08	-32.61	-14	1.92	0
77.0	-11.94	-32.47	-14	2.06	0
77.1	-11.82	-32.35	-14	2.18	0
77.2	-11.70	-32.23	-14	2.30	0
77.3	-11.59	-32.12	-14	2.41	0
77.4	-11.49	-32.01	-14	2.51	0
77.5	-11.39	-31.92	-14	2.61	0
77.6	-11.30	-31.83	-14	2.70	0
77.7	-11.22	-31.75	-14	2.78	0
77.8	-11.15	-31.68	-14	2.85	0
77.9	-11.08	-31.61	-14	2.92	0
78.0	-11.02	-31.55	-14	2.98	0
78.1	-10.96	-31.49	-14	3.04	0
78.2	-10.91	-31.44	-14	3.09	0
78.3	-10.87	-31.40	-14	3.13	0
78.4	-10.83	-31.36	-14	3.17	0
78.5	-10.79	-31.32	-14	3.21	0
78.6	-10.76	-31.29	-14	3.24	0
78.7	-10.73	-31.26	-14	3.27	0
78.8	-10.70	-31.23	-14	3.30	0
78.9	-10.68	-31.21	-14	3.32	0
79.0	-10.66	-31.19	-14	3.34	0
79.1	-10.64	-31.17	-14	3.36	0

79.2	-10.62	-31.15	-14	3.38	0
79.3	-10.61	-31.14	-14	3.39	0
79.4	-10.60	-31.12	-14	3.40	0
79.5	-10.58	-31.11	-14	3.42	0
79.6	-10.57	-31.10	-14	3.43	0
79.7	-10.57	-31.09	-14	3.43	0
79.8	-10.56	-31.09	-14	3.44	0
79.9	-10.55	-31.08	-14	3.45	0
80.0	-10.54	-31.07	-14	3.46	0
80.1	-10.54	-31.07	-14	3.46	0
80.2	-10.53	-31.06	-14	3.47	0
80.3	-10.53	-31.06	-14	3.47	0
80.4	-10.52	-31.05	-14	3.48	0
80.5	-10.52	-31.05	-14	3.48	0
80.6	-10.52	-31.05	-14	3.48	0
80.7	-10.51	-31.04	-14	3.49	0
80.8	-10.51	-31.04	-14	3.49	0
80.9	-10.51	-31.04	-14	3.49	0
81.0	-10.51	-31.04	-14	3.49	0
81.1	-10.51	-31.04	-14	3.49	0
81.2	-10.52	-31.04	-14	3.48	0
81.3	-10.52	-31.05	-14	3.48	0
81.4	-10.53	-31.05	-14	3.47	0
81.5	-10.53	-31.06	-14	3.47	0
81.6	-10.54	-31.07	-14	3.46	0
81.7	-10.55	-31.08	-14	3.45	0
81.8	-10.57	-31.09	-14	3.43	0
81.9	-10.58	-31.11	-14	3.42	0
82.0	-10.60	-31.13	-14	3.40	0
82.1	-10.62	-31.15	-14	3.38	0
82.2	-10.64	-31.17	-14	3.36	0
82.3	-10.67	-31.20	-14	3.33	0
82.4	-10.70	-31.23	-14	3.30	0
82.5	-10.73	-31.26	-14	3.27	0
82.6	-10.76	-31.29	-14	3.24	0
82.7	-10.80	-31.33	-14	3.20	0
82.8	-10.84	-31.37	-14	3.16	0
82.9	-10.89	-31.42	-14	3.11	0
83.0	-10.94	-31.47	-14	3.06	0
83.1	-10.99	-31.52	-14	3.01	0
83.2	-11.04	-31.57	-14	2.96	0
83.3	-11.10	-31.63	-14	2.90	0
83.4	-11.16	-31.69	-14	2.84	0
83.5	-11.23	-31.76	-14	2.77	0
83.6	-11.29	-31.82	-14	2.71	0
83.7	-11.37	-31.89	-14	2.63	0
83.8	-11.44	-31.97	-14	2.56	0
83.9	-11.51	-32.04	-14	2.49	0
84.0	-11.59	-32.12	-14	2.41	0
84.1	-11.67	-32.20	-14	2.33	0

84.2	-11.76	-32.29	-14	2.24	0
84.3	-11.84	-32.37	-14	2.16	0
84.4	-11.93	-32.46	-14	2.07	0
84.5	-12.02	-32.54	-14	1.98	0
84.6	-12.10	-32.63	-14	1.90	0
84.7	-12.19	-32.72	-14	1.81	0
84.8	-12.28	-32.81	-14	1.72	0
84.9	-12.37	-32.90	-14	1.63	0
85.0	-12.46	-32.99	-14	1.54	0
85.1	-12.55	-33.07	-14	1.45	0
85.2	-12.63	-33.16	-14	1.37	0
85.3	-12.72	-33.24	-14	1.28	0
85.4	-12.80	-33.32	-14	1.20	0
85.5	-12.88	-33.40	-14	1.12	0
85.6	-12.95	-33.48	-14	1.05	0
85.7	-13.02	-33.55	-14	0.98	0
85.8	-13.09	-33.62	-14	0.91	0
85.9	-13.16	-33.69	-14	0.84	0
86.0	-13.22	-33.75	-14	0.78	0
86.1	-13.28	-33.81	-14	0.72	0
86.2	-13.33	-33.86	-14	0.67	0
86.3	-13.38	-33.91	-14	0.62	0
86.4	-13.42	-33.95	-14	0.58	0
86.5	-13.46	-33.99	-14	0.54	0
86.6	-13.50	-34.03	-14	0.50	0
86.7	-13.53	-34.06	-14	0.47	0
86.8	-13.56	-34.09	-14	0.44	0
86.9	-13.59	-34.12	-14	0.41	0
87.0	-13.61	-34.14	-14	0.39	0
87.1	-13.63	-34.16	-14	0.37	0
87.2	-13.65	-34.18	-14	0.35	0
87.3	-13.67	-34.20	-14	0.33	0
87.4	-13.69	-34.22	-14	0.31	0
87.5	-13.70	-34.23	-14	0.30	0
87.6	-13.72	-34.25	-14	0.28	0
87.7	-13.74	-34.27	-14	0.26	0
87.8	-13.76	-34.29	-14	0.24	0
87.9	-13.78	-34.31	-14	0.22	0
88.0	-13.80	-34.33	-14	0.20	0
88.1	-13.83	-34.36	-14	0.17	0
88.2	-13.86	-34.39	-14	0.14	0
88.3	-13.89	-34.42	-14	0.11	0
88.4	-13.93	-34.46	-14	0.07	0
88.5	-13.97	-34.50	-14	0.03	0
88.6	-14.02	-34.55	-14	-0.02	0
88.7	-14.07	-34.60	-14	-0.07	0
88.8	-14.12	-34.65	-14	-0.12	0
88.9	-14.19	-34.71	-14	-0.19	0
89.0	-14.25	-34.78	-14	-0.25	0
89.1	-14.33	-34.85	-14	-0.33	0

89.2	-14.41	-34.93	-14	-0.41	0
89.3	-14.49	-35.02	-14	-0.49	0
89.4	-14.58	-35.11	-14	-0.58	0
89.5	-14.68	-35.20	-14	-0.68	0
89.6	-14.78	-35.30	-14	-0.78	0
89.7	-14.88	-35.41	-14	-0.88	0
89.8	-14.99	-35.52	-14	-0.99	0
89.9	-15.11	-35.64	-14	-1.11	0
90.0	-15.23	-35.76	-14	-1.23	0
90.1	-15.36	-35.88	-14	-1.36	0
90.2	-15.48	-36.01	-14	-1.48	0
90.3	-15.61	-36.14	-14	-1.61	0
90.4	-15.75	-36.27	-14	-1.75	0
90.5	-15.88	-36.41	-14	-1.88	0
90.6	-16.01	-36.54	-14	-2.01	0
90.7	-16.14	-36.67	-14	-2.14	0
90.8	-16.27	-36.80	-14	-2.27	0
90.9	-16.40	-36.93	-14	-2.40	0
91.0	-16.52	-37.05	-14	-2.52	0
91.1	-16.64	-37.17	-14	-2.64	0
91.2	-16.75	-37.28	-14	-2.75	0
91.3	-16.85	-37.38	-14	-2.85	0
91.4	-16.94	-37.47	-14	-2.94	0
91.5	-17.03	-37.56	-14	-3.03	0
91.6	-17.10	-37.63	-14	-3.10	0
91.7	-17.17	-37.70	-14	-3.17	0
91.8	-17.22	-37.75	-14	-3.22	0
91.9	-17.26	-37.79	-14	-3.26	0
92.0	-17.29	-37.82	-14	-3.29	0
92.1	-17.31	-37.84	-14	-3.31	0
92.2	-17.32	-37.85	-14	-3.32	0
92.3	-17.33	-37.85	-14	-3.33	0
92.4	-17.32	-37.85	-14	-3.32	0
92.5	-17.31	-37.83	-14	-3.31	0
92.6	-17.29	-37.82	-14	-3.29	0
92.7	-17.26	-37.79	-14	-3.26	0
92.8	-17.24	-37.77	-14	-3.24	0
92.9	-17.21	-37.74	-14	-3.21	0
93.0	-17.18	-37.71	-14	-3.18	0
93.1	-17.16	-37.68	-14	-3.16	0
93.2	-17.13	-37.66	-14	-3.13	0
93.3	-17.11	-37.64	-14	-3.11	0
93.4	-17.09	-37.62	-14	-3.09	0
93.5	-17.08	-37.61	-14	-3.08	0
93.6	-17.08	-37.61	-14	-3.08	0
93.7	-17.08	-37.61	-14	-3.08	0
93.8	-17.09	-37.62	-14	-3.09	0
93.9	-17.11	-37.64	-14	-3.11	0
94.0	-17.14	-37.67	-14	-3.14	0
94.1	-17.18	-37.71	-14	-3.18	0

94.2	-17.23	-37.76	-14	-3.23	0
94.3	-17.29	-37.82	-14	-3.29	0
94.4	-17.36	-37.89	-14	-3.36	0
94.5	-17.45	-37.97	-14	-3.45	0
94.6	-17.54	-38.07	-14	-3.54	0
94.7	-17.65	-38.17	-14	-3.65	0
94.8	-17.76	-38.29	-14	-3.76	0
94.9	-17.89	-38.42	-14	-3.89	0
95.0	-18.03	-38.56	-14	-4.03	0
95.1	-18.18	-38.71	-14	-4.18	0
95.2	-18.34	-38.87	-14	-4.34	0
95.3	-18.51	-39.03	-14	-4.51	0
95.4	-18.68	-39.21	-14	-4.68	0
95.5	-18.86	-39.39	-14	-4.86	0
95.6	-19.05	-39.58	-14	-5.05	0
95.7	-19.24	-39.77	-14	-5.24	0
95.8	-19.44	-39.96	-14	-5.44	0
95.9	-19.63	-40.16	-14	-5.63	0
96.0	-19.82	-40.34	-14	-5.82	0
96.1	-20.00	-40.53	-14	-6.00	0
96.2	-20.17	-40.70	-14	-6.17	0
96.3	-20.33	-40.86	-14	-6.33	0
96.4	-20.47	-41.00	-14	-6.47	0
96.5	-20.59	-41.12	-14	-6.59	0
96.6	-20.70	-41.22	-14	-6.70	0
96.7	-20.77	-41.30	-14	-6.77	0
96.8	-20.83	-41.36	-14	-6.83	0
96.9	-20.86	-41.38	-14	-6.86	0
97.0	-20.86	-41.39	-14	-6.86	0
97.1	-20.84	-41.37	-14	-6.84	0
97.2	-20.80	-41.33	-14	-6.80	0
97.3	-20.74	-41.26	-14	-6.74	0
97.4	-20.66	-41.19	-14	-6.66	0
97.5	-20.57	-41.10	-14	-6.57	0
97.6	-20.47	-41.00	-14	-6.47	0
97.7	-20.36	-40.89	-14	-6.36	0
97.8	-20.26	-40.78	-14	-6.26	0
97.9	-20.15	-40.68	-14	-6.15	0
98.0	-20.05	-40.57	-14	-6.05	0
98.1	-19.95	-40.48	-14	-5.95	0
98.2	-19.86	-40.39	-14	-5.86	0
98.3	-19.78	-40.31	-14	-5.78	0
98.4	-19.71	-40.24	-14	-5.71	0
98.5	-19.66	-40.19	-14	-5.66	0
98.6	-19.62	-40.15	-14	-5.62	0
98.7	-19.60	-40.12	-14	-5.60	0
98.8	-19.59	-40.12	-14	-5.59	0
98.9	-19.60	-40.13	-14	-5.60	0
99.0	-19.63	-40.16	-14	-5.63	0
99.1	-19.68	-40.21	-14	-5.68	0

99.2	-19.75	-40.28	-14	-5.75	0
99.3	-19.84	-40.37	-14	-5.84	0
99.4	-19.95	-40.48	-14	-5.95	0
99.5	-20.08	-40.61	-14	-6.08	0
99.6	-20.23	-40.76	-14	-6.23	0
99.7	-20.40	-40.93	-14	-6.40	0
99.8	-20.59	-41.12	-14	-6.59	0
99.9	-20.81	-41.33	-14	-6.81	0
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100.4	-22.12	-42.65	-14	-8.12	0
100.5	-22.42	-42.94	-14	-8.42	0
100.6	-22.71	-43.24	-14	-8.71	0
100.7	-23.00	-43.53	-14	-9.00	0
100.8	-23.28	-43.81	-14	-9.28	0
100.9	-23.54	-44.06	-14	-9.54	0
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101.1	-23.94	-44.47	-14	-9.94	0
101.2	-24.08	-44.61	-14	-10.08	0
101.3	-24.16	-44.69	-14	-10.16	0
101.4	-24.19	-44.71	-14	-10.19	0
101.5	-24.15	-44.68	-14	-10.15	0
101.6	-24.06	-44.59	-14	-10.06	0
101.7	-23.92	-44.45	-14	-9.92	0
101.8	-23.75	-44.28	-14	-9.75	0
101.9	-23.54	-44.07	-14	-9.54	0
102.0	-23.31	-43.84	-14	-9.31	0
102.1	-23.08	-43.60	-14	-9.08	0
102.2	-22.83	-43.36	-14	-8.83	0
102.3	-22.60	-43.12	-14	-8.60	0
102.4	-22.37	-42.89	-14	-8.37	0
102.5	-22.15	-42.68	-14	-8.15	0
102.6	-21.95	-42.48	-14	-7.95	0
102.7	-21.78	-42.30	-14	-7.78	0
102.8	-21.62	-42.15	-14	-7.62	0
102.9	-21.49	-42.02	-14	-7.49	0
103.0	-21.39	-41.92	-14	-7.39	0
103.1	-21.31	-41.84	-14	-7.31	0
103.2	-21.26	-41.79	-14	-7.26	0
103.3	-21.24	-41.77	-14	-7.24	0
103.4	-21.25	-41.78	-14	-7.25	0
103.5	-21.29	-41.82	-14	-7.29	0
103.6	-21.36	-41.89	-14	-7.36	0
103.7	-21.46	-41.99	-14	-7.46	0
103.8	-21.60	-42.13	-14	-7.60	0
103.9	-21.76	-42.29	-14	-7.76	0
104.0	-21.96	-42.49	-14	-7.96	0
104.1	-22.19	-42.72	-14	-8.19	0

104.2	-22.45	-42.98	-14	-8.45	0
104.3	-22.75	-43.28	-14	-8.75	0
104.4	-23.07	-43.60	-14	-9.07	0
104.5	-23.42	-43.95	-14	-9.42	0
104.6	-23.80	-44.33	-14	-9.80	0
104.7	-24.20	-44.72	-14	-10.20	0
104.8	-24.60	-45.13	-14	-10.60	0
104.9	-25.01	-45.54	-14	-11.01	0
105.0	-25.41	-45.93	-14	-11.41	0
105.1	-25.77	-46.30	-14	-11.77	0
105.2	-26.08	-46.61	-14	-12.08	0
105.3	-26.32	-46.85	-14	-12.32	0
105.4	-26.47	-47.00	-14	-12.47	0
105.5	-26.52	-47.04	-14	-12.52	0
105.6	-26.45	-46.98	-14	-12.45	0
105.7	-26.29	-46.82	-14	-12.29	0
105.8	-26.04	-46.57	-14	-12.04	0
105.9	-25.73	-46.25	-14	-11.73	0
106.0	-25.37	-45.90	-14	-11.37	0
106.1	-24.99	-45.52	-14	-10.99	0
106.2	-24.60	-45.13	-14	-10.60	0
106.3	-24.23	-44.75	-14	-10.23	0
106.4	-23.86	-44.39	-14	-9.86	0
106.5	-23.53	-44.06	-14	-9.53	0
106.6	-23.22	-43.75	-14	-9.22	0
106.7	-22.94	-43.47	-14	-8.94	0
106.8	-22.70	-43.23	-14	-8.70	0
106.9	-22.50	-43.03	-14	-8.50	0
107.0	-22.33	-42.86	-14	-8.33	0
107.1	-22.20	-42.73	-14	-8.20	0
107.2	-22.12	-42.64	-14	-8.12	0
107.3	-22.07	-42.59	-14	-8.07	0
107.4	-22.06	-42.58	-14	-8.06	0
107.5	-22.09	-42.61	-14	-8.09	0
107.6	-22.16	-42.68	-14	-8.16	0
107.7	-22.27	-42.80	-14	-8.27	0
107.8	-22.42	-42.95	-14	-8.42	0
107.9	-22.62	-43.15	-14	-8.62	0
108.0	-22.86	-43.39	-14	-8.86	0
108.1	-23.15	-43.67	-14	-9.15	0
108.2	-23.47	-44.00	-14	-9.47	0
108.3	-23.85	-44.38	-14	-9.85	0
108.4	-24.26	-44.79	-14	-10.26	0
108.5	-24.72	-45.25	-14	-10.72	0
108.6	-25.21	-45.74	-14	-11.21	0
108.7	-25.74	-46.26	-14	-11.74	0
108.8	-26.27	-46.80	-14	-12.27	0
108.9	-26.81	-47.33	-14	-12.81	0
109.0	-27.31	-47.84	-14	-13.31	0
109.1	-27.74	-48.27	-14	-13.74	0

109.2	-28.07	-48.60	-14	-14.07	0
109.3	-28.26	-48.79	-14	-14.26	0
109.4	-28.28	-48.81	-14	-14.28	0
109.5	-28.14	-48.67	-14	-14.14	0
109.6	-27.85	-48.38	-14	-13.85	0
109.7	-27.46	-47.98	-14	-13.46	0
109.8	-26.99	-47.52	-14	-12.99	0
109.9	-26.50	-47.02	-14	-12.50	0
110.0	-26.00	-46.53	-14	-12.00	0
110.1	-25.52	-46.04	-14	-11.52	0
110.2	-25.06	-45.59	-14	-11.06	0
110.3	-24.65	-45.18	-14	-10.65	0
110.4	-24.28	-44.81	-14	-10.28	0
110.5	-23.96	-44.49	-14	-9.96	0
110.6	-23.69	-44.21	-14	-9.69	0
110.7	-23.46	-43.99	-14	-9.46	0
110.8	-23.28	-43.81	-14	-9.28	0
110.9	-23.16	-43.69	-14	-9.16	0
111.0	-23.08	-43.61	-14	-9.08	0
111.1	-23.05	-43.58	-14	-9.05	0
111.2	-23.08	-43.60	-14	-9.08	0
111.3	-23.15	-43.68	-14	-9.15	0
111.4	-23.27	-43.80	-14	-9.27	0
111.5	-23.45	-43.97	-14	-9.45	0
111.6	-23.67	-44.20	-14	-9.67	0
111.7	-23.95	-44.48	-14	-9.95	0
111.8	-24.29	-44.82	-14	-10.29	0
111.9	-24.68	-45.21	-14	-10.68	0
112.0	-25.12	-45.65	-14	-11.12	0
112.1	-25.62	-46.15	-14	-11.62	0
112.2	-26.17	-46.70	-14	-12.17	0
112.3	-26.77	-47.29	-14	-12.77	0
112.4	-27.39	-47.92	-14	-13.39	0
112.5	-28.03	-48.55	-14	-14.03	0
112.6	-28.64	-49.16	-14	-14.64	0
112.7	-29.17	-49.70	-14	-15.17	0
112.8	-29.58	-50.11	-14	-15.58	0
112.9	-29.81	-50.34	-14	-15.81	0
113.0	-29.81	-50.34	-14	-15.81	0
113.1	-29.61	-50.13	-14	-15.61	0
113.2	-29.22	-49.75	-14	-15.22	0
113.3	-28.72	-49.25	-14	-14.72	0
113.4	-28.15	-48.68	-14	-14.15	0
113.5	-27.57	-48.10	-14	-13.57	0
113.6	-27.00	-47.53	-14	-13.00	0
113.7	-26.47	-47.00	-14	-12.47	0
113.8	-25.98	-46.51	-14	-11.98	0
113.9	-25.55	-46.07	-14	-11.55	0
114.0	-25.17	-45.69	-14	-11.17	0
114.1	-24.84	-45.37	-14	-10.84	0

114.2	-24.57	-45.10	-14	-10.57	0
114.3	-24.36	-44.89	-14	-10.36	0
114.4	-24.20	-44.73	-14	-10.20	0
114.5	-24.10	-44.63	-14	-10.10	0
114.6	-24.05	-44.58	-14	-10.05	0
114.7	-24.05	-44.58	-14	-10.05	0
114.8	-24.10	-44.63	-14	-10.10	0
114.9	-24.20	-44.73	-14	-10.20	0
115.0	-24.35	-44.88	-14	-10.35	0
115.1	-24.55	-45.08	-14	-10.55	0
115.2	-24.80	-45.33	-14	-10.80	0
115.3	-25.09	-45.62	-14	-11.09	0
115.4	-25.43	-45.96	-14	-11.43	0
115.5	-25.82	-46.34	-14	-11.82	0
115.6	-26.24	-46.77	-14	-12.24	0
115.7	-26.69	-47.22	-14	-12.69	0
115.8	-27.17	-47.69	-14	-13.17	0
115.9	-27.65	-48.18	-14	-13.65	0
116.0	-28.12	-48.65	-14	-14.12	0
116.1	-28.56	-49.08	-14	-14.56	0
116.2	-28.93	-49.46	-14	-14.93	0
116.3	-29.21	-49.73	-14	-15.21	0
116.4	-29.37	-49.90	-14	-15.37	0
116.5	-29.40	-49.93	-14	-15.40	0
116.6	-29.30	-49.83	-14	-15.30	0
116.7	-29.09	-49.62	-14	-15.09	0
116.8	-28.80	-49.33	-14	-14.80	0
116.9	-28.45	-48.98	-14	-14.45	0
117.0	-28.07	-48.60	-14	-14.07	0
117.1	-27.69	-48.21	-14	-13.69	0
117.2	-27.31	-47.84	-14	-13.31	0
117.3	-26.95	-47.48	-14	-12.95	0
117.4	-26.62	-47.15	-14	-12.62	0
117.5	-26.33	-46.85	-14	-12.33	0
117.6	-26.06	-46.59	-14	-12.06	0
117.7	-25.84	-46.37	-14	-11.84	0
117.8	-25.65	-46.18	-14	-11.65	0
117.9	-25.51	-46.03	-14	-11.51	0
118.0	-25.40	-45.92	-14	-11.40	0
118.1	-25.32	-45.85	-14	-11.32	0
118.2	-25.29	-45.82	-14	-11.29	0
118.3	-25.29	-45.82	-14	-11.29	0
118.4	-25.33	-45.85	-14	-11.33	0
118.5	-25.40	-45.93	-14	-11.40	0
118.6	-25.51	-46.04	-14	-11.51	0
118.7	-25.66	-46.19	-14	-11.66	0
118.8	-25.85	-46.38	-14	-11.85	0
118.9	-26.07	-46.60	-14	-12.07	0
119.0	-26.34	-46.86	-14	-12.34	0
119.1	-26.64	-47.17	-14	-12.64	0

119.2	-26.98	-47.51	-14	-12.98	0
119.3	-27.36	-47.89	-14	-13.36	0
119.4	-27.78	-48.30	-14	-13.78	0
119.5	-28.22	-48.75	-14	-14.22	0
119.6	-28.69	-49.22	-14	-14.69	0
119.7	-29.16	-49.69	-14	-15.16	0
119.8	-29.62	-50.15	-14	-15.62	0
119.9	-30.03	-50.56	-14	-16.03	0
120.0	-30.35	-50.88	-14	-16.35	0
120.1	-30.55	-51.08	-14	-16.55	0
120.2	-30.59	-51.12	-14	-16.59	0
120.3	-30.45	-50.98	-14	-16.45	0
120.4	-30.15	-50.68	-14	-16.15	0
120.5	-29.72	-50.25	-14	-15.72	0
120.6	-29.20	-49.73	-14	-15.20	0
120.7	-28.63	-49.16	-14	-14.63	0
120.8	-28.06	-48.58	-14	-14.06	0
120.9	-27.49	-48.02	-14	-13.49	0
121.0	-26.96	-47.49	-14	-12.96	0
121.1	-26.47	-47.00	-14	-12.47	0
121.2	-26.04	-46.57	-14	-12.04	0
121.3	-25.66	-46.19	-14	-11.66	0
121.4	-25.34	-45.87	-14	-11.34	0
121.5	-25.08	-45.61	-14	-11.08	0
121.6	-24.89	-45.42	-14	-10.89	0
121.7	-24.77	-45.30	-14	-10.77	0
121.8	-24.71	-45.24	-14	-10.71	0
121.9	-24.73	-45.26	-14	-10.73	0
122.0	-24.82	-45.35	-14	-10.82	0
122.1	-24.99	-45.52	-14	-10.99	0
122.2	-25.24	-45.77	-14	-11.24	0
122.3	-25.58	-46.11	-14	-11.58	0
122.4	-26.02	-46.55	-14	-12.02	0
122.5	-26.57	-47.10	-14	-12.57	0
122.6	-27.23	-47.76	-14	-13.23	0
122.7	-28.02	-48.55	-14	-14.02	0
122.8	-28.96	-49.48	-14	-14.96	0
122.9	-30.04	-50.56	-14	-16.04	0
123.0	-31.25	-51.77	-14	-17.25	0
123.1	-32.52	-53.05	-14	-18.52	0
123.2	-33.66	-54.19	-14	-19.66	0
123.3	-34.31	-54.84	-14	-20.31	0
123.4	-34.16	-54.69	-14	-20.16	0
123.5	-33.25	-53.78	-14	-19.25	0
123.6	-31.98	-52.50	-14	-17.98	0
123.7	-30.64	-51.17	-14	-16.64	0
123.8	-29.39	-49.92	-14	-15.39	0
123.9	-28.29	-48.82	-14	-14.29	0
124.0	-27.34	-47.87	-14	-13.34	0
124.1	-26.53	-47.06	-14	-12.53	0

124.2	-25.86	-46.39	-14	-11.86	0
124.3	-25.31	-45.84	-14	-11.31	0
124.4	-24.87	-45.40	-14	-10.87	0
124.5	-24.54	-45.07	-14	-10.54	0
124.6	-24.31	-44.84	-14	-10.31	0
124.7	-24.18	-44.71	-14	-10.18	0
124.8	-24.15	-44.68	-14	-10.15	0
124.9	-24.22	-44.75	-14	-10.22	0
125.0	-24.38	-44.91	-14	-10.38	0
125.1	-24.65	-45.17	-14	-10.65	0
125.2	-25.02	-45.55	-14	-11.02	0
125.3	-25.51	-46.03	-14	-11.51	0
125.4	-26.12	-46.64	-14	-12.12	0
125.5	-26.86	-47.39	-14	-12.86	0
125.6	-27.76	-48.29	-14	-13.76	0
125.7	-28.83	-49.35	-14	-14.83	0
125.8	-30.07	-50.60	-14	-16.07	0
125.9	-31.48	-52.01	-14	-17.48	0
126.0	-32.98	-53.51	-14	-18.98	0
126.1	-34.32	-54.85	-14	-20.32	0
126.2	-35.04	-55.57	-14	-21.04	0
126.3	-34.75	-55.28	-14	-20.75	0
126.4	-33.67	-54.20	-14	-19.67	0
126.5	-32.30	-52.82	-14	-18.30	0
126.6	-30.95	-51.48	-14	-16.95	0
126.7	-29.76	-50.29	-14	-15.76	0
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126.9	-27.91	-48.43	-14	-13.91	0
127.0	-27.22	-47.75	-14	-13.22	0
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127.2	-26.26	-46.78	-14	-12.26	0
127.3	-25.95	-46.48	-14	-11.95	0
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127.5	-25.65	-46.17	-14	-11.65	0
127.6	-25.63	-46.16	-14	-11.63	0
127.7	-25.70	-46.23	-14	-11.70	0
127.8	-25.84	-46.37	-14	-11.84	0
127.9	-26.06	-46.58	-14	-12.06	0
128.0	-26.33	-46.86	-14	-12.33	0
128.1	-26.65	-47.18	-14	-12.65	0
128.2	-27.02	-47.55	-14	-13.02	0
128.3	-27.41	-47.94	-14	-13.41	0
128.4	-27.82	-48.34	-14	-13.82	0
128.5	-28.22	-48.75	-14	-14.22	0
128.6	-28.60	-49.13	-14	-14.60	0
128.7	-28.94	-49.47	-14	-14.94	0
128.8	-29.25	-49.78	-14	-15.25	0
128.9	-29.52	-50.04	-14	-15.52	0
129.0	-29.75	-50.27	-14	-15.75	0
129.1	-29.95	-50.48	-14	-15.95	0

129.2	-30.14	-50.67	-14	-16.14	0
129.3	-30.33	-50.86	-14	-16.33	0
129.4	-30.53	-51.06	-14	-16.53	0
129.5	-30.73	-51.26	-14	-16.73	0
129.6	-30.93	-51.46	-14	-16.93	0
129.7	-31.09	-51.62	-14	-17.09	0
129.8	-31.18	-51.71	-14	-17.18	0
129.9	-31.15	-51.68	-14	-17.15	0
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130.1	-30.62	-51.15	-14	-16.62	0
130.2	-30.11	-50.64	-14	-16.11	0
130.3	-29.49	-50.01	-14	-15.49	0
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130.6	-27.40	-47.92	-14	-13.40	0
130.7	-26.76	-47.29	-14	-12.76	0
130.8	-26.19	-46.72	-14	-12.19	0
130.9	-25.70	-46.23	-14	-11.70	0
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131.4	-24.75	-45.28	-14	-10.75	0
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131.6	-25.20	-45.73	-14	-11.20	0
131.7	-25.64	-46.17	-14	-11.64	0
131.8	-26.26	-46.79	-14	-12.26	0
131.9	-27.09	-47.62	-14	-13.09	0
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132.2	-31.55	-52.08	-14	-17.55	0
132.3	-34.25	-54.78	-14	-20.25	0
132.4	-38.36	-58.89	-14	-24.36	0
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132.7	-36.97	-57.50	-14	-22.97	0
132.8	-33.13	-53.65	-14	-19.13	0
132.9	-30.49	-51.02	-14	-16.49	0
133.0	-28.54	-49.07	-14	-14.54	0
133.1	-27.04	-47.57	-14	-13.04	0
133.2	-25.88	-46.40	-14	-11.88	0
133.3	-24.96	-45.49	-14	-10.96	0
133.4	-24.26	-44.78	-14	-10.26	0
133.5	-23.73	-44.26	-14	-9.73	0
133.6	-23.37	-43.90	-14	-9.37	0
133.7	-23.16	-43.69	-14	-9.16	0
133.8	-23.09	-43.62	-14	-9.09	0
133.9	-23.17	-43.70	-14	-9.17	0
134.0	-23.39	-43.92	-14	-9.39	0
134.1	-23.76	-44.29	-14	-9.76	0

134.2	-24.30	-44.83	-14	-10.30	0
134.3	-25.02	-45.55	-14	-11.02	0
134.4	-25.95	-46.48	-14	-11.95	0
134.5	-27.14	-47.66	-14	-13.14	0
134.6	-28.65	-49.18	-14	-14.65	0
134.7	-30.61	-51.13	-14	-16.61	0
134.8	-33.21	-53.74	-14	-19.21	0
134.9	-36.84	-57.37	-14	-22.84	0
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135.2	-37.55	-58.08	-14	-23.55	0
135.3	-34.08	-54.61	-14	-20.08	0
135.4	-31.67	-52.19	-14	-17.67	0
135.5	-29.93	-50.46	-14	-15.93	0
135.6	-28.65	-49.18	-14	-14.65	0
135.7	-27.70	-48.23	-14	-13.70	0
135.8	-27.02	-47.55	-14	-13.02	0
135.9	-26.55	-47.08	-14	-12.55	0
136.0	-26.27	-46.80	-14	-12.27	0
136.1	-26.14	-46.67	-14	-12.14	0
136.2	-26.15	-46.68	-14	-12.15	0
136.3	-26.28	-46.81	-14	-12.28	0
136.4	-26.50	-47.03	-14	-12.50	0
136.5	-26.79	-47.32	-14	-12.79	0
136.6	-27.12	-47.65	-14	-13.12	0
136.7	-27.45	-47.98	-14	-13.45	0
136.8	-27.73	-48.26	-14	-13.73	0
136.9	-27.94	-48.47	-14	-13.94	0
137.0	-28.05	-48.58	-14	-14.05	0
137.1	-28.07	-48.59	-14	-14.07	0
137.2	-28.01	-48.54	-14	-14.01	0
137.3	-27.94	-48.47	-14	-13.94	0
137.4	-27.89	-48.42	-14	-13.89	0
137.5	-27.90	-48.43	-14	-13.90	0
137.6	-28.03	-48.56	-14	-14.03	0
137.7	-28.30	-48.83	-14	-14.30	0
137.8	-28.77	-49.29	-14	-14.77	0
137.9	-29.46	-49.99	-14	-15.46	0
138.0	-30.45	-50.98	-14	-16.45	0
138.1	-31.81	-52.34	-14	-17.81	0
138.2	-33.66	-54.19	-14	-19.66	0
138.3	-36.05	-56.58	-14	-22.05	0
138.4	-38.48	-59.01	-14	-24.48	0
138.5	-38.56	-59.08	-14	-24.56	0
138.6	-35.83	-56.36	-14	-21.83	0
138.7	-32.86	-53.38	-14	-18.86	0
138.8	-30.41	-50.94	-14	-16.41	0
138.9	-28.48	-49.00	-14	-14.48	0
139.0	-26.94	-47.47	-14	-12.94	0
139.1	-25.71	-46.24	-14	-11.71	0

139.2	-24.75	-45.27	-14	-10.75	0
139.3	-24.00	-44.53	-14	-10.00	0
139.4	-23.46	-43.98	-14	-9.46	0
139.5	-23.09	-43.62	-14	-9.09	0
139.6	-22.90	-43.43	-14	-8.90	0
139.7	-22.88	-43.41	-14	-8.88	0
139.8	-23.04	-43.57	-14	-9.04	0
139.9	-23.38	-43.91	-14	-9.38	0
140.0	-23.93	-44.45	-14	-9.93	0
140.1	-24.70	-45.23	-14	-10.70	0
140.2	-25.76	-46.29	-14	-11.76	0
140.3	-27.18	-47.71	-14	-13.18	0
140.4	-29.10	-49.63	-14	-15.10	0
140.5	-31.78	-52.31	-14	-17.78	0
140.6	-35.83	-56.36	-14	-21.83	0
140.7	-42.59	-63.12	-14	-28.59	0
140.8	-42.11	-62.64	-14	-28.11	0
140.9	-35.59	-56.12	-14	-21.59	0
141.0	-31.71	-52.23	-14	-17.71	0
141.1	-29.14	-49.67	-14	-15.14	0
141.2	-27.33	-47.86	-14	-13.33	0
141.3	-26.00	-46.53	-14	-12.00	0
141.4	-25.04	-45.56	-14	-11.04	0
141.5	-24.36	-44.88	-14	-10.36	0
141.6	-23.92	-44.44	-14	-9.92	0
141.7	-23.69	-44.22	-14	-9.69	0
141.8	-23.67	-44.20	-14	-9.67	0
141.9	-23.84	-44.37	-14	-9.84	0
142.0	-24.20	-44.73	-14	-10.20	0
142.1	-24.76	-45.29	-14	-10.76	0
142.2	-25.53	-46.06	-14	-11.53	0
142.3	-26.52	-47.05	-14	-12.52	0
142.4	-27.74	-48.27	-14	-13.74	0
142.5	-29.18	-49.71	-14	-15.18	0
142.6	-30.75	-51.28	-14	-16.75	0
142.7	-32.21	-52.74	-14	-18.21	0
142.8	-33.06	-53.59	-14	-19.06	0
142.9	-32.95	-53.48	-14	-18.95	0
143.0	-32.11	-52.64	-14	-18.11	0
143.1	-31.07	-51.60	-14	-17.07	0
143.2	-30.14	-50.67	-14	-16.14	0
143.3	-29.46	-49.98	-14	-15.46	0
143.4	-29.05	-49.57	-14	-15.05	0
143.5	-28.92	-49.45	-14	-14.92	0
143.6	-29.08	-49.61	-14	-15.08	0
143.7	-29.54	-50.07	-14	-15.54	0
143.8	-30.29	-50.82	-14	-16.29	0
143.9	-31.34	-51.86	-14	-17.34	0
144.0	-32.56	-53.08	-14	-18.56	0
144.1	-33.60	-54.12	-14	-19.60	0

144.2	-33.79	-54.32	-14	-19.79	0
144.3	-32.79	-53.32	-14	-18.79	0
144.4	-31.12	-51.64	-14	-17.12	0
144.5	-29.37	-49.90	-14	-15.37	0
144.6	-27.83	-48.36	-14	-13.83	0
144.7	-26.55	-47.08	-14	-12.55	0
144.8	-25.53	-46.06	-14	-11.53	0
144.9	-24.77	-45.29	-14	-10.77	0
145.0	-24.23	-44.76	-14	-10.23	0
145.1	-23.91	-44.44	-14	-9.91	0
145.2	-23.81	-44.34	-14	-9.81	0
145.3	-23.93	-44.46	-14	-9.93	0
145.4	-24.29	-44.82	-14	-10.29	0
145.5	-24.92	-45.45	-14	-10.92	0
145.6	-25.86	-46.38	-14	-11.86	0
145.7	-27.19	-47.72	-14	-13.19	0
145.8	-29.08	-49.61	-14	-15.08	0
145.9	-31.84	-52.37	-14	-17.84	0
146.0	-36.32	-56.85	-14	-22.32	0
146.1	-46.20	-66.73	-14	-32.20	0
146.2	-42.46	-62.99	-14	-28.46	0
146.3	-34.76	-55.29	-14	-20.76	0
146.4	-30.80	-51.33	-14	-16.80	0
146.5	-28.24	-48.77	-14	-14.24	0
146.6	-26.45	-46.98	-14	-12.45	0
146.7	-25.16	-45.69	-14	-11.16	0
146.8	-24.25	-44.77	-14	-10.25	0
146.9	-23.64	-44.17	-14	-9.64	0
147.0	-23.30	-43.83	-14	-9.30	0
147.1	-23.20	-43.73	-14	-9.20	0
147.2	-23.35	-43.88	-14	-9.35	0
147.3	-23.74	-44.27	-14	-9.74	0
147.4	-24.40	-44.93	-14	-10.40	0
147.5	-25.36	-45.89	-14	-11.36	0
147.6	-26.69	-47.22	-14	-12.69	0
147.7	-28.51	-49.04	-14	-14.51	0
147.8	-31.02	-51.55	-14	-17.02	0
147.9	-34.59	-55.12	-14	-20.59	0
148.0	-39.35	-59.87	-14	-25.35	0
148.1	-39.67	-60.20	-14	-25.67	0
148.2	-35.17	-55.70	-14	-21.17	0
148.3	-31.80	-52.33	-14	-17.80	0
148.4	-29.52	-50.05	-14	-15.52	0
148.5	-27.97	-48.49	-14	-13.97	0
148.6	-26.92	-47.45	-14	-12.92	0
148.7	-26.28	-46.81	-14	-12.28	0
148.8	-25.98	-46.51	-14	-11.98	0
148.9	-25.99	-46.52	-14	-11.99	0
149.0	-26.31	-46.84	-14	-12.31	0
149.1	-26.95	-47.47	-14	-12.95	0

149.2	-27.91	-48.44	-14	-13.91	0
149.3	-29.22	-49.75	-14	-15.22	0
149.4	-30.83	-51.36	-14	-16.83	0
149.5	-32.46	-52.99	-14	-18.46	0
149.6	-33.28	-53.81	-14	-19.28	0
149.7	-32.54	-53.07	-14	-18.54	0
149.8	-30.84	-51.37	-14	-16.84	0
149.9	-29.06	-49.59	-14	-15.06	0
150.0	-27.57	-48.09	-14	-13.57	0
150.1	-26.41	-46.94	-14	-12.41	0
150.2	-25.58	-46.11	-14	-11.58	0
150.3	-25.06	-45.59	-14	-11.06	0
150.4	-24.83	-45.36	-14	-10.83	0
150.5	-24.90	-45.43	-14	-10.90	0
150.6	-25.27	-45.80	-14	-11.27	0
150.7	-25.99	-46.52	-14	-11.99	0
150.8	-27.14	-47.67	-14	-13.14	0
150.9	-28.87	-49.39	-14	-14.87	0
151.0	-31.49	-52.01	-14	-17.49	0
151.1	-35.87	-56.40	-14	-21.87	0
151.2	-46.60	-67.13	-14	-32.60	0
151.3	-42.79	-63.32	-14	-28.79	0
151.4	-34.31	-54.84	-14	-20.31	0
151.5	-30.19	-50.71	-14	-16.19	0
151.6	-27.54	-48.07	-14	-13.54	0
151.7	-25.69	-46.22	-14	-11.69	0
151.8	-24.37	-44.90	-14	-10.37	0
151.9	-23.44	-43.97	-14	-9.44	0
152.0	-22.83	-43.36	-14	-8.83	0
152.1	-22.50	-43.03	-14	-8.50	0
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152.3	-22.63	-43.15	-14	-8.63	0
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152.6	-24.98	-45.50	-14	-10.98	0
152.7	-26.55	-47.08	-14	-12.55	0
152.8	-28.77	-49.30	-14	-14.77	0
152.9	-32.06	-52.59	-14	-18.06	0
153.0	-37.72	-58.25	-14	-23.72	0
153.1	-53.77	-74.29	-14	-39.77	0
153.2	-39.09	-59.61	-14	-25.09	0
153.3	-33.15	-53.68	-14	-19.15	0
153.4	-29.96	-50.48	-14	-15.96	0
153.5	-27.93	-48.46	-14	-13.93	0
153.6	-26.62	-47.14	-14	-12.62	0
153.7	-25.80	-46.33	-14	-11.80	0
153.8	-25.39	-45.91	-14	-11.39	0
153.9	-25.33	-45.85	-14	-11.33	0
154.0	-25.60	-46.13	-14	-11.60	0
154.1	-26.22	-46.75	-14	-12.22	0

154.2	-27.18	-47.71	-14	-13.18	0
154.3	-28.49	-49.02	-14	-14.49	0
154.4	-30.06	-50.58	-14	-16.06	0
154.5	-31.45	-51.98	-14	-17.45	0
154.6	-31.81	-52.34	-14	-17.81	0
154.7	-30.74	-51.27	-14	-16.74	0
154.8	-29.01	-49.54	-14	-15.01	0
154.9	-27.34	-47.87	-14	-13.34	0
155.0	-25.98	-46.50	-14	-11.98	0
155.1	-24.95	-45.48	-14	-10.95	0
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155.6	-24.58	-45.11	-14	-10.58	0
155.7	-25.55	-46.08	-14	-11.55	0
155.8	-27.03	-47.55	-14	-13.03	0
155.9	-29.21	-49.74	-14	-15.21	0
156.0	-32.51	-53.04	-14	-18.51	0
156.1	-37.35	-57.87	-14	-23.35	0
156.2	-38.21	-58.74	-14	-24.21	0
156.3	-33.02	-53.55	-14	-19.02	0
156.4	-29.16	-49.69	-14	-15.16	0
156.5	-26.52	-47.05	-14	-12.52	0
156.6	-24.65	-45.18	-14	-10.65	0
156.7	-23.30	-43.83	-14	-9.30	0
156.8	-22.35	-42.88	-14	-8.35	0
156.9	-21.73	-42.26	-14	-7.73	0
157.0	-21.40	-41.92	-14	-7.40	0
157.1	-21.33	-41.86	-14	-7.33	0
157.2	-21.52	-42.05	-14	-7.52	0
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157.5	-23.85	-44.37	-14	-9.85	0
157.6	-25.36	-45.88	-14	-11.36	0
157.7	-27.41	-47.93	-14	-13.41	0
157.8	-30.22	-50.75	-14	-16.22	0
157.9	-34.10	-54.63	-14	-20.10	0
158.0	-38.03	-58.56	-14	-24.03	0
158.1	-36.43	-56.96	-14	-22.43	0
158.2	-32.77	-53.30	-14	-18.77	0
158.3	-30.20	-50.73	-14	-16.20	0
158.4	-28.56	-49.09	-14	-14.56	0
158.5	-27.61	-48.14	-14	-13.61	0
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158.7	-27.34	-47.86	-14	-13.34	0
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159.0	-31.34	-51.87	-14	-17.34	0
159.1	-34.51	-55.04	-14	-20.51	0

159.2	-37.75	-58.28	-14	-23.75	0
159.3	-35.56	-56.08	-14	-21.56	0
159.4	-31.26	-51.79	-14	-17.26	0
159.5	-28.00	-48.52	-14	-14.00	0
159.6	-25.62	-46.14	-14	-11.62	0
159.7	-23.85	-44.38	-14	-9.85	0
159.8	-22.55	-43.08	-14	-8.55	0
159.9	-21.61	-42.14	-14	-7.61	0
160.0	-20.99	-41.51	-14	-6.99	0
160.1	-20.64	-41.17	-14	-6.64	0
160.2	-20.56	-41.08	-14	-6.56	0
160.3	-20.74	-41.27	-14	-6.74	0
160.4	-21.20	-41.73	-14	-7.20	0
160.5	-21.97	-42.50	-14	-7.97	0
160.6	-23.09	-43.62	-14	-9.09	0
160.7	-24.67	-45.20	-14	-10.67	0
160.8	-26.86	-47.39	-14	-12.86	0
160.9	-29.96	-50.49	-14	-15.96	0
161.0	-34.37	-54.89	-14	-20.37	0
161.1	-37.52	-58.05	-14	-23.52	0
161.2	-33.80	-54.33	-14	-19.80	0
161.3	-30.02	-50.55	-14	-16.02	0
161.4	-27.50	-48.03	-14	-13.50	0
161.5	-25.84	-46.37	-14	-11.84	0
161.6	-24.79	-45.32	-14	-10.79	0
161.7	-24.22	-44.75	-14	-10.22	0
161.8	-24.06	-44.58	-14	-10.06	0
161.9	-24.27	-44.80	-14	-10.27	0
162.0	-24.87	-45.40	-14	-10.87	0
162.1	-25.85	-46.38	-14	-11.85	0
162.2	-27.21	-47.73	-14	-13.21	0
162.3	-28.76	-49.29	-14	-14.76	0
162.4	-29.92	-50.45	-14	-15.92	0
162.5	-29.70	-50.23	-14	-15.70	0
162.6	-28.17	-48.69	-14	-14.17	0
162.7	-26.29	-46.82	-14	-12.29	0
162.8	-24.62	-45.15	-14	-10.62	0
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163.0	-22.34	-42.87	-14	-8.34	0
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163.6	-23.26	-43.79	-14	-9.26	0
163.7	-24.74	-45.26	-14	-10.74	0
163.8	-26.82	-47.34	-14	-12.82	0
163.9	-29.66	-50.19	-14	-15.66	0
164.0	-32.87	-53.40	-14	-18.87	0
164.1	-33.19	-53.71	-14	-19.19	0

164.2	-30.08	-50.61	-14	-16.08	0
164.3	-27.12	-47.65	-14	-13.12	0
164.4	-24.94	-45.46	-14	-10.94	0
164.5	-23.39	-43.91	-14	-9.39	0
164.6	-22.33	-42.86	-14	-8.33	0
164.7	-21.67	-42.20	-14	-7.67	0
164.8	-21.37	-41.90	-14	-7.37	0
164.9	-21.40	-41.93	-14	-7.40	0
165.0	-21.76	-42.29	-14	-7.76	0
165.1	-22.46	-42.99	-14	-8.46	0
165.2	-23.54	-44.07	-14	-9.54	0
165.3	-25.04	-45.56	-14	-11.04	0
165.4	-26.96	-47.49	-14	-12.96	0
165.5	-29.04	-49.57	-14	-15.04	0
165.6	-30.20	-50.73	-14	-16.20	0
165.7	-29.30	-49.83	-14	-15.30	0
165.8	-27.32	-47.85	-14	-13.32	0
165.9	-25.44	-45.97	-14	-11.44	0
166.0	-23.99	-44.51	-14	-9.99	0
166.1	-22.97	-43.50	-14	-8.97	0
166.2	-22.36	-42.89	-14	-8.36	0
166.3	-22.12	-42.65	-14	-8.12	0
166.4	-22.26	-42.78	-14	-8.26	0
166.5	-22.78	-43.31	-14	-8.78	0
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167.1	-32.75	-53.28	-14	-18.75	0
167.2	-28.79	-49.32	-14	-14.79	0
167.3	-25.74	-46.27	-14	-11.74	0
167.4	-23.57	-44.10	-14	-9.57	0
167.5	-22.03	-42.56	-14	-8.03	0
167.6	-20.98	-41.51	-14	-6.98	0
167.7	-20.31	-40.84	-14	-6.31	0
167.8	-19.99	-40.52	-14	-5.99	0
167.9	-19.99	-40.52	-14	-5.99	0
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168.1	-20.98	-41.51	-14	-6.98	0
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168.3	-23.51	-44.04	-14	-9.51	0
168.4	-25.52	-46.05	-14	-11.52	0
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168.6	-30.26	-50.79	-14	-16.26	0
168.7	-30.09	-50.62	-14	-16.09	0
168.8	-27.86	-48.39	-14	-13.86	0
168.9	-25.60	-46.13	-14	-11.60	0
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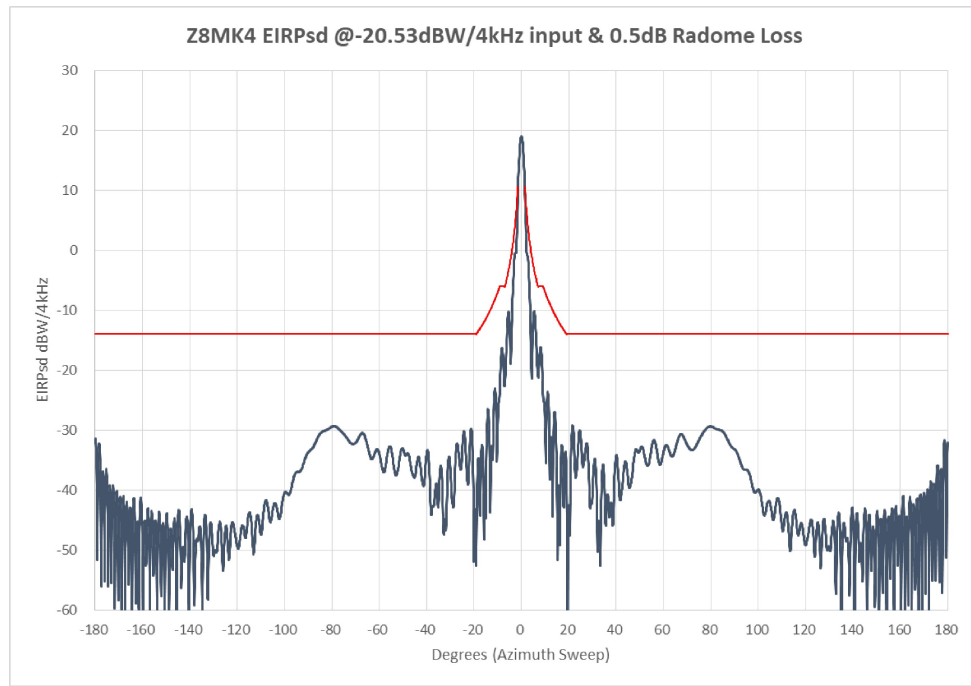
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169.6	-23.36	-43.89	-14	-9.36	0
169.7	-25.02	-45.55	-14	-11.02	0
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169.9	-31.10	-51.62	-14	-17.10	0
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170.7	-18.76	-39.29	-14	-4.76	0
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171.3	-22.29	-42.81	-14	-8.29	0
171.4	-24.46	-44.99	-14	-10.46	0
171.5	-27.29	-47.82	-14	-13.29	0
171.6	-30.01	-50.54	-14	-16.01	0
171.7	-29.76	-50.29	-14	-15.76	0
171.8	-27.08	-47.60	-14	-13.08	0
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172.0	-22.79	-43.31	-14	-8.79	0
172.1	-21.59	-42.11	-14	-7.59	0
172.2	-20.89	-41.42	-14	-6.89	0
172.3	-20.65	-41.17	-14	-6.65	0
172.4	-20.84	-41.37	-14	-6.84	0
172.5	-21.51	-42.03	-14	-7.51	0
172.6	-22.73	-43.26	-14	-8.73	0
172.7	-24.68	-45.21	-14	-10.68	0
172.8	-27.70	-48.22	-14	-13.70	0
172.9	-31.82	-52.34	-14	-17.82	0
173.0	-32.09	-52.62	-14	-18.09	0
173.1	-27.53	-48.05	-14	-13.53	0
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173.3	-21.31	-41.84	-14	-7.31	0
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173.7	-16.80	-37.33	-14	-2.80	0
173.8	-16.60	-37.13	-14	-2.60	0
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176.5	-15.35	-35.88	-14	-1.35	0
176.6	-14.57	-35.10	-14	-0.57	0
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176.8	-14.01	-34.54	-14	-0.01	0
176.9	-14.21	-34.74	-14	-0.21	0
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177.1	-15.67	-36.20	-14	-1.67	0
177.2	-17.08	-37.61	-14	-3.08	0
177.3	-19.15	-39.68	-14	-5.15	0
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177.6	-29.59	-50.12	-14	-15.59	0
177.7	-24.93	-45.46	-14	-10.93	0
177.8	-20.91	-41.43	-14	-6.91	0
177.9	-18.23	-38.76	-14	-4.23	0
178.0	-16.43	-36.95	-14	-2.43	0
178.1	-15.22	-35.75	-14	-1.22	0
178.2	-14.49	-35.02	-14	-0.49	0
178.3	-14.16	-34.69	-14	-0.16	0
178.4	-14.22	-34.75	-14	-0.22	0
178.5	-14.70	-35.22	-14	-0.70	0
178.6	-15.64	-36.16	-14	-1.64	0
178.7	-17.18	-37.71	-14	-3.18	0
178.8	-19.62	-40.14	-14	-5.62	0
178.9	-23.62	-44.14	-14	-9.62	0
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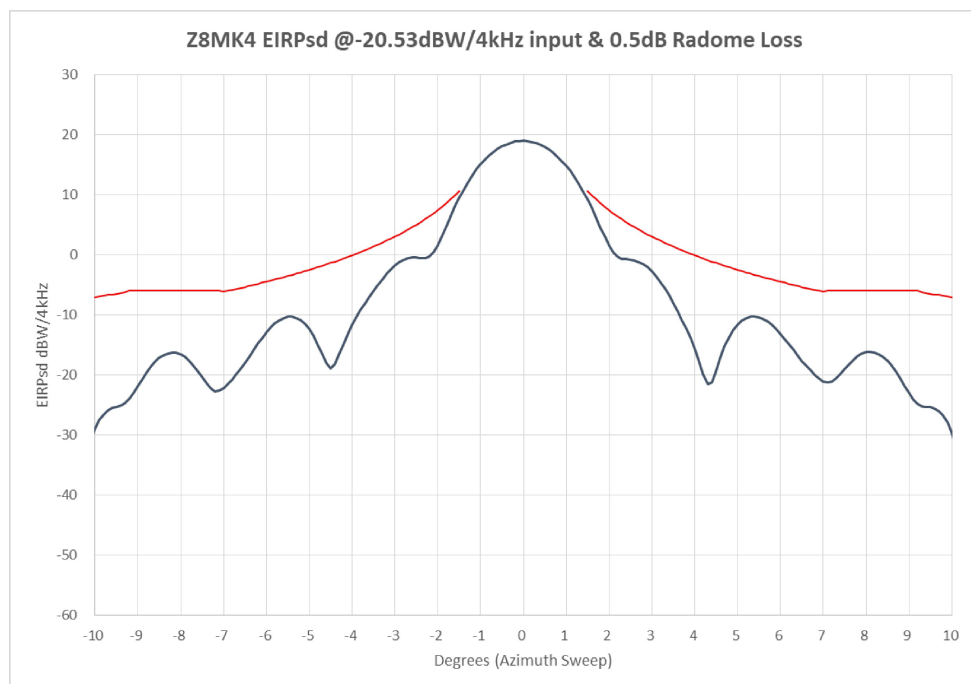
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179.5	-12.67	-33.20	-14	1.33	0
179.6	-11.34	-31.87	-14	2.66	0
179.7	-10.38	-30.91	-14	3.62	0
179.8	-9.73	-30.25	-14	4.27	0
179.9	-9.35	-29.88	-14	4.65	0
180.0	-10.31	-30.84	-14	3.69	0

3) 14.5GHz

a) At off-axis angles from $\pm 180^\circ$ range (Tangent)



b) At off-axis angles from $\pm 10^\circ$ range (Tangent)



Model Z8MK4
Frequency 14.50 [GHz]
GSO arc Tangent
EIRPsd Input -19.45 [dBW/4kHz]
Radome Loss 0.5 [dB]
39.53

Min input:
(@all freq.) -20.53

out of spec.

Azimuth [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
-180.0	-11.51	-32.04	-14	2.49	0
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-179.8	-10.93	-31.46	-14	3.07	0
-179.7	-11.09	-31.62	-14	2.91	0
-179.6	-11.60	-32.13	-14	2.40	0
-179.5	-12.49	-33.02	-14	1.51	0
-179.4	-13.84	-34.37	-14	0.16	0
-179.3	-15.82	-36.35	-14	-1.82	0
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-161.6	-39.07	-59.60	-14	-25.07	0
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-2.7	19.99	-0.54	4.215905896	15.78	0
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-2.3	20.05	-0.48	5.9568041	14.09	0
-2.2	20.30	-0.23	6.439432979	13.86	0
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-2.0	22.12	1.59	7.474250108	14.65	0
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-1.6	28.57	8.04	9.897000434	18.67	0
-1.5	30.05	9.52	10.59771852	19.45	0
-1.4	31.41	10.88			
-1.3	32.64	12.11			
-1.2	33.75	13.22			
-1.1	34.74	14.21			
-1.0	35.63	15.10			
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-0.8	37.10	16.57			
-0.7	37.69	17.16			
-0.6	38.20	17.67			
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-0.4	38.96	18.43			
-0.3	39.22	18.69			
-0.2	39.40	18.87			
-0.1	39.50	18.97			
0.0	39.53	19.00			
0.1	39.48	18.95			
0.2	39.35	18.82			
0.3	39.15	18.62			
0.4	38.86	18.34			
0.5	38.50	17.97			
0.6	38.06	17.53			
0.7	37.53	17.00			
0.8	36.91	16.38			
0.9	36.20	15.67			
1.0	35.40	14.87			
1.1	34.49	13.97			
1.2	33.48	12.96			
1.3	32.36	11.83			
1.4	31.12	10.60			
1.5	29.77	9.24	10.59771852	19.17	0
1.6	28.30	7.77	9.897000434	18.40	0
1.7	26.73	6.20	9.238776966	17.49	0
1.8	25.10	4.57	8.618187372	16.48	0
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2.1	20.96	0.44	6.944517632	14.02	0
2.2	20.27	-0.26	6.439432979	13.83	0
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2.5	19.72	-0.81	5.051499783	14.67	0
2.6	19.59	-0.94	4.625666301	14.97	0
2.7	19.35	-1.18	4.215905896	15.14	0
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3.1	16.97	-3.56	2.715957654	14.25	0
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4.1	2.87	-17.66	-0.319596418	3.19	0

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4.4	-0.69	-21.22	-1.086316912	0.39	0
4.5	1.20	-19.33	-1.330312844	2.53	0
4.6	3.39	-17.14	-1.568945792	4.96	0
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4.9	8.02	-12.50	-2.254902001	10.28	0
5.0	8.93	-11.60	-2.474250108	11.41	0
5.1	9.59	-10.94	-2.689254402	12.28	0
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5.3	10.25	-10.27	-3.10689674	13.36	0
5.4	10.31	-10.22	-3.309843996	13.62	0
5.5	10.19	-10.34	-3.509067237	13.70	0
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5.7	9.49	-11.04	-3.896871392	13.38	0
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7.2	-0.54	-21.07	-6	5.46	0
7.3	-0.03	-20.56	-6	5.97	0
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7.5	1.55	-18.98	-6	7.55	0
7.6	2.37	-18.16	-6	8.37	0
7.7	3.08	-17.45	-6	9.08	0
7.8	3.66	-16.87	-6	9.66	0
7.9	4.08	-16.45	-6	10.08	0
8.0	4.32	-16.20	-6	10.32	0
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8.2	4.30	-16.23	-6	10.30	0
8.3	4.02	-16.50	-6	10.02	0
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9.2	-4.27	-24.80	-6	1.73	0
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9.8	-6.21	-26.74	-6.780651892	0.57	0
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15.4	-24.37	-44.90	-11.68801802	-12.68	0
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15.7	-18.67	-39.20	-11.89749131	-6.77	0
15.8	-18.90	-39.43	-11.96642717	-6.93	0
15.9	-19.96	-40.49	-12.03492811	-7.93	0
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16.7	-14.07	-34.60	-12.56791178	-1.50	0
16.8	-12.98	-33.51	-12.63273204	-0.35	0
16.9	-12.29	-32.82	-12.69716762	0.41	0
17.0	-11.94	-32.47	-12.76122303	0.82	0
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17.2	-12.22	-32.75	-12.88821117	0.67	0
17.3	-12.86	-33.38	-12.95115258	0.09	0
17.4	-13.87	-34.40	-13.01373121	-0.86	0
17.5	-15.32	-35.85	-13.07595122	-2.25	0
17.6	-17.29	-37.82	-13.1378167	-4.15	0
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18.3	-14.66	-35.18	-13.56127724	-1.10	0
18.4	-13.78	-34.30	-13.62044558	-0.16	0
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19.8	-23.50	-44.03	-14	-9.50	0
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21.1	-11.24	-31.77	-14	2.76	0
21.2	-10.31	-30.84	-14	3.69	0
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22.5	-15.00	-35.53	-14	-1.00	0
22.6	-16.07	-36.60	-14	-2.07	0
22.7	-16.89	-37.42	-14	-2.89	0
22.8	-17.36	-37.89	-14	-3.36	0
22.9	-17.47	-38.00	-14	-3.47	0
23.0	-17.33	-37.86	-14	-3.33	0
23.1	-17.06	-37.59	-14	-3.06	0
23.2	-16.74	-37.27	-14	-2.74	0
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23.4	-15.99	-36.52	-14	-1.99	0
23.5	-15.51	-36.04	-14	-1.51	0
23.6	-14.93	-35.46	-14	-0.93	0
23.7	-14.24	-34.77	-14	-0.24	0
23.8	-13.49	-34.02	-14	0.51	0
23.9	-12.72	-33.25	-14	1.28	0
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24.3	-10.20	-30.73	-14	3.80	0
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24.5	-9.58	-30.10	-14	4.42	0
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25.7	-15.05	-35.58	-14	-1.05	0
25.8	-15.51	-36.03	-14	-1.51	0
25.9	-15.73	-36.26	-14	-1.73	0
26.0	-15.74	-36.26	-14	-1.74	0
26.1	-15.58	-36.11	-14	-1.58	0
26.2	-15.33	-35.85	-14	-1.33	0
26.3	-15.03	-35.56	-14	-1.03	0
26.4	-14.72	-35.25	-14	-0.72	0
26.5	-14.41	-34.93	-14	-0.41	0
26.6	-14.09	-34.62	-14	-0.09	0
26.7	-13.78	-34.31	-14	0.22	0
26.8	-13.45	-33.98	-14	0.55	0
26.9	-13.12	-33.65	-14	0.88	0
27.0	-12.79	-33.32	-14	1.21	0
27.1	-12.48	-33.01	-14	1.52	0
27.2	-12.19	-32.72	-14	1.81	0
27.3	-11.96	-32.49	-14	2.04	0
27.4	-11.79	-32.32	-14	2.21	0
27.5	-11.70	-32.22	-14	2.30	0
27.6	-11.70	-32.23	-14	2.30	0
27.7	-11.80	-32.33	-14	2.20	0
27.8	-12.02	-32.55	-14	1.98	0
27.9	-12.37	-32.90	-14	1.63	0
28.0	-12.85	-33.38	-14	1.15	0
28.1	-13.47	-34.00	-14	0.53	0
28.2	-14.25	-34.78	-14	-0.25	0
28.3	-15.19	-35.72	-14	-1.19	0
28.4	-16.29	-36.81	-14	-2.29	0
28.5	-17.53	-38.06	-14	-3.53	0
28.6	-18.89	-39.42	-14	-4.89	0
28.7	-20.25	-40.78	-14	-6.25	0
28.8	-21.44	-41.96	-14	-7.44	0
28.9	-22.23	-42.75	-14	-8.23	0
29.0	-22.51	-43.04	-14	-8.51	0
29.1	-22.40	-42.92	-14	-8.40	0

29.2	-22.11	-42.64	-14	-8.11	0
29.3	-21.83	-42.36	-14	-7.83	0
29.4	-21.66	-42.19	-14	-7.66	0
29.5	-21.61	-42.13	-14	-7.61	0
29.6	-21.63	-42.16	-14	-7.63	0
29.7	-21.65	-42.18	-14	-7.65	0
29.8	-21.53	-42.05	-14	-7.53	0
29.9	-21.15	-41.68	-14	-7.15	0
30.0	-20.49	-41.02	-14	-6.49	0
30.1	-19.61	-40.14	-14	-5.61	0
30.2	-18.62	-39.15	-14	-4.62	0
30.3	-17.64	-38.17	-14	-3.64	0
30.4	-16.74	-37.27	-14	-2.74	0
30.5	-15.97	-36.50	-14	-1.97	0
30.6	-15.33	-35.86	-14	-1.33	0
30.7	-14.85	-35.38	-14	-0.85	0
30.8	-14.53	-35.06	-14	-0.53	0
30.9	-14.37	-34.89	-14	-0.37	0
31.0	-14.36	-34.89	-14	-0.36	0
31.1	-14.53	-35.06	-14	-0.53	0
31.2	-14.87	-35.40	-14	-0.87	0
31.3	-15.39	-35.92	-14	-1.39	0
31.4	-16.12	-36.65	-14	-2.12	0
31.5	-17.07	-37.60	-14	-3.07	0
31.6	-18.28	-38.81	-14	-4.28	0
31.7	-19.80	-40.33	-14	-5.80	0
31.8	-21.68	-42.21	-14	-7.68	0
31.9	-23.99	-44.52	-14	-9.99	0
32.0	-26.69	-47.22	-14	-12.69	0
32.1	-29.18	-49.71	-14	-15.18	0
32.2	-29.83	-50.36	-14	-15.83	0
32.3	-28.49	-49.02	-14	-14.49	0
32.4	-26.82	-47.35	-14	-12.82	0
32.5	-25.57	-46.09	-14	-11.57	0
32.6	-24.83	-45.36	-14	-10.83	0
32.7	-24.59	-45.12	-14	-10.59	0
32.8	-24.84	-45.37	-14	-10.84	0
32.9	-25.62	-46.15	-14	-11.62	0
33.0	-27.00	-47.53	-14	-13.00	0
33.1	-29.08	-49.61	-14	-15.08	0
33.2	-31.58	-52.10	-14	-17.58	0
33.3	-32.13	-52.65	-14	-18.13	0
33.4	-29.26	-49.79	-14	-15.26	0
33.5	-25.94	-46.47	-14	-11.94	0
33.6	-23.24	-43.77	-14	-9.24	0
33.7	-21.13	-41.66	-14	-7.13	0
33.8	-19.48	-40.00	-14	-5.48	0
33.9	-18.17	-38.70	-14	-4.17	0
34.0	-17.16	-37.69	-14	-3.16	0
34.1	-16.39	-36.92	-14	-2.39	0

34.2	-15.83	-36.36	-14	-1.83	0
34.3	-15.47	-36.00	-14	-1.47	0
34.4	-15.29	-35.82	-14	-1.29	0
34.5	-15.29	-35.82	-14	-1.29	0
34.6	-15.46	-35.99	-14	-1.46	0
34.7	-15.80	-36.33	-14	-1.80	0
34.8	-16.33	-36.86	-14	-2.33	0
34.9	-17.05	-37.58	-14	-3.05	0
35.0	-17.98	-38.51	-14	-3.98	0
35.1	-19.13	-39.66	-14	-5.13	0
35.2	-20.51	-41.04	-14	-6.51	0
35.3	-22.09	-42.61	-14	-8.09	0
35.4	-23.71	-44.24	-14	-9.71	0
35.5	-25.00	-45.53	-14	-11.00	0
35.6	-25.41	-45.94	-14	-11.41	0
35.7	-24.83	-45.35	-14	-10.83	0
35.8	-23.73	-44.26	-14	-9.73	0
35.9	-22.60	-43.13	-14	-8.60	0
36.0	-21.65	-42.18	-14	-7.65	0
36.1	-20.93	-41.46	-14	-6.93	0
36.2	-20.45	-40.98	-14	-6.45	0
36.3	-20.20	-40.72	-14	-6.20	0
36.4	-20.16	-40.68	-14	-6.16	0
36.5	-20.32	-40.84	-14	-6.32	0
36.6	-20.66	-41.19	-14	-6.66	0
36.7	-21.17	-41.70	-14	-7.17	0
36.8	-21.82	-42.35	-14	-7.82	0
36.9	-22.54	-43.07	-14	-8.54	0
37.0	-23.24	-43.77	-14	-9.24	0
37.1	-23.78	-44.31	-14	-9.78	0
37.2	-24.02	-44.55	-14	-10.02	0
37.3	-23.91	-44.44	-14	-9.91	0
37.4	-23.51	-44.04	-14	-9.51	0
37.5	-22.98	-43.51	-14	-8.98	0
37.6	-22.45	-42.98	-14	-8.45	0
37.7	-22.01	-42.54	-14	-8.01	0
37.8	-21.72	-42.25	-14	-7.72	0
37.9	-21.61	-42.13	-14	-7.61	0
38.0	-21.69	-42.22	-14	-7.69	0
38.1	-21.98	-42.51	-14	-7.98	0
38.2	-22.49	-43.02	-14	-8.49	0
38.3	-23.20	-43.72	-14	-9.20	0
38.4	-24.05	-44.58	-14	-10.05	0
38.5	-24.88	-45.40	-14	-10.88	0
38.6	-25.35	-45.88	-14	-11.35	0
38.7	-25.09	-45.62	-14	-11.09	0
38.8	-24.05	-44.58	-14	-10.05	0
38.9	-22.58	-43.11	-14	-8.58	0
39.0	-21.04	-41.56	-14	-7.04	0
39.1	-19.59	-40.12	-14	-5.59	0

39.2	-18.32	-38.85	-14	-4.32	0
39.3	-17.23	-37.76	-14	-3.23	0
39.4	-16.30	-36.83	-14	-2.30	0
39.5	-15.54	-36.07	-14	-1.54	0
39.6	-14.92	-35.45	-14	-0.92	0
39.7	-14.44	-34.96	-14	-0.44	0
39.8	-14.08	-34.60	-14	-0.08	0
39.9	-13.83	-34.36	-14	0.17	0
40.0	-13.70	-34.23	-14	0.30	0
40.1	-13.67	-34.20	-14	0.33	0
40.2	-13.75	-34.28	-14	0.25	0
40.3	-13.93	-34.45	-14	0.07	0
40.4	-14.20	-34.73	-14	-0.20	0
40.5	-14.57	-35.09	-14	-0.57	0
40.6	-15.02	-35.55	-14	-1.02	0
40.7	-15.57	-36.10	-14	-1.57	0
40.8	-16.20	-36.72	-14	-2.20	0
40.9	-16.89	-37.42	-14	-2.89	0
41.0	-17.64	-38.16	-14	-3.64	0
41.1	-18.41	-38.94	-14	-4.41	0
41.2	-19.17	-39.70	-14	-5.17	0
41.3	-19.87	-40.40	-14	-5.87	0
41.4	-20.46	-40.98	-14	-6.46	0
41.5	-20.89	-41.41	-14	-6.89	0
41.6	-21.14	-41.66	-14	-7.14	0
41.7	-21.21	-41.74	-14	-7.21	0
41.8	-21.15	-41.68	-14	-7.15	0
41.9	-20.99	-41.51	-14	-6.99	0
42.0	-20.76	-41.29	-14	-6.76	0
42.1	-20.49	-41.02	-14	-6.49	0
42.2	-20.20	-40.73	-14	-6.20	0
42.3	-19.88	-40.41	-14	-5.88	0
42.4	-19.54	-40.07	-14	-5.54	0
42.5	-19.17	-39.70	-14	-5.17	0
42.6	-18.77	-39.30	-14	-4.77	0
42.7	-18.35	-38.88	-14	-4.35	0
42.8	-17.90	-38.43	-14	-3.90	0
42.9	-17.45	-37.98	-14	-3.45	0
43.0	-17.00	-37.53	-14	-3.00	0
43.1	-16.56	-37.09	-14	-2.56	0
43.2	-16.15	-36.68	-14	-2.15	0
43.3	-15.78	-36.31	-14	-1.78	0
43.4	-15.46	-35.99	-14	-1.46	0
43.5	-15.18	-35.71	-14	-1.18	0
43.6	-14.96	-35.49	-14	-0.96	0
43.7	-14.81	-35.33	-14	-0.81	0
43.8	-14.71	-35.24	-14	-0.71	0
43.9	-14.67	-35.20	-14	-0.67	0
44.0	-14.70	-35.23	-14	-0.70	0
44.1	-14.79	-35.32	-14	-0.79	0

44.2	-14.94	-35.47	-14	-0.94	0
44.3	-15.15	-35.68	-14	-1.15	0
44.4	-15.42	-35.95	-14	-1.42	0
44.5	-15.74	-36.27	-14	-1.74	0
44.6	-16.11	-36.64	-14	-2.11	0
44.7	-16.51	-37.04	-14	-2.51	0
44.8	-16.94	-37.47	-14	-2.94	0
44.9	-17.38	-37.90	-14	-3.38	0
45.0	-17.80	-38.33	-14	-3.80	0
45.1	-18.20	-38.72	-14	-4.20	0
45.2	-18.54	-39.07	-14	-4.54	0
45.3	-18.81	-39.34	-14	-4.81	0
45.4	-19.00	-39.53	-14	-5.00	0
45.5	-19.11	-39.64	-14	-5.11	0
45.6	-19.14	-39.67	-14	-5.14	0
45.7	-19.11	-39.64	-14	-5.11	0
45.8	-19.03	-39.56	-14	-5.03	0
45.9	-18.92	-39.45	-14	-4.92	0
46.0	-18.78	-39.31	-14	-4.78	0
46.1	-18.62	-39.15	-14	-4.62	0
46.2	-18.45	-38.98	-14	-4.45	0
46.3	-18.26	-38.79	-14	-4.26	0
46.4	-18.05	-38.58	-14	-4.05	0
46.5	-17.82	-38.35	-14	-3.82	0
46.6	-17.55	-38.08	-14	-3.55	0
46.7	-17.26	-37.79	-14	-3.26	0
46.8	-16.93	-37.46	-14	-2.93	0
46.9	-16.58	-37.10	-14	-2.58	0
47.0	-16.20	-36.73	-14	-2.20	0
47.1	-15.81	-36.34	-14	-1.81	0
47.2	-15.42	-35.94	-14	-1.42	0
47.3	-15.03	-35.56	-14	-1.03	0
47.4	-14.66	-35.18	-14	-0.66	0
47.5	-14.30	-34.83	-14	-0.30	0
47.6	-13.98	-34.51	-14	0.02	0
47.7	-13.68	-34.21	-14	0.32	0
47.8	-13.43	-33.95	-14	0.57	0
47.9	-13.21	-33.73	-14	0.79	0
48.0	-13.02	-33.55	-14	0.98	0
48.1	-12.88	-33.41	-14	1.12	0
48.2	-12.77	-33.30	-14	1.23	0
48.3	-12.70	-33.23	-14	1.30	0
48.4	-12.67	-33.20	-14	1.33	0
48.5	-12.67	-33.20	-14	1.33	0
48.6	-12.69	-33.22	-14	1.31	0
48.7	-12.74	-33.27	-14	1.26	0
48.8	-12.81	-33.34	-14	1.19	0
48.9	-12.89	-33.41	-14	1.11	0
49.0	-12.97	-33.49	-14	1.03	0
49.1	-13.04	-33.57	-14	0.96	0

49.2	-13.11	-33.64	-14	0.89	0
49.3	-13.16	-33.68	-14	0.84	0
49.4	-13.18	-33.71	-14	0.82	0
49.5	-13.18	-33.71	-14	0.82	0
49.6	-13.15	-33.68	-14	0.85	0
49.7	-13.09	-33.62	-14	0.91	0
49.8	-13.01	-33.54	-14	0.99	0
49.9	-12.91	-33.44	-14	1.09	0
50.0	-12.80	-33.33	-14	1.20	0
50.1	-12.68	-33.21	-14	1.32	0
50.2	-12.57	-33.10	-14	1.43	0
50.3	-12.46	-32.99	-14	1.54	0
50.4	-12.36	-32.89	-14	1.64	0
50.5	-12.29	-32.81	-14	1.71	0
50.6	-12.23	-32.76	-14	1.77	0
50.7	-12.19	-32.72	-14	1.81	0
50.8	-12.18	-32.71	-14	1.82	0
50.9	-12.20	-32.73	-14	1.80	0
51.0	-12.24	-32.77	-14	1.76	0
51.1	-12.31	-32.84	-14	1.69	0
51.2	-12.41	-32.94	-14	1.59	0
51.3	-12.53	-33.06	-14	1.47	0
51.4	-12.67	-33.20	-14	1.33	0
51.5	-12.83	-33.36	-14	1.17	0
51.6	-13.01	-33.54	-14	0.99	0
51.7	-13.20	-33.73	-14	0.80	0
51.8	-13.40	-33.92	-14	0.60	0
51.9	-13.60	-34.13	-14	0.40	0
52.0	-13.81	-34.34	-14	0.19	0
52.1	-14.01	-34.54	-14	-0.01	0
52.2	-14.21	-34.74	-14	-0.21	0
52.3	-14.40	-34.93	-14	-0.40	0
52.4	-14.57	-35.10	-14	-0.57	0
52.5	-14.74	-35.27	-14	-0.74	0
52.6	-14.89	-35.41	-14	-0.89	0
52.7	-15.02	-35.54	-14	-1.02	0
52.8	-15.13	-35.66	-14	-1.13	0
52.9	-15.23	-35.76	-14	-1.23	0
53.0	-15.31	-35.84	-14	-1.31	0
53.1	-15.37	-35.90	-14	-1.37	0
53.2	-15.41	-35.94	-14	-1.41	0
53.3	-15.43	-35.95	-14	-1.43	0
53.4	-15.42	-35.95	-14	-1.42	0
53.5	-15.39	-35.91	-14	-1.39	0
53.6	-15.32	-35.85	-14	-1.32	0
53.7	-15.23	-35.76	-14	-1.23	0
53.8	-15.11	-35.64	-14	-1.11	0
53.9	-14.95	-35.48	-14	-0.95	0
54.0	-14.77	-35.29	-14	-0.77	0
54.1	-14.55	-35.08	-14	-0.55	0

54.2	-14.32	-34.85	-14	-0.32	0
54.3	-14.07	-34.59	-14	-0.07	0
54.4	-13.80	-34.33	-14	0.20	0
54.5	-13.53	-34.06	-14	0.47	0
54.6	-13.25	-33.78	-14	0.75	0
54.7	-12.98	-33.51	-14	1.02	0
54.8	-12.72	-33.25	-14	1.28	0
54.9	-12.47	-33.00	-14	1.53	0
55.0	-12.24	-32.76	-14	1.76	0
55.1	-12.02	-32.55	-14	1.98	0
55.2	-11.83	-32.35	-14	2.17	0
55.3	-11.65	-32.18	-14	2.35	0
55.4	-11.50	-32.03	-14	2.50	0
55.5	-11.38	-31.91	-14	2.62	0
55.6	-11.28	-31.81	-14	2.72	0
55.7	-11.21	-31.74	-14	2.79	0
55.8	-11.16	-31.69	-14	2.84	0
55.9	-11.14	-31.67	-14	2.86	0
56.0	-11.15	-31.68	-14	2.85	0
56.1	-11.18	-31.71	-14	2.82	0
56.2	-11.24	-31.77	-14	2.76	0
56.3	-11.32	-31.85	-14	2.68	0
56.4	-11.43	-31.96	-14	2.57	0
56.5	-11.56	-32.08	-14	2.44	0
56.6	-11.71	-32.23	-14	2.29	0
56.7	-11.88	-32.40	-14	2.12	0
56.8	-12.06	-32.59	-14	1.94	0
56.9	-12.27	-32.80	-14	1.73	0
57.0	-12.49	-33.02	-14	1.51	0
57.1	-12.72	-33.25	-14	1.28	0
57.2	-12.96	-33.49	-14	1.04	0
57.3	-13.21	-33.74	-14	0.79	0
57.4	-13.46	-33.99	-14	0.54	0
57.5	-13.71	-34.24	-14	0.29	0
57.6	-13.96	-34.49	-14	0.04	0
57.7	-14.20	-34.73	-14	-0.20	0
57.8	-14.42	-34.95	-14	-0.42	0
57.9	-14.63	-35.15	-14	-0.63	0
58.0	-14.81	-35.34	-14	-0.81	0
58.1	-14.96	-35.49	-14	-0.96	0
58.2	-15.09	-35.62	-14	-1.09	0
58.3	-15.18	-35.71	-14	-1.18	0
58.4	-15.24	-35.77	-14	-1.24	0
58.5	-15.26	-35.79	-14	-1.26	0
58.6	-15.24	-35.77	-14	-1.24	0
58.7	-15.20	-35.72	-14	-1.20	0
58.8	-15.12	-35.65	-14	-1.12	0
58.9	-15.01	-35.54	-14	-1.01	0
59.0	-14.88	-35.41	-14	-0.88	0
59.1	-14.73	-35.26	-14	-0.73	0

59.2	-14.56	-35.09	-14	-0.56	0
59.3	-14.38	-34.91	-14	-0.38	0
59.4	-14.19	-34.72	-14	-0.19	0
59.5	-13.99	-34.52	-14	0.01	0
59.6	-13.80	-34.33	-14	0.20	0
59.7	-13.60	-34.13	-14	0.40	0
59.8	-13.41	-33.94	-14	0.59	0
59.9	-13.23	-33.75	-14	0.77	0
60.0	-13.05	-33.58	-14	0.95	0
60.1	-12.88	-33.41	-14	1.12	0
60.2	-12.72	-33.25	-14	1.28	0
60.3	-12.58	-33.11	-14	1.42	0
60.4	-12.45	-32.98	-14	1.55	0
60.5	-12.33	-32.86	-14	1.67	0
60.6	-12.23	-32.76	-14	1.77	0
60.7	-12.14	-32.67	-14	1.86	0
60.8	-12.07	-32.60	-14	1.93	0
60.9	-12.02	-32.55	-14	1.98	0
61.0	-11.98	-32.51	-14	2.02	0
61.1	-11.96	-32.49	-14	2.04	0
61.2	-11.95	-32.48	-14	2.05	0
61.3	-11.96	-32.49	-14	2.04	0
61.4	-11.99	-32.52	-14	2.01	0
61.5	-12.03	-32.55	-14	1.97	0
61.6	-12.08	-32.61	-14	1.92	0
61.7	-12.15	-32.68	-14	1.85	0
61.8	-12.23	-32.76	-14	1.77	0
61.9	-12.32	-32.85	-14	1.68	0
62.0	-12.42	-32.95	-14	1.58	0
62.1	-12.53	-33.06	-14	1.47	0
62.2	-12.65	-33.18	-14	1.35	0
62.3	-12.77	-33.30	-14	1.23	0
62.4	-12.90	-33.43	-14	1.10	0
62.5	-13.03	-33.56	-14	0.97	0
62.6	-13.16	-33.68	-14	0.84	0
62.7	-13.28	-33.81	-14	0.72	0
62.8	-13.40	-33.93	-14	0.60	0
62.9	-13.52	-34.04	-14	0.48	0
63.0	-13.62	-34.15	-14	0.38	0
63.1	-13.71	-34.24	-14	0.29	0
63.2	-13.79	-34.32	-14	0.21	0
63.3	-13.85	-34.38	-14	0.15	0
63.4	-13.90	-34.43	-14	0.10	0
63.5	-13.93	-34.46	-14	0.07	0
63.6	-13.94	-34.47	-14	0.06	0
63.7	-13.93	-34.46	-14	0.07	0
63.8	-13.91	-34.43	-14	0.09	0
63.9	-13.86	-34.39	-14	0.14	0
64.0	-13.80	-34.33	-14	0.20	0
64.1	-13.72	-34.25	-14	0.28	0

64.2	-13.63	-34.16	-14	0.37	0
64.3	-13.53	-34.06	-14	0.47	0
64.4	-13.41	-33.94	-14	0.59	0
64.5	-13.29	-33.81	-14	0.71	0
64.6	-13.15	-33.68	-14	0.85	0
64.7	-13.01	-33.54	-14	0.99	0
64.8	-12.86	-33.39	-14	1.14	0
64.9	-12.71	-33.24	-14	1.29	0
65.0	-12.56	-33.08	-14	1.44	0
65.1	-12.40	-32.93	-14	1.60	0
65.2	-12.24	-32.77	-14	1.76	0
65.3	-12.09	-32.61	-14	1.91	0
65.4	-11.93	-32.46	-14	2.07	0
65.5	-11.78	-32.31	-14	2.22	0
65.6	-11.63	-32.16	-14	2.37	0
65.7	-11.48	-32.01	-14	2.52	0
65.8	-11.34	-31.87	-14	2.66	0
65.9	-11.21	-31.74	-14	2.79	0
66.0	-11.08	-31.61	-14	2.92	0
66.1	-10.96	-31.49	-14	3.04	0
66.2	-10.85	-31.37	-14	3.15	0
66.3	-10.74	-31.27	-14	3.26	0
66.4	-10.64	-31.17	-14	3.36	0
66.5	-10.55	-31.08	-14	3.45	0
66.6	-10.47	-31.00	-14	3.53	0
66.7	-10.40	-30.93	-14	3.60	0
66.8	-10.34	-30.87	-14	3.66	0
66.9	-10.28	-30.81	-14	3.72	0
67.0	-10.24	-30.77	-14	3.76	0
67.1	-10.21	-30.74	-14	3.79	0
67.2	-10.18	-30.71	-14	3.82	0
67.3	-10.17	-30.70	-14	3.83	0
67.4	-10.16	-30.69	-14	3.84	0
67.5	-10.17	-30.70	-14	3.83	0
67.6	-10.18	-30.71	-14	3.82	0
67.7	-10.20	-30.73	-14	3.80	0
67.8	-10.23	-30.76	-14	3.77	0
67.9	-10.27	-30.80	-14	3.73	0
68.0	-10.32	-30.84	-14	3.68	0
68.1	-10.37	-30.90	-14	3.63	0
68.2	-10.43	-30.96	-14	3.57	0
68.3	-10.49	-31.02	-14	3.51	0
68.4	-10.57	-31.09	-14	3.43	0
68.5	-10.64	-31.17	-14	3.36	0
68.6	-10.72	-31.25	-14	3.28	0
68.7	-10.81	-31.33	-14	3.19	0
68.8	-10.89	-31.42	-14	3.11	0
68.9	-10.98	-31.51	-14	3.02	0
69.0	-11.07	-31.60	-14	2.93	0
69.1	-11.16	-31.69	-14	2.84	0

69.2	-11.26	-31.78	-14	2.74	0
69.3	-11.35	-31.88	-14	2.65	0
69.4	-11.44	-31.97	-14	2.56	0
69.5	-11.53	-32.06	-14	2.47	0
69.6	-11.62	-32.15	-14	2.38	0
69.7	-11.71	-32.23	-14	2.29	0
69.8	-11.79	-32.32	-14	2.21	0
69.9	-11.87	-32.40	-14	2.13	0
70.0	-11.95	-32.48	-14	2.05	0
70.1	-12.03	-32.56	-14	1.97	0
70.2	-12.10	-32.63	-14	1.90	0
70.3	-12.17	-32.70	-14	1.83	0
70.4	-12.24	-32.77	-14	1.76	0
70.5	-12.30	-32.83	-14	1.70	0
70.6	-12.36	-32.89	-14	1.64	0
70.7	-12.42	-32.95	-14	1.58	0
70.8	-12.47	-33.00	-14	1.53	0
70.9	-12.53	-33.05	-14	1.47	0
71.0	-12.57	-33.10	-14	1.43	0
71.1	-12.62	-33.15	-14	1.38	0
71.2	-12.66	-33.19	-14	1.34	0
71.3	-12.70	-33.22	-14	1.30	0
71.4	-12.73	-33.26	-14	1.27	0
71.5	-12.76	-33.29	-14	1.24	0
71.6	-12.78	-33.31	-14	1.22	0
71.7	-12.80	-33.33	-14	1.20	0
71.8	-12.82	-33.35	-14	1.18	0
71.9	-12.83	-33.36	-14	1.17	0
72.0	-12.83	-33.36	-14	1.17	0
72.1	-12.83	-33.36	-14	1.17	0
72.2	-12.83	-33.36	-14	1.17	0
72.3	-12.82	-33.35	-14	1.18	0
72.4	-12.80	-33.33	-14	1.20	0
72.5	-12.78	-33.31	-14	1.22	0
72.6	-12.75	-33.28	-14	1.25	0
72.7	-12.72	-33.24	-14	1.28	0
72.8	-12.68	-33.20	-14	1.32	0
72.9	-12.63	-33.16	-14	1.37	0
73.0	-12.58	-33.11	-14	1.42	0
73.1	-12.53	-33.06	-14	1.47	0
73.2	-12.47	-33.00	-14	1.53	0
73.3	-12.41	-32.94	-14	1.59	0
73.4	-12.34	-32.87	-14	1.66	0
73.5	-12.27	-32.80	-14	1.73	0
73.6	-12.20	-32.73	-14	1.80	0
73.7	-12.13	-32.66	-14	1.87	0
73.8	-12.05	-32.58	-14	1.95	0
73.9	-11.98	-32.51	-14	2.02	0
74.0	-11.90	-32.43	-14	2.10	0
74.1	-11.82	-32.35	-14	2.18	0

74.2	-11.74	-32.27	-14	2.26	0
74.3	-11.66	-32.19	-14	2.34	0
74.4	-11.58	-32.11	-14	2.42	0
74.5	-11.50	-32.03	-14	2.50	0
74.6	-11.42	-31.95	-14	2.58	0
74.7	-11.34	-31.87	-14	2.66	0
74.8	-11.26	-31.79	-14	2.74	0
74.9	-11.18	-31.71	-14	2.82	0
75.0	-11.11	-31.64	-14	2.89	0
75.1	-11.03	-31.56	-14	2.97	0
75.2	-10.95	-31.48	-14	3.05	0
75.3	-10.88	-31.41	-14	3.12	0
75.4	-10.80	-31.33	-14	3.20	0
75.5	-10.73	-31.26	-14	3.27	0
75.6	-10.66	-31.18	-14	3.34	0
75.7	-10.58	-31.11	-14	3.42	0
75.8	-10.51	-31.04	-14	3.49	0
75.9	-10.44	-30.97	-14	3.56	0
76.0	-10.37	-30.90	-14	3.63	0
76.1	-10.30	-30.83	-14	3.70	0
76.2	-10.23	-30.76	-14	3.77	0
76.3	-10.17	-30.69	-14	3.83	0
76.4	-10.10	-30.63	-14	3.90	0
76.5	-10.03	-30.56	-14	3.97	0
76.6	-9.97	-30.50	-14	4.03	0
76.7	-9.91	-30.43	-14	4.09	0
76.8	-9.84	-30.37	-14	4.16	0
76.9	-9.78	-30.31	-14	4.22	0
77.0	-9.72	-30.25	-14	4.28	0
77.1	-9.67	-30.20	-14	4.33	0
77.2	-9.61	-30.14	-14	4.39	0
77.3	-9.56	-30.08	-14	4.44	0
77.4	-9.50	-30.03	-14	4.50	0
77.5	-9.45	-29.98	-14	4.55	0
77.6	-9.40	-29.93	-14	4.60	0
77.7	-9.35	-29.88	-14	4.65	0
77.8	-9.31	-29.84	-14	4.69	0
77.9	-9.27	-29.79	-14	4.73	0
78.0	-9.22	-29.75	-14	4.78	0
78.1	-9.18	-29.71	-14	4.82	0
78.2	-9.15	-29.68	-14	4.85	0
78.3	-9.11	-29.64	-14	4.89	0
78.4	-9.08	-29.61	-14	4.92	0
78.5	-9.05	-29.58	-14	4.95	0
78.6	-9.02	-29.55	-14	4.98	0
78.7	-9.00	-29.52	-14	5.00	0
78.8	-8.97	-29.50	-14	5.03	0
78.9	-8.95	-29.48	-14	5.05	0
79.0	-8.93	-29.46	-14	5.07	0
79.1	-8.92	-29.45	-14	5.08	0

79.2	-8.90	-29.43	-14	5.10	0
79.3	-8.89	-29.42	-14	5.11	0
79.4	-8.88	-29.41	-14	5.12	0
79.5	-8.88	-29.41	-14	5.12	0
79.6	-8.87	-29.40	-14	5.13	0
79.7	-8.87	-29.40	-14	5.13	0
79.8	-8.87	-29.40	-14	5.13	0
79.9	-8.88	-29.40	-14	5.12	0
80.0	-8.88	-29.41	-14	5.12	0
80.1	-8.89	-29.42	-14	5.11	0
80.2	-8.90	-29.42	-14	5.10	0
80.3	-8.91	-29.44	-14	5.09	0
80.4	-8.92	-29.45	-14	5.08	0
80.5	-8.93	-29.46	-14	5.07	0
80.6	-8.95	-29.48	-14	5.05	0
80.7	-8.97	-29.49	-14	5.03	0
80.8	-8.98	-29.51	-14	5.02	0
80.9	-9.00	-29.53	-14	5.00	0
81.0	-9.02	-29.55	-14	4.98	0
81.1	-9.04	-29.57	-14	4.96	0
81.2	-9.06	-29.59	-14	4.94	0
81.3	-9.09	-29.61	-14	4.91	0
81.4	-9.11	-29.63	-14	4.89	0
81.5	-9.13	-29.66	-14	4.87	0
81.6	-9.15	-29.68	-14	4.85	0
81.7	-9.17	-29.70	-14	4.83	0
81.8	-9.19	-29.72	-14	4.81	0
81.9	-9.21	-29.74	-14	4.79	0
82.0	-9.23	-29.76	-14	4.77	0
82.1	-9.25	-29.78	-14	4.75	0
82.2	-9.27	-29.80	-14	4.73	0
82.3	-9.29	-29.82	-14	4.71	0
82.4	-9.30	-29.83	-14	4.70	0
82.5	-9.32	-29.85	-14	4.68	0
82.6	-9.33	-29.86	-14	4.67	0
82.7	-9.35	-29.87	-14	4.65	0
82.8	-9.36	-29.89	-14	4.64	0
82.9	-9.37	-29.90	-14	4.63	0
83.0	-9.38	-29.91	-14	4.62	0
83.1	-9.39	-29.92	-14	4.61	0
83.2	-9.40	-29.93	-14	4.60	0
83.3	-9.41	-29.94	-14	4.59	0
83.4	-9.42	-29.95	-14	4.58	0
83.5	-9.43	-29.95	-14	4.57	0
83.6	-9.43	-29.96	-14	4.57	0
83.7	-9.44	-29.97	-14	4.56	0
83.8	-9.45	-29.98	-14	4.55	0
83.9	-9.46	-29.99	-14	4.54	0
84.0	-9.48	-30.00	-14	4.52	0
84.1	-9.49	-30.02	-14	4.51	0

84.2	-9.50	-30.03	-14	4.50	0
84.3	-9.52	-30.05	-14	4.48	0
84.4	-9.54	-30.06	-14	4.46	0
84.5	-9.56	-30.08	-14	4.44	0
84.6	-9.58	-30.11	-14	4.42	0
84.7	-9.60	-30.13	-14	4.40	0
84.8	-9.63	-30.16	-14	4.37	0
84.9	-9.66	-30.19	-14	4.34	0
85.0	-9.69	-30.22	-14	4.31	0
85.1	-9.73	-30.26	-14	4.27	0
85.2	-9.77	-30.30	-14	4.23	0
85.3	-9.82	-30.34	-14	4.18	0
85.4	-9.86	-30.39	-14	4.14	0
85.5	-9.91	-30.44	-14	4.09	0
85.6	-9.97	-30.49	-14	4.03	0
85.7	-10.02	-30.55	-14	3.98	0
85.8	-10.09	-30.61	-14	3.91	0
85.9	-10.15	-30.68	-14	3.85	0
86.0	-10.22	-30.75	-14	3.78	0
86.1	-10.29	-30.82	-14	3.71	0
86.2	-10.36	-30.89	-14	3.64	0
86.3	-10.44	-30.97	-14	3.56	0
86.4	-10.52	-31.05	-14	3.48	0
86.5	-10.60	-31.13	-14	3.40	0
86.6	-10.68	-31.21	-14	3.32	0
86.7	-10.77	-31.30	-14	3.23	0
86.8	-10.86	-31.38	-14	3.14	0
86.9	-10.94	-31.47	-14	3.06	0
87.0	-11.03	-31.56	-14	2.97	0
87.1	-11.12	-31.65	-14	2.88	0
87.2	-11.21	-31.74	-14	2.79	0
87.3	-11.30	-31.83	-14	2.70	0
87.4	-11.39	-31.91	-14	2.61	0
87.5	-11.47	-32.00	-14	2.53	0
87.6	-11.55	-32.08	-14	2.45	0
87.7	-11.64	-32.16	-14	2.36	0
87.8	-11.71	-32.24	-14	2.29	0
87.9	-11.79	-32.32	-14	2.21	0
88.0	-11.86	-32.39	-14	2.14	0
88.1	-11.93	-32.46	-14	2.07	0
88.2	-12.00	-32.52	-14	2.00	0
88.3	-12.06	-32.58	-14	1.94	0
88.4	-12.11	-32.64	-14	1.89	0
88.5	-12.17	-32.69	-14	1.83	0
88.6	-12.22	-32.74	-14	1.78	0
88.7	-12.26	-32.79	-14	1.74	0
88.8	-12.30	-32.83	-14	1.70	0
88.9	-12.34	-32.87	-14	1.66	0
89.0	-12.38	-32.91	-14	1.62	0
89.1	-12.41	-32.94	-14	1.59	0

89.2	-12.44	-32.97	-14	1.56	0
89.3	-12.47	-33.00	-14	1.53	0
89.4	-12.50	-33.03	-14	1.50	0
89.5	-12.53	-33.06	-14	1.47	0
89.6	-12.56	-33.09	-14	1.44	0
89.7	-12.59	-33.12	-14	1.41	0
89.8	-12.62	-33.15	-14	1.38	0
89.9	-12.65	-33.18	-14	1.35	0
90.0	-12.68	-33.21	-14	1.32	0
90.1	-12.72	-33.25	-14	1.28	0
90.2	-12.76	-33.29	-14	1.24	0
90.3	-12.80	-33.33	-14	1.20	0
90.4	-12.85	-33.38	-14	1.15	0
90.5	-12.90	-33.43	-14	1.10	0
90.6	-12.95	-33.48	-14	1.05	0
90.7	-13.01	-33.54	-14	0.99	0
90.8	-13.08	-33.61	-14	0.92	0
90.9	-13.15	-33.68	-14	0.85	0
91.0	-13.23	-33.75	-14	0.77	0
91.1	-13.31	-33.83	-14	0.69	0
91.2	-13.39	-33.92	-14	0.61	0
91.3	-13.48	-34.01	-14	0.52	0
91.4	-13.58	-34.11	-14	0.42	0
91.5	-13.68	-34.21	-14	0.32	0
91.6	-13.79	-34.32	-14	0.21	0
91.7	-13.90	-34.43	-14	0.10	0
91.8	-14.02	-34.55	-14	-0.02	0
91.9	-14.14	-34.66	-14	-0.14	0
92.0	-14.26	-34.79	-14	-0.26	0
92.1	-14.38	-34.91	-14	-0.38	0
92.2	-14.51	-35.04	-14	-0.51	0
92.3	-14.63	-35.16	-14	-0.63	0
92.4	-14.76	-35.29	-14	-0.76	0
92.5	-14.89	-35.41	-14	-0.89	0
92.6	-15.01	-35.54	-14	-1.01	0
92.7	-15.13	-35.66	-14	-1.13	0
92.8	-15.25	-35.78	-14	-1.25	0
92.9	-15.36	-35.89	-14	-1.36	0
93.0	-15.46	-35.99	-14	-1.46	0
93.1	-15.56	-36.09	-14	-1.56	0
93.2	-15.65	-36.18	-14	-1.65	0
93.3	-15.74	-36.26	-14	-1.74	0
93.4	-15.81	-36.34	-14	-1.81	0
93.5	-15.88	-36.40	-14	-1.88	0
93.6	-15.93	-36.46	-14	-1.93	0
93.7	-15.98	-36.51	-14	-1.98	0
93.8	-16.02	-36.54	-14	-2.02	0
93.9	-16.05	-36.57	-14	-2.05	0
94.0	-16.07	-36.60	-14	-2.07	0
94.1	-16.08	-36.61	-14	-2.08	0

94.2	-16.09	-36.62	-14	-2.09	0
94.3	-16.10	-36.62	-14	-2.10	0
94.4	-16.10	-36.63	-14	-2.10	0
94.5	-16.10	-36.62	-14	-2.10	0
94.6	-16.09	-36.62	-14	-2.09	0
94.7	-16.09	-36.62	-14	-2.09	0
94.8	-16.09	-36.62	-14	-2.09	0
94.9	-16.09	-36.62	-14	-2.09	0
95.0	-16.09	-36.62	-14	-2.09	0
95.1	-16.10	-36.63	-14	-2.10	0
95.2	-16.12	-36.64	-14	-2.12	0
95.3	-16.14	-36.66	-14	-2.14	0
95.4	-16.16	-36.69	-14	-2.16	0
95.5	-16.20	-36.73	-14	-2.20	0
95.6	-16.24	-36.77	-14	-2.24	0
95.7	-16.30	-36.83	-14	-2.30	0
95.8	-16.36	-36.89	-14	-2.36	0
95.9	-16.43	-36.96	-14	-2.43	0
96.0	-16.52	-37.04	-14	-2.52	0
96.1	-16.61	-37.14	-14	-2.61	0
96.2	-16.71	-37.24	-14	-2.71	0
96.3	-16.83	-37.35	-14	-2.83	0
96.4	-16.95	-37.48	-14	-2.95	0
96.5	-17.08	-37.61	-14	-3.08	0
96.6	-17.23	-37.76	-14	-3.23	0
96.7	-17.38	-37.91	-14	-3.38	0
96.8	-17.54	-38.07	-14	-3.54	0
96.9	-17.71	-38.24	-14	-3.71	0
97.0	-17.88	-38.41	-14	-3.88	0
97.1	-18.06	-38.59	-14	-4.06	0
97.2	-18.24	-38.77	-14	-4.24	0
97.3	-18.43	-38.96	-14	-4.43	0
97.4	-18.61	-39.14	-14	-4.61	0
97.5	-18.79	-39.32	-14	-4.79	0
97.6	-18.96	-39.49	-14	-4.96	0
97.7	-19.13	-39.66	-14	-5.13	0
97.8	-19.28	-39.81	-14	-5.28	0
97.9	-19.42	-39.95	-14	-5.42	0
98.0	-19.55	-40.08	-14	-5.55	0
98.1	-19.66	-40.19	-14	-5.66	0
98.2	-19.75	-40.27	-14	-5.75	0
98.3	-19.81	-40.34	-14	-5.81	0
98.4	-19.86	-40.39	-14	-5.86	0
98.5	-19.89	-40.42	-14	-5.89	0
98.6	-19.90	-40.43	-14	-5.90	0
98.7	-19.89	-40.42	-14	-5.89	0
98.8	-19.87	-40.40	-14	-5.87	0
98.9	-19.84	-40.36	-14	-5.84	0
99.0	-19.79	-40.32	-14	-5.79	0
99.1	-19.74	-40.27	-14	-5.74	0

99.2	-19.68	-40.21	-14	-5.68	0
99.3	-19.63	-40.16	-14	-5.63	0
99.4	-19.57	-40.10	-14	-5.57	0
99.5	-19.52	-40.05	-14	-5.52	0
99.6	-19.48	-40.01	-14	-5.48	0
99.7	-19.44	-39.97	-14	-5.44	0
99.8	-19.42	-39.94	-14	-5.42	0
99.9	-19.40	-39.93	-14	-5.40	0
100.0	-19.41	-39.93	-14	-5.41	0
100.1	-19.42	-39.95	-14	-5.42	0
100.2	-19.45	-39.98	-14	-5.45	0
100.3	-19.50	-40.03	-14	-5.50	0
100.4	-19.57	-40.10	-14	-5.57	0
100.5	-19.66	-40.19	-14	-5.66	0
100.6	-19.76	-40.29	-14	-5.76	0
100.7	-19.89	-40.42	-14	-5.89	0
100.8	-20.04	-40.56	-14	-6.04	0
100.9	-20.20	-40.73	-14	-6.20	0
101.0	-20.39	-40.91	-14	-6.39	0
101.1	-20.59	-41.12	-14	-6.59	0
101.2	-20.81	-41.34	-14	-6.81	0
101.3	-21.05	-41.58	-14	-7.05	0
101.4	-21.30	-41.83	-14	-7.30	0
101.5	-21.57	-42.10	-14	-7.57	0
101.6	-21.85	-42.37	-14	-7.85	0
101.7	-22.13	-42.65	-14	-8.13	0
101.8	-22.41	-42.93	-14	-8.41	0
101.9	-22.68	-43.21	-14	-8.68	0
102.0	-22.94	-43.47	-14	-8.94	0
102.1	-23.18	-43.70	-14	-9.18	0
102.2	-23.38	-43.91	-14	-9.38	0
102.3	-23.55	-44.08	-14	-9.55	0
102.4	-23.67	-44.20	-14	-9.67	0
102.5	-23.74	-44.27	-14	-9.74	0
102.6	-23.76	-44.29	-14	-9.76	0
102.7	-23.73	-44.25	-14	-9.73	0
102.8	-23.64	-44.17	-14	-9.64	0
102.9	-23.51	-44.04	-14	-9.51	0
103.0	-23.35	-43.88	-14	-9.35	0
103.1	-23.16	-43.69	-14	-9.16	0
103.2	-22.96	-43.49	-14	-8.96	0
103.3	-22.74	-43.27	-14	-8.74	0
103.4	-22.53	-43.06	-14	-8.53	0
103.5	-22.32	-42.84	-14	-8.32	0
103.6	-22.11	-42.64	-14	-8.11	0
103.7	-21.93	-42.45	-14	-7.93	0
103.8	-21.76	-42.29	-14	-7.76	0
103.9	-21.61	-42.14	-14	-7.61	0
104.0	-21.48	-42.01	-14	-7.48	0
104.1	-21.38	-41.91	-14	-7.38	0

104.2	-21.31	-41.84	-14	-7.31	0
104.3	-21.26	-41.79	-14	-7.26	0
104.4	-21.24	-41.77	-14	-7.24	0
104.5	-21.25	-41.77	-14	-7.25	0
104.6	-21.28	-41.81	-14	-7.28	0
104.7	-21.35	-41.87	-14	-7.35	0
104.8	-21.44	-41.97	-14	-7.44	0
104.9	-21.56	-42.09	-14	-7.56	0
105.0	-21.71	-42.24	-14	-7.71	0
105.1	-21.89	-42.41	-14	-7.89	0
105.2	-22.09	-42.61	-14	-8.09	0
105.3	-22.31	-42.84	-14	-8.31	0
105.4	-22.55	-43.08	-14	-8.55	0
105.5	-22.81	-43.34	-14	-8.81	0
105.6	-23.08	-43.61	-14	-9.08	0
105.7	-23.35	-43.88	-14	-9.35	0
105.8	-23.61	-44.14	-14	-9.61	0
105.9	-23.86	-44.38	-14	-9.86	0
106.0	-24.07	-44.60	-14	-10.07	0
106.1	-24.25	-44.78	-14	-10.25	0
106.2	-24.37	-44.90	-14	-10.37	0
106.3	-24.43	-44.96	-14	-10.43	0
106.4	-24.42	-44.95	-14	-10.42	0
106.5	-24.34	-44.87	-14	-10.34	0
106.6	-24.20	-44.73	-14	-10.20	0
106.7	-24.00	-44.53	-14	-10.00	0
106.8	-23.76	-44.29	-14	-9.76	0
106.9	-23.48	-44.01	-14	-9.48	0
107.0	-23.19	-43.72	-14	-9.19	0
107.1	-22.89	-43.42	-14	-8.89	0
107.2	-22.59	-43.12	-14	-8.59	0
107.3	-22.30	-42.83	-14	-8.30	0
107.4	-22.02	-42.55	-14	-8.02	0
107.5	-21.77	-42.30	-14	-7.77	0
107.6	-21.54	-42.07	-14	-7.54	0
107.7	-21.34	-41.87	-14	-7.34	0
107.8	-21.17	-41.70	-14	-7.17	0
107.9	-21.03	-41.56	-14	-7.03	0
108.0	-20.92	-41.45	-14	-6.92	0
108.1	-20.85	-41.38	-14	-6.85	0
108.2	-20.81	-41.34	-14	-6.81	0
108.3	-20.81	-41.34	-14	-6.81	0
108.4	-20.85	-41.38	-14	-6.85	0
108.5	-20.92	-41.45	-14	-6.92	0
108.6	-21.03	-41.56	-14	-7.03	0
108.7	-21.18	-41.70	-14	-7.18	0
108.8	-21.36	-41.89	-14	-7.36	0
108.9	-21.59	-42.11	-14	-7.59	0
109.0	-21.85	-42.38	-14	-7.85	0
109.1	-22.15	-42.68	-14	-8.15	0

109.2	-22.49	-43.02	-14	-8.49	0
109.3	-22.86	-43.39	-14	-8.86	0
109.4	-23.27	-43.80	-14	-9.27	0
109.5	-23.70	-44.23	-14	-9.70	0
109.6	-24.15	-44.68	-14	-10.15	0
109.7	-24.61	-45.14	-14	-10.61	0
109.8	-25.06	-45.58	-14	-11.06	0
109.9	-25.47	-46.00	-14	-11.47	0
110.0	-25.84	-46.37	-14	-11.84	0
110.1	-26.12	-46.65	-14	-12.12	0
110.2	-26.31	-46.83	-14	-12.31	0
110.3	-26.37	-46.90	-14	-12.37	0
110.4	-26.33	-46.85	-14	-12.33	0
110.5	-26.17	-46.70	-14	-12.17	0
110.6	-25.93	-46.46	-14	-11.93	0
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110.8	-25.30	-45.82	-14	-11.30	0
110.9	-24.95	-45.48	-14	-10.95	0
111.0	-24.61	-45.14	-14	-10.61	0
111.1	-24.29	-44.82	-14	-10.29	0
111.2	-24.01	-44.53	-14	-10.01	0
111.3	-23.76	-44.28	-14	-9.76	0
111.4	-23.55	-44.08	-14	-9.55	0
111.5	-23.39	-43.91	-14	-9.39	0
111.6	-23.27	-43.80	-14	-9.27	0
111.7	-23.21	-43.74	-14	-9.21	0
111.8	-23.20	-43.73	-14	-9.20	0
111.9	-23.24	-43.77	-14	-9.24	0
112.0	-23.34	-43.87	-14	-9.34	0
112.1	-23.50	-44.02	-14	-9.50	0
112.2	-23.71	-44.24	-14	-9.71	0
112.3	-23.98	-44.51	-14	-9.98	0
112.4	-24.32	-44.85	-14	-10.32	0
112.5	-24.72	-45.25	-14	-10.72	0
112.6	-25.18	-45.71	-14	-11.18	0
112.7	-25.71	-46.24	-14	-11.71	0
112.8	-26.29	-46.82	-14	-12.29	0
112.9	-26.92	-47.45	-14	-12.92	0
113.0	-27.58	-48.11	-14	-13.58	0
113.1	-28.24	-48.77	-14	-14.24	0
113.2	-28.84	-49.37	-14	-14.84	0
113.3	-29.31	-49.84	-14	-15.31	0
113.4	-29.58	-50.11	-14	-15.58	0
113.5	-29.59	-50.12	-14	-15.59	0
113.6	-29.34	-49.87	-14	-15.34	0
113.7	-28.88	-49.40	-14	-14.88	0
113.8	-28.27	-48.80	-14	-14.27	0
113.9	-27.59	-48.12	-14	-13.59	0
114.0	-26.90	-47.43	-14	-12.90	0
114.1	-26.24	-46.77	-14	-12.24	0

114.2	-25.62	-46.15	-14	-11.62	0
114.3	-25.06	-45.59	-14	-11.06	0
114.4	-24.56	-45.09	-14	-10.56	0
114.5	-24.13	-44.66	-14	-10.13	0
114.6	-23.76	-44.29	-14	-9.76	0
114.7	-23.45	-43.98	-14	-9.45	0
114.8	-23.21	-43.73	-14	-9.21	0
114.9	-23.02	-43.55	-14	-9.02	0
115.0	-22.89	-43.42	-14	-8.89	0
115.1	-22.83	-43.35	-14	-8.83	0
115.2	-22.81	-43.34	-14	-8.81	0
115.3	-22.85	-43.38	-14	-8.85	0
115.4	-22.95	-43.47	-14	-8.95	0
115.5	-23.09	-43.62	-14	-9.09	0
115.6	-23.29	-43.81	-14	-9.29	0
115.7	-23.53	-44.06	-14	-9.53	0
115.8	-23.82	-44.35	-14	-9.82	0
115.9	-24.15	-44.68	-14	-10.15	0
116.0	-24.51	-45.04	-14	-10.51	0
116.1	-24.91	-45.44	-14	-10.91	0
116.2	-25.32	-45.84	-14	-11.32	0
116.3	-25.73	-46.25	-14	-11.73	0
116.4	-26.12	-46.64	-14	-12.12	0
116.5	-26.47	-46.99	-14	-12.47	0
116.6	-26.75	-47.28	-14	-12.75	0
116.7	-26.95	-47.48	-14	-12.95	0
116.8	-27.05	-47.58	-14	-13.05	0
116.9	-27.05	-47.58	-14	-13.05	0
117.0	-26.96	-47.49	-14	-12.96	0
117.1	-26.79	-47.32	-14	-12.79	0
117.2	-26.57	-47.09	-14	-12.57	0
117.3	-26.31	-46.84	-14	-12.31	0
117.4	-26.04	-46.57	-14	-12.04	0
117.5	-25.79	-46.31	-14	-11.79	0
117.6	-25.55	-46.08	-14	-11.55	0
117.7	-25.34	-45.87	-14	-11.34	0
117.8	-25.17	-45.70	-14	-11.17	0
117.9	-25.05	-45.57	-14	-11.05	0
118.0	-24.96	-45.49	-14	-10.96	0
118.1	-24.93	-45.46	-14	-10.93	0
118.2	-24.94	-45.47	-14	-10.94	0
118.3	-25.00	-45.53	-14	-11.00	0
118.4	-25.10	-45.63	-14	-11.10	0
118.5	-25.25	-45.78	-14	-11.25	0
118.6	-25.44	-45.97	-14	-11.44	0
118.7	-25.67	-46.20	-14	-11.67	0
118.8	-25.93	-46.46	-14	-11.93	0
118.9	-26.23	-46.75	-14	-12.23	0
119.0	-26.54	-47.07	-14	-12.54	0
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119.2	-27.20	-47.73	-14	-13.20	0
119.3	-27.52	-48.05	-14	-13.52	0
119.4	-27.82	-48.35	-14	-13.82	0
119.5	-28.08	-48.61	-14	-14.08	0
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120.0	-28.63	-49.16	-14	-14.63	0
120.1	-28.58	-49.11	-14	-14.58	0
120.2	-28.49	-49.02	-14	-14.49	0
120.3	-28.37	-48.90	-14	-14.37	0
120.4	-28.23	-48.75	-14	-14.23	0
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120.7	-27.68	-48.21	-14	-13.68	0
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120.9	-27.25	-47.78	-14	-13.25	0
121.0	-27.02	-47.55	-14	-13.02	0
121.1	-26.77	-47.30	-14	-12.77	0
121.2	-26.52	-47.05	-14	-12.52	0
121.3	-26.26	-46.78	-14	-12.26	0
121.4	-25.99	-46.52	-14	-11.99	0
121.5	-25.73	-46.26	-14	-11.73	0
121.6	-25.47	-46.00	-14	-11.47	0
121.7	-25.23	-45.76	-14	-11.23	0
121.8	-25.01	-45.54	-14	-11.01	0
121.9	-24.82	-45.35	-14	-10.82	0
122.0	-24.66	-45.18	-14	-10.66	0
122.1	-24.53	-45.06	-14	-10.53	0
122.2	-24.45	-44.97	-14	-10.45	0
122.3	-24.41	-44.94	-14	-10.41	0
122.4	-24.42	-44.95	-14	-10.42	0
122.5	-24.50	-45.02	-14	-10.50	0
122.6	-24.63	-45.16	-14	-10.63	0
122.7	-24.83	-45.36	-14	-10.83	0
122.8	-25.10	-45.63	-14	-11.10	0
122.9	-25.44	-45.97	-14	-11.44	0
123.0	-25.86	-46.39	-14	-11.86	0
123.1	-26.36	-46.89	-14	-12.36	0
123.2	-26.94	-47.47	-14	-12.94	0
123.3	-27.60	-48.12	-14	-13.60	0
123.4	-28.31	-48.83	-14	-14.31	0
123.5	-29.04	-49.57	-14	-15.04	0
123.6	-29.73	-50.26	-14	-15.73	0
123.7	-30.28	-50.81	-14	-16.28	0
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123.9	-30.59	-51.12	-14	-16.59	0
124.0	-30.25	-50.78	-14	-16.25	0
124.1	-29.68	-50.20	-14	-15.68	0

124.2	-28.96	-49.49	-14	-14.96	0
124.3	-28.21	-48.74	-14	-14.21	0
124.4	-27.49	-48.02	-14	-13.49	0
124.5	-26.84	-47.37	-14	-12.84	0
124.6	-26.27	-46.80	-14	-12.27	0
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125.0	-24.98	-45.51	-14	-10.98	0
125.1	-24.91	-45.44	-14	-10.91	0
125.2	-24.95	-45.48	-14	-10.95	0
125.3	-25.09	-45.62	-14	-11.09	0
125.4	-25.35	-45.88	-14	-11.35	0
125.5	-25.72	-46.25	-14	-11.72	0
125.6	-26.22	-46.75	-14	-12.22	0
125.7	-26.85	-47.38	-14	-12.85	0
125.8	-27.62	-48.15	-14	-13.62	0
125.9	-28.53	-49.05	-14	-14.53	0
126.0	-29.55	-50.08	-14	-15.55	0
126.1	-30.65	-51.18	-14	-16.65	0
126.2	-31.68	-52.20	-14	-17.68	0
126.3	-32.39	-52.92	-14	-18.39	0
126.4	-32.51	-53.04	-14	-18.51	0
126.5	-31.97	-52.50	-14	-17.97	0
126.6	-31.00	-51.52	-14	-17.00	0
126.7	-29.86	-50.38	-14	-15.86	0
126.8	-28.74	-49.27	-14	-14.74	0
126.9	-27.72	-48.25	-14	-13.72	0
127.0	-26.85	-47.38	-14	-12.85	0
127.1	-26.11	-46.64	-14	-12.11	0
127.2	-25.51	-46.03	-14	-11.51	0
127.3	-25.03	-45.56	-14	-11.03	0
127.4	-24.67	-45.20	-14	-10.67	0
127.5	-24.43	-44.96	-14	-10.43	0
127.6	-24.29	-44.82	-14	-10.29	0
127.7	-24.26	-44.79	-14	-10.26	0
127.8	-24.33	-44.86	-14	-10.33	0
127.9	-24.50	-45.02	-14	-10.50	0
128.0	-24.76	-45.28	-14	-10.76	0
128.1	-25.11	-45.63	-14	-11.11	0
128.2	-25.54	-46.07	-14	-11.54	0
128.3	-26.05	-46.58	-14	-12.05	0
128.4	-26.63	-47.15	-14	-12.63	0
128.5	-27.24	-47.77	-14	-13.24	0
128.6	-27.87	-48.39	-14	-13.87	0
128.7	-28.45	-48.98	-14	-14.45	0
128.8	-28.96	-49.49	-14	-14.96	0
128.9	-29.33	-49.85	-14	-15.33	0
129.0	-29.53	-50.06	-14	-15.53	0
129.1	-29.57	-50.10	-14	-15.57	0

129.2	-29.49	-50.01	-14	-15.49	0
129.3	-29.33	-49.85	-14	-15.33	0
129.4	-29.14	-49.67	-14	-15.14	0
129.5	-28.98	-49.51	-14	-14.98	0
129.6	-28.87	-49.40	-14	-14.87	0
129.7	-28.83	-49.35	-14	-14.83	0
129.8	-28.86	-49.39	-14	-14.86	0
129.9	-28.97	-49.50	-14	-14.97	0
130.0	-29.14	-49.66	-14	-15.14	0
130.1	-29.33	-49.86	-14	-15.33	0
130.2	-29.52	-50.05	-14	-15.52	0
130.3	-29.64	-50.16	-14	-15.64	0
130.4	-29.63	-50.16	-14	-15.63	0
130.5	-29.45	-49.98	-14	-15.45	0
130.6	-29.09	-49.62	-14	-15.09	0
130.7	-28.58	-49.11	-14	-14.58	0
130.8	-27.97	-48.50	-14	-13.97	0
130.9	-27.33	-47.86	-14	-13.33	0
131.0	-26.70	-47.22	-14	-12.70	0
131.1	-26.11	-46.64	-14	-12.11	0
131.2	-25.61	-46.14	-14	-11.61	0
131.3	-25.20	-45.72	-14	-11.20	0
131.4	-24.89	-45.42	-14	-10.89	0
131.5	-24.70	-45.23	-14	-10.70	0
131.6	-24.63	-45.15	-14	-10.63	0
131.7	-24.69	-45.22	-14	-10.69	0
131.8	-24.89	-45.42	-14	-10.89	0
131.9	-25.24	-45.77	-14	-11.24	0
132.0	-25.77	-46.30	-14	-11.77	0
132.1	-26.50	-47.03	-14	-12.50	0
132.2	-27.47	-48.00	-14	-13.47	0
132.3	-28.73	-49.25	-14	-14.73	0
132.4	-30.34	-50.87	-14	-16.34	0
132.5	-32.38	-52.91	-14	-18.38	0
132.6	-34.79	-55.32	-14	-20.79	0
132.7	-36.72	-57.25	-14	-22.72	0
132.8	-36.25	-56.78	-14	-22.25	0
132.9	-33.86	-54.39	-14	-19.86	0
133.0	-31.37	-51.90	-14	-17.37	0
133.1	-29.31	-49.83	-14	-15.31	0
133.2	-27.65	-48.18	-14	-13.65	0
133.3	-26.34	-46.87	-14	-12.34	0
133.4	-25.31	-45.84	-14	-11.31	0
133.5	-24.52	-45.04	-14	-10.52	0
133.6	-23.92	-44.45	-14	-9.92	0
133.7	-23.50	-44.03	-14	-9.50	0
133.8	-23.26	-43.79	-14	-9.26	0
133.9	-23.17	-43.70	-14	-9.17	0
134.0	-23.25	-43.78	-14	-9.25	0
134.1	-23.49	-44.02	-14	-9.49	0

134.2	-23.91	-44.44	-14	-9.91	0
134.3	-24.51	-45.04	-14	-10.51	0
134.4	-25.34	-45.87	-14	-11.34	0
134.5	-26.42	-46.95	-14	-12.42	0
134.6	-27.83	-48.36	-14	-13.83	0
134.7	-29.67	-50.20	-14	-15.67	0
134.8	-32.14	-52.66	-14	-18.14	0
134.9	-35.54	-56.07	-14	-21.54	0
135.0	-39.91	-60.44	-14	-25.91	0
135.1	-40.63	-61.16	-14	-26.63	0
135.2	-36.47	-57.00	-14	-22.47	0
135.3	-33.02	-53.54	-14	-19.02	0
135.4	-30.57	-51.10	-14	-16.57	0
135.5	-28.79	-49.32	-14	-14.79	0
135.6	-27.48	-48.00	-14	-13.48	0
135.7	-26.50	-47.03	-14	-12.50	0
135.8	-25.80	-46.33	-14	-11.80	0
135.9	-25.33	-45.85	-14	-11.33	0
136.0	-25.04	-45.57	-14	-11.04	0
136.1	-24.93	-45.46	-14	-10.93	0
136.2	-24.97	-45.50	-14	-10.97	0
136.3	-25.16	-45.68	-14	-11.16	0
136.4	-25.46	-45.99	-14	-11.46	0
136.5	-25.86	-46.39	-14	-11.86	0
136.6	-26.33	-46.86	-14	-12.33	0
136.7	-26.83	-47.36	-14	-12.83	0
136.8	-27.29	-47.82	-14	-13.29	0
136.9	-27.66	-48.19	-14	-13.66	0
137.0	-27.88	-48.41	-14	-13.88	0
137.1	-27.94	-48.47	-14	-13.94	0
137.2	-27.86	-48.39	-14	-13.86	0
137.3	-27.70	-48.23	-14	-13.70	0
137.4	-27.53	-48.06	-14	-13.53	0
137.5	-27.42	-47.95	-14	-13.42	0
137.6	-27.41	-47.94	-14	-13.41	0
137.7	-27.55	-48.08	-14	-13.55	0
137.8	-27.88	-48.41	-14	-13.88	0
137.9	-28.45	-48.98	-14	-14.45	0
138.0	-29.30	-49.82	-14	-15.30	0
138.1	-30.49	-51.02	-14	-16.49	0
138.2	-32.12	-52.65	-14	-18.12	0
138.3	-34.21	-54.74	-14	-20.21	0
138.4	-36.42	-56.95	-14	-22.42	0
138.5	-37.04	-57.56	-14	-23.04	0
138.6	-35.00	-55.52	-14	-21.00	0
138.7	-32.23	-52.76	-14	-18.23	0
138.8	-29.81	-50.34	-14	-15.81	0
138.9	-27.87	-48.39	-14	-13.87	0
139.0	-26.31	-46.84	-14	-12.31	0
139.1	-25.09	-45.62	-14	-11.09	0

139.2	-24.13	-44.66	-14	-10.13	0
139.3	-23.40	-43.93	-14	-9.40	0
139.4	-22.88	-43.41	-14	-8.88	0
139.5	-22.56	-43.09	-14	-8.56	0
139.6	-22.42	-42.95	-14	-8.42	0
139.7	-22.47	-43.00	-14	-8.47	0
139.8	-22.71	-43.23	-14	-8.71	0
139.9	-23.15	-43.68	-14	-9.15	0
140.0	-23.83	-44.36	-14	-9.83	0
140.1	-24.79	-45.32	-14	-10.79	0
140.2	-26.09	-46.61	-14	-12.09	0
140.3	-27.85	-48.38	-14	-13.85	0
140.4	-30.33	-50.85	-14	-16.33	0
140.5	-34.07	-54.60	-14	-20.07	0
140.6	-41.05	-61.58	-14	-27.05	0
140.7	-48.33	-68.86	-14	-34.33	0
140.8	-36.97	-57.50	-14	-22.97	0
140.9	-32.12	-52.65	-14	-18.12	0
141.0	-29.19	-49.72	-14	-15.19	0
141.1	-27.18	-47.71	-14	-13.18	0
141.2	-25.74	-46.27	-14	-11.74	0
141.3	-24.71	-45.24	-14	-10.71	0
141.4	-23.99	-44.52	-14	-9.99	0
141.5	-23.53	-44.06	-14	-9.53	0
141.6	-23.30	-43.83	-14	-9.30	0
141.7	-23.29	-43.81	-14	-9.29	0
141.8	-23.48	-44.00	-14	-9.48	0
141.9	-23.87	-44.39	-14	-9.87	0
142.0	-24.46	-44.99	-14	-10.46	0
142.1	-25.27	-45.80	-14	-11.27	0
142.2	-26.29	-46.82	-14	-12.29	0
142.3	-27.50	-48.03	-14	-13.50	0
142.4	-28.86	-49.39	-14	-14.86	0
142.5	-30.19	-50.72	-14	-16.19	0
142.6	-31.16	-51.69	-14	-17.16	0
142.7	-31.44	-51.97	-14	-17.44	0
142.8	-31.01	-51.54	-14	-17.01	0
142.9	-30.22	-50.75	-14	-16.22	0
143.0	-29.42	-49.95	-14	-15.42	0
143.1	-28.79	-49.32	-14	-14.79	0
143.2	-28.41	-48.93	-14	-14.41	0
143.3	-28.31	-48.83	-14	-14.31	0
143.4	-28.51	-49.04	-14	-14.51	0
143.5	-29.05	-49.58	-14	-15.05	0
143.6	-29.95	-50.48	-14	-15.95	0
143.7	-31.25	-51.78	-14	-17.25	0
143.8	-32.89	-53.42	-14	-18.89	0
143.9	-34.44	-54.96	-14	-20.44	0
144.0	-34.69	-55.22	-14	-20.69	0
144.1	-33.10	-53.62	-14	-19.10	0

144.2	-30.80	-51.33	-14	-16.80	0
144.3	-28.67	-49.20	-14	-14.67	0
144.4	-26.90	-47.43	-14	-12.90	0
144.5	-25.49	-46.02	-14	-11.49	0
144.6	-24.39	-44.92	-14	-10.39	0
144.7	-23.56	-44.09	-14	-9.56	0
144.8	-22.98	-43.51	-14	-8.98	0
144.9	-22.63	-43.15	-14	-8.63	0
145.0	-22.49	-43.02	-14	-8.49	0
145.1	-22.58	-43.11	-14	-8.58	0
145.2	-22.91	-43.43	-14	-8.91	0
145.3	-23.48	-44.01	-14	-9.48	0
145.4	-24.36	-44.89	-14	-10.36	0
145.5	-25.60	-46.13	-14	-11.60	0
145.6	-27.33	-47.86	-14	-13.33	0
145.7	-29.79	-50.32	-14	-15.79	0
145.8	-33.58	-54.11	-14	-19.58	0
145.9	-40.80	-61.32	-14	-26.80	0
146.0	-47.40	-67.93	-14	-33.40	0
146.1	-36.14	-56.66	-14	-22.14	0
146.2	-31.40	-51.93	-14	-17.40	0
146.3	-28.55	-49.08	-14	-14.55	0
146.4	-26.63	-47.16	-14	-12.63	0
146.5	-25.30	-45.83	-14	-11.30	0
146.6	-24.39	-44.92	-14	-10.39	0
146.7	-23.83	-44.35	-14	-9.83	0
146.8	-23.55	-44.08	-14	-9.55	0
146.9	-23.55	-44.08	-14	-9.55	0
147.0	-23.81	-44.34	-14	-9.81	0
147.1	-24.35	-44.88	-14	-10.35	0
147.2	-25.18	-45.70	-14	-11.18	0
147.3	-26.32	-46.85	-14	-12.32	0
147.4	-27.82	-48.35	-14	-13.82	0
147.5	-29.67	-50.20	-14	-15.67	0
147.6	-31.64	-52.17	-14	-17.64	0
147.7	-32.90	-53.43	-14	-18.90	0
147.8	-32.45	-52.98	-14	-18.45	0
147.9	-30.81	-51.34	-14	-16.81	0
148.0	-29.07	-49.60	-14	-15.07	0
148.1	-27.63	-48.16	-14	-13.63	0
148.2	-26.58	-47.11	-14	-12.58	0
148.3	-25.88	-46.41	-14	-11.88	0
148.4	-25.53	-46.05	-14	-11.53	0
148.5	-25.50	-46.02	-14	-11.50	0
148.6	-25.80	-46.33	-14	-11.80	0
148.7	-26.47	-47.00	-14	-12.47	0
148.8	-27.58	-48.10	-14	-13.58	0
148.9	-29.24	-49.77	-14	-15.24	0
149.0	-31.68	-52.21	-14	-17.68	0
149.1	-35.24	-55.77	-14	-21.24	0

149.2	-38.97	-59.50	-14	-24.97	0
149.3	-36.77	-57.30	-14	-22.77	0
149.4	-32.51	-53.03	-14	-18.51	0
149.5	-29.37	-49.90	-14	-15.37	0
149.6	-27.15	-47.67	-14	-13.15	0
149.7	-25.54	-46.07	-14	-11.54	0
149.8	-24.39	-44.92	-14	-10.39	0
149.9	-23.61	-44.14	-14	-9.61	0
150.0	-23.14	-43.67	-14	-9.14	0
150.1	-22.97	-43.49	-14	-8.97	0
150.2	-23.07	-43.60	-14	-9.07	0
150.3	-23.46	-43.99	-14	-9.46	0
150.4	-24.18	-44.71	-14	-10.18	0
150.5	-25.27	-45.80	-14	-11.27	0
150.6	-26.85	-47.37	-14	-12.85	0
150.7	-29.10	-49.63	-14	-15.10	0
150.8	-32.47	-53.00	-14	-18.47	0
150.9	-37.93	-58.46	-14	-23.93	0
151.0	-42.05	-62.58	-14	-28.05	0
151.1	-35.65	-56.18	-14	-21.65	0
151.2	-31.25	-51.78	-14	-17.25	0
151.3	-28.50	-49.03	-14	-14.50	0
151.4	-26.67	-47.19	-14	-12.67	0
151.5	-25.44	-45.97	-14	-11.44	0
151.6	-24.67	-45.20	-14	-10.67	0
151.7	-24.28	-44.81	-14	-10.28	0
151.8	-24.24	-44.77	-14	-10.24	0
151.9	-24.55	-45.08	-14	-10.55	0
152.0	-25.23	-45.76	-14	-11.23	0
152.1	-26.34	-46.87	-14	-12.34	0
152.2	-27.99	-48.52	-14	-13.99	0
152.3	-30.36	-50.88	-14	-16.36	0
152.4	-33.63	-54.15	-14	-19.63	0
152.5	-36.66	-57.19	-14	-22.66	0
152.6	-34.98	-55.51	-14	-20.98	0
152.7	-31.30	-51.83	-14	-17.30	0
152.8	-28.42	-48.95	-14	-14.42	0
152.9	-26.34	-46.87	-14	-12.34	0
153.0	-24.86	-45.39	-14	-10.86	0
153.1	-23.84	-44.36	-14	-9.84	0
153.2	-23.18	-43.71	-14	-9.18	0
153.3	-22.86	-43.39	-14	-8.86	0
153.4	-22.85	-43.37	-14	-8.85	0
153.5	-23.15	-43.67	-14	-9.15	0
153.6	-23.79	-44.31	-14	-9.79	0
153.7	-24.82	-45.35	-14	-10.82	0
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153.9	-28.61	-49.14	-14	-14.61	0
154.0	-32.08	-52.61	-14	-18.08	0
154.1	-38.40	-58.93	-14	-24.40	0

154.2	-48.14	-68.67	-14	-34.14	0
154.3	-36.20	-56.73	-14	-22.20	0
154.4	-31.13	-51.66	-14	-17.13	0
154.5	-28.19	-48.72	-14	-14.19	0
154.6	-26.29	-46.82	-14	-12.29	0
154.7	-25.05	-45.58	-14	-11.05	0
154.8	-24.29	-44.81	-14	-10.29	0
154.9	-23.93	-44.46	-14	-9.93	0
155.0	-23.94	-44.47	-14	-9.94	0
155.1	-24.31	-44.84	-14	-10.31	0
155.2	-25.08	-45.61	-14	-11.08	0
155.3	-26.31	-46.84	-14	-12.31	0
155.4	-28.09	-48.62	-14	-14.09	0
155.5	-30.53	-51.06	-14	-16.53	0
155.6	-33.37	-53.90	-14	-19.37	0
155.7	-34.32	-54.85	-14	-20.32	0
155.8	-31.88	-52.41	-14	-17.88	0
155.9	-28.95	-49.48	-14	-14.95	0
156.0	-26.66	-47.18	-14	-12.66	0
156.1	-24.97	-45.50	-14	-10.97	0
156.2	-23.79	-44.31	-14	-9.79	0
156.3	-23.00	-43.53	-14	-9.00	0
156.4	-22.58	-43.11	-14	-8.58	0
156.5	-22.49	-43.01	-14	-8.49	0
156.6	-22.73	-43.26	-14	-8.73	0
156.7	-23.33	-43.86	-14	-9.33	0
156.8	-24.34	-44.87	-14	-10.34	0
156.9	-25.89	-46.42	-14	-11.89	0
157.0	-28.21	-48.74	-14	-14.21	0
157.1	-31.86	-52.39	-14	-17.86	0
157.2	-38.55	-59.08	-14	-24.55	0
157.3	-42.20	-62.72	-14	-28.20	0
157.4	-33.64	-54.17	-14	-19.64	0
157.5	-29.19	-49.72	-14	-15.19	0
157.6	-26.46	-46.99	-14	-12.46	0
157.7	-24.64	-45.16	-14	-10.64	0
157.8	-23.41	-43.94	-14	-9.41	0
157.9	-22.63	-43.16	-14	-8.63	0
158.0	-22.23	-42.76	-14	-8.23	0
158.1	-22.17	-42.69	-14	-8.17	0
158.2	-22.43	-42.96	-14	-8.43	0
158.3	-23.04	-43.57	-14	-9.04	0
158.4	-24.02	-44.55	-14	-10.02	0
158.5	-25.43	-45.96	-14	-11.43	0
158.6	-27.35	-47.87	-14	-13.35	0
158.7	-29.74	-50.27	-14	-15.74	0
158.8	-31.97	-52.50	-14	-17.97	0
158.9	-32.12	-52.65	-14	-18.12	0
159.0	-30.11	-50.63	-14	-16.11	0
159.1	-27.87	-48.40	-14	-13.87	0

159.2	-26.11	-46.64	-14	-12.11	0
159.3	-24.88	-45.41	-14	-10.88	0
159.4	-24.12	-44.65	-14	-10.12	0
159.5	-23.78	-44.31	-14	-9.78	0
159.6	-23.85	-44.37	-14	-9.85	0
159.7	-24.34	-44.87	-14	-10.34	0
159.8	-25.34	-45.87	-14	-11.34	0
159.9	-26.99	-47.51	-14	-12.99	0
160.0	-29.63	-50.16	-14	-15.63	0
160.1	-34.25	-54.78	-14	-20.25	0
160.2	-44.85	-65.37	-14	-30.85	0
160.3	-37.59	-58.11	-14	-23.59	0
160.4	-30.76	-51.28	-14	-16.76	0
160.5	-27.02	-47.55	-14	-13.02	0
160.6	-24.59	-45.12	-14	-10.59	0
160.7	-22.90	-43.43	-14	-8.90	0
160.8	-21.73	-42.26	-14	-7.73	0
160.9	-20.97	-41.50	-14	-6.97	0
161.0	-20.56	-41.09	-14	-6.56	0
161.1	-20.46	-40.99	-14	-6.46	0
161.2	-20.68	-41.21	-14	-6.68	0
161.3	-21.23	-41.76	-14	-7.23	0
161.4	-22.14	-42.67	-14	-8.14	0
161.5	-23.51	-44.03	-14	-9.51	0
161.6	-25.47	-46.00	-14	-11.47	0
161.7	-28.33	-48.86	-14	-14.33	0
161.8	-32.82	-53.35	-14	-18.82	0
161.9	-39.94	-60.46	-14	-25.94	0
162.0	-36.68	-57.21	-14	-22.68	0
162.1	-31.09	-51.61	-14	-17.09	0
162.2	-27.86	-48.39	-14	-13.86	0
162.3	-25.87	-46.40	-14	-11.87	0
162.4	-24.66	-45.19	-14	-10.66	0
162.5	-24.03	-44.56	-14	-10.03	0
162.6	-23.89	-44.42	-14	-9.89	0
162.7	-24.23	-44.76	-14	-10.23	0
162.8	-25.09	-45.62	-14	-11.09	0
162.9	-26.60	-47.12	-14	-12.60	0
163.0	-29.02	-49.55	-14	-15.02	0
163.1	-32.98	-53.51	-14	-18.98	0
163.2	-38.73	-59.25	-14	-24.73	0
163.3	-35.54	-56.07	-14	-21.54	0
163.4	-30.07	-50.60	-14	-16.07	0
163.5	-26.59	-47.12	-14	-12.59	0
163.6	-24.26	-44.78	-14	-10.26	0
163.7	-22.64	-43.17	-14	-8.64	0
163.8	-21.54	-42.07	-14	-7.54	0
163.9	-20.86	-41.39	-14	-6.86	0
164.0	-20.54	-41.07	-14	-6.54	0
164.1	-20.57	-41.10	-14	-6.57	0

164.2	-20.95	-41.48	-14	-6.95	0
164.3	-21.72	-42.24	-14	-7.72	0
164.4	-22.95	-43.48	-14	-8.95	0
164.5	-24.81	-45.34	-14	-10.81	0
164.6	-27.63	-48.16	-14	-13.63	0
164.7	-32.38	-52.91	-14	-18.38	0
164.8	-44.21	-64.74	-14	-30.21	0
164.9	-37.68	-58.20	-14	-23.68	0
165.0	-30.33	-50.86	-14	-16.33	0
165.1	-26.69	-47.21	-14	-12.69	0
165.2	-24.45	-44.98	-14	-10.45	0
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165.5	-21.80	-42.32	-14	-7.80	0
165.6	-21.84	-42.37	-14	-7.84	0
165.7	-22.31	-42.84	-14	-8.31	0
165.8	-23.26	-43.79	-14	-9.26	0
165.9	-24.80	-45.33	-14	-10.80	0
166.0	-27.16	-47.69	-14	-13.16	0
166.1	-30.84	-51.37	-14	-16.84	0
166.2	-36.08	-56.61	-14	-22.08	0
166.3	-34.89	-55.42	-14	-20.89	0
166.4	-29.71	-50.23	-14	-15.71	0
166.5	-26.25	-46.78	-14	-12.25	0
166.6	-23.97	-44.50	-14	-9.97	0
166.7	-22.45	-42.97	-14	-8.45	0
166.8	-21.47	-42.00	-14	-7.47	0
166.9	-20.95	-41.48	-14	-6.95	0
167.0	-20.84	-41.36	-14	-6.84	0
167.1	-21.12	-41.65	-14	-7.12	0
167.2	-21.85	-42.38	-14	-7.85	0
167.3	-23.10	-43.63	-14	-9.10	0
167.4	-25.07	-45.60	-14	-11.07	0
167.5	-28.22	-48.75	-14	-14.22	0
167.6	-34.02	-54.55	-14	-20.02	0
167.7	-57.88	-78.41	-14	-43.88	0
167.8	-33.74	-54.27	-14	-19.74	0
167.9	-27.93	-48.46	-14	-13.93	0
168.0	-24.72	-45.25	-14	-10.72	0
168.1	-22.67	-43.20	-14	-8.67	0
168.2	-21.33	-41.85	-14	-7.33	0
168.3	-20.51	-41.04	-14	-6.51	0
168.4	-20.12	-40.65	-14	-6.12	0
168.5	-20.14	-40.67	-14	-6.14	0
168.6	-20.57	-41.10	-14	-6.57	0
168.7	-21.45	-41.97	-14	-7.45	0
168.8	-22.89	-43.41	-14	-8.89	0
168.9	-25.12	-45.65	-14	-11.12	0
169.0	-28.74	-49.27	-14	-14.74	0
169.1	-35.94	-56.47	-14	-21.94	0

169.2	-44.17	-64.70	-14	-30.17	0
169.3	-31.33	-51.86	-14	-17.33	0
169.4	-26.52	-47.05	-14	-12.52	0
169.5	-23.72	-44.25	-14	-9.72	0
169.6	-21.92	-42.45	-14	-7.92	0
169.7	-20.78	-41.31	-14	-6.78	0
169.8	-20.14	-40.67	-14	-6.14	0
169.9	-19.94	-40.47	-14	-5.94	0
170.0	-20.15	-40.68	-14	-6.15	0
170.1	-20.81	-41.34	-14	-6.81	0
170.2	-21.97	-42.50	-14	-7.97	0
170.3	-23.81	-44.34	-14	-9.81	0
170.4	-26.66	-47.19	-14	-12.66	0
170.5	-31.30	-51.82	-14	-17.30	0
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170.7	-31.61	-52.14	-14	-17.61	0
170.8	-26.73	-47.26	-14	-12.73	0
170.9	-23.70	-44.23	-14	-9.70	0
171.0	-21.72	-42.25	-14	-7.72	0
171.1	-20.43	-40.95	-14	-6.43	0
171.2	-19.65	-40.18	-14	-5.65	0
171.3	-19.33	-39.86	-14	-5.33	0
171.4	-19.42	-39.95	-14	-5.42	0
171.5	-19.95	-40.48	-14	-5.95	0
171.6	-20.99	-41.51	-14	-6.99	0
171.7	-22.67	-43.20	-14	-8.67	0
171.8	-25.35	-45.88	-14	-11.35	0
171.9	-29.96	-50.49	-14	-15.96	0
172.0	-40.44	-60.97	-14	-26.44	0
172.1	-33.97	-54.50	-14	-19.97	0
172.2	-27.08	-47.61	-14	-13.08	0
172.3	-23.43	-43.96	-14	-9.43	0
172.4	-21.11	-41.64	-14	-7.11	0
172.5	-19.58	-40.11	-14	-5.58	0
172.6	-18.61	-39.13	-14	-4.61	0
172.7	-18.08	-38.61	-14	-4.08	0
172.8	-17.96	-38.48	-14	-3.96	0
172.9	-18.22	-38.75	-14	-4.22	0
173.0	-18.91	-39.44	-14	-4.91	0
173.1	-20.09	-40.62	-14	-6.09	0
173.2	-21.92	-42.45	-14	-7.92	0
173.3	-24.69	-45.22	-14	-10.69	0
173.4	-29.08	-49.61	-14	-15.08	0
173.5	-34.53	-55.05	-14	-20.53	0
173.6	-30.45	-50.98	-14	-16.45	0
173.7	-25.58	-46.11	-14	-11.58	0
173.8	-22.55	-43.07	-14	-8.55	0
173.9	-20.58	-41.11	-14	-6.58	0
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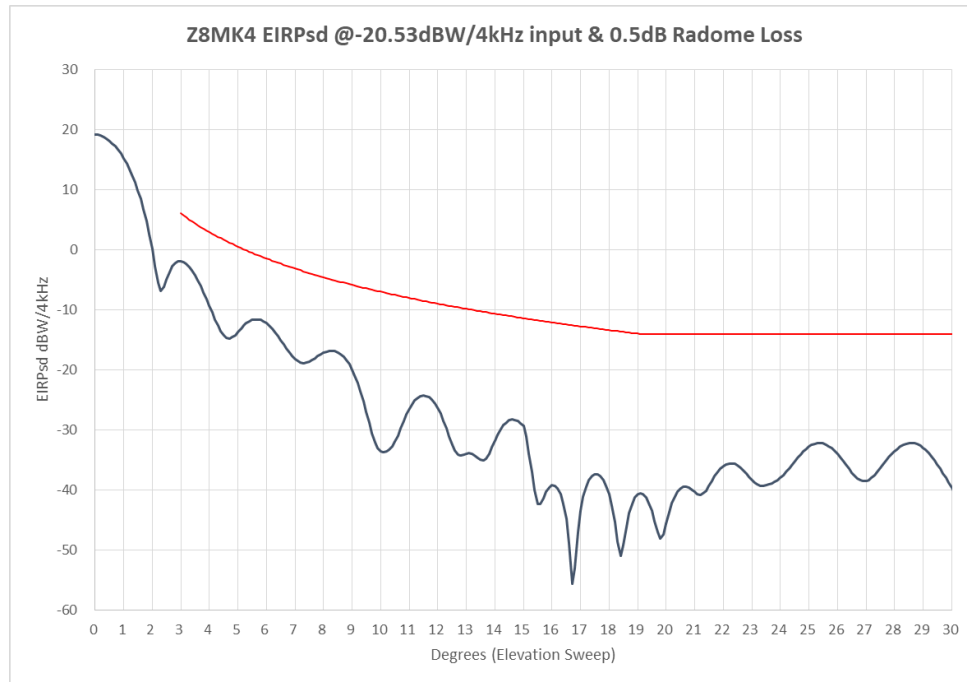
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174.7	-26.57	-47.10	-14	-12.57	0
174.8	-33.68	-54.21	-14	-19.68	0
174.9	-34.61	-55.14	-14	-20.61	0
175.0	-26.56	-47.09	-14	-12.56	0
175.1	-22.28	-42.81	-14	-8.28	0
175.2	-19.58	-40.11	-14	-5.58	0
175.3	-17.75	-38.28	-14	-3.75	0
175.4	-16.52	-37.05	-14	-2.52	0
175.5	-15.75	-36.28	-14	-1.75	0
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175.7	-15.37	-35.89	-14	-1.37	0
175.8	-15.74	-36.26	-14	-1.74	0
175.9	-16.52	-37.05	-14	-2.52	0
176.0	-17.80	-38.33	-14	-3.80	0
176.1	-19.76	-40.29	-14	-5.76	0
176.2	-22.78	-43.31	-14	-8.78	0
176.3	-27.83	-48.36	-14	-13.83	0
176.4	-34.80	-55.33	-14	-20.80	0
176.5	-28.13	-48.66	-14	-14.13	0
176.6	-23.00	-43.53	-14	-9.00	0
176.7	-19.98	-40.50	-14	-5.98	0
176.8	-18.05	-38.58	-14	-4.05	0
176.9	-16.84	-37.37	-14	-2.84	0
177.0	-16.17	-36.70	-14	-2.17	0
177.1	-15.99	-36.52	-14	-1.99	0
177.2	-16.28	-36.81	-14	-2.28	0
177.3	-17.10	-37.63	-14	-3.10	0
177.4	-18.58	-39.11	-14	-4.58	0
177.5	-21.07	-41.60	-14	-7.07	0
177.6	-25.53	-46.06	-14	-11.53	0
177.7	-36.68	-57.20	-14	-22.68	0
177.8	-29.36	-49.89	-14	-15.36	0
177.9	-22.08	-42.61	-14	-8.08	0
178.0	-18.17	-38.70	-14	-4.17	0
178.1	-15.61	-36.14	-14	-1.61	0
178.2	-13.83	-34.35	-14	0.17	0
178.3	-12.57	-33.10	-14	1.43	0
178.4	-11.73	-32.26	-14	2.27	0
178.5	-11.24	-31.77	-14	2.76	0
178.6	-11.09	-31.62	-14	2.91	0
178.7	-11.25	-31.78	-14	2.75	0
178.8	-11.77	-32.29	-14	2.23	0
178.9	-12.68	-33.20	-14	1.32	0
179.0	-14.08	-34.61	-14	-0.08	0
179.1	-16.18	-36.71	-14	-2.18	0

179.2	-19.41	-39.94	-14	-5.41	0
179.3	-24.91	-45.44	-14	-10.91	0
179.4	-30.68	-51.21	-14	-16.68	0
179.5	-23.10	-43.62	-14	-9.10	0
179.6	-18.26	-38.79	-14	-4.26	0
179.7	-15.29	-35.82	-14	-1.29	0
179.8	-13.31	-33.83	-14	0.69	0
179.9	-11.95	-32.48	-14	2.05	0
180.0	-11.51	-32.04	-14	2.49	0

1. Maximum co-polarized EIRP density

1) 14GHz

c) At off-axis angles from 0° to +30° range (Perpendicular)



Model Z8MK4
Frequency 14.00 [GHz]
GSO arc Perpendicular
EIRPsd Input -20.53 [dBW/4kHz]
Radome Loss 0.5 [dB]
39.71

Min input:
(@all freq.) -20.53

out of spec.

Elevation [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
0.0	39.71	19.19			
0.1	39.64	19.11			
0.2	39.49	18.97			
0.3	39.29	18.76			
0.4	39.01	18.48			
0.5	38.66	18.13			
0.6	38.24	17.72			
0.7	37.75	17.22			
0.8	37.18	16.65			
0.9	36.53	16.00			
1.0	35.78	15.26			
1.1	34.95	14.42			
1.2	34.01	13.48			
1.3	32.95	12.42			
1.4	31.77	11.24			
1.5	30.44	9.92			
1.6	28.95	8.42			
1.7	27.26	6.73			
1.8	25.33	4.81			
1.9	23.12	2.60			
2.0	20.59	0.06			
2.1	17.75	-2.77			
2.2	15.05	-5.48			
2.3	13.69	-6.84			
2.4	14.29	-6.24			
2.5	15.64	-4.89			
2.6	16.86	-3.67			
2.7	17.74	-2.79			
2.8	18.30	-2.23			
2.9	18.58	-1.95			
3.0	18.62	-1.91	6.071968632	12.55	0
3.1	18.47	-2.06	5.715957654	12.75	0
3.2	18.14	-2.39	5.371250542	12.77	0
3.3	17.65	-2.88	5.037151503	12.62	0
3.4	17.03	-3.50	4.713027074	12.32	0
3.5	16.28	-4.25	4.398298891	11.88	0
3.6	15.42	-5.11	4.092437481	11.33	0
3.7	14.47	-6.06	3.794956898	10.67	0
3.8	13.43	-7.09	3.505410085	9.93	0
3.9	12.34	-8.19	3.223384824	9.12	0
4.0	11.21	-9.32	2.948500217	8.26	0
4.1	10.06	-10.47	2.680403582	7.38	0

4.2	8.94	-11.59	2.41876774	6.52	0
4.3	7.89	-12.64	2.163288611	5.72	0
4.4	6.97	-13.56	1.913683088	5.06	0
4.5	6.27	-14.26	1.669687156	4.60	0
4.6	5.85	-14.68	1.431054208	4.42	0
4.7	5.75	-14.78	1.197553552	4.55	0
4.8	5.94	-14.59	0.968969066	4.97	0
4.9	6.34	-14.19	0.745097999	5.59	0
5.0	6.84	-13.69	0.525749892	6.31	0
5.1	7.37	-13.16	0.310745598	7.06	0
5.2	7.86	-12.67	0.099916409	7.76	0
5.3	8.28	-12.25	-0.10689674	8.39	0
5.4	8.61	-11.92	-0.309843996	8.92	0
5.5	8.83	-11.70	-0.509067237	9.33	0
5.6	8.93	-11.59	-0.704700675	9.64	0
5.7	8.93	-11.60	-0.896871392	9.83	0
5.8	8.81	-11.71	-1.085699839	9.90	0
5.9	8.59	-11.94	-1.271300291	9.86	0
6.0	8.27	-12.26	-1.45378126	9.72	0
6.1	7.85	-12.68	-1.633245875	9.48	0
6.2	7.34	-13.19	-1.809792237	9.15	0
6.3	6.75	-13.78	-1.983513736	8.74	0
6.4	6.11	-14.42	-2.15449935	8.26	0
6.5	5.42	-15.11	-2.322833916	7.74	0
6.6	4.72	-15.81	-2.488598389	7.21	0
6.7	4.02	-16.51	-2.651870068	6.67	0
6.8	3.37	-17.16	-2.812722818	6.18	0
6.9	2.79	-17.74	-2.971227268	5.76	0
7.0	2.31	-18.22	-3.127451	5.44	0
7.1	1.96	-18.57	-3.281458718	5.24	0
7.2	1.74	-18.79	-3.433312411	5.17	0
7.3	1.67	-18.86	-3.583071503	5.25	0
7.4	1.72	-18.80	-3.730792993	5.46	0
7.5	1.90	-18.63	-3.876531585	5.77	0
7.6	2.15	-18.38	-4.020339807	6.17	0
7.7	2.45	-18.07	-4.162268129	6.62	0
7.8	2.77	-17.75	-4.302365067	7.08	0
7.9	3.08	-17.45	-4.440677282	7.52	0
8.0	3.35	-17.18	-4.577249675	7.92	0
8.1	3.55	-16.98	-4.712125472	8.26	0
8.2	3.67	-16.85	-4.84534631	8.52	0
8.3	3.71	-16.82	-4.976952309	8.68	0
8.4	3.63	-16.89	-5.106982152	8.74	0
8.5	3.45	-17.08	-5.235473143	8.68	0
8.6	3.14	-17.38	-5.362461281	8.51	0
8.7	2.71	-17.82	-5.487981315	8.20	0
8.8	2.14	-18.39	-5.612066804	7.75	0
8.9	1.42	-19.11	-5.734750166	7.15	0
9.0	0.55	-19.98	-5.856062736	6.40	0
9.1	-0.49	-21.02	-5.976034808	5.49	0

9.2	-1.70	-22.23	-6.094695684	4.39	0
9.3	-3.10	-23.62	-6.212073714	3.12	0
9.4	-4.67	-25.20	-6.32819634	1.66	0
9.5	-6.41	-26.94	-6.443090132	0.03	0
9.6	-8.24	-28.77	-6.556780826	-1.69	0
9.7	-10.03	-30.56	-6.669293357	-3.36	0
9.8	-11.54	-32.07	-6.780651892	-4.76	0
9.9	-12.56	-33.08	-6.890879865	-5.67	0
10.0	-13.05	-33.57	-7	-6.05	0
10.1	-13.17	-33.69	-7.108034345	-6.06	0
10.2	-13.07	-33.60	-7.215004294	-5.86	0
10.3	-12.80	-33.32	-7.320930618	-5.47	0
10.4	-12.27	-32.80	-7.425833482	-4.85	0
10.5	-11.46	-31.99	-7.529732477	-3.93	0
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10.7	-9.21	-29.74	-7.734594442	-1.48	0
10.8	-8.03	-28.56	-7.835593887	-0.19	0
10.9	-6.93	-27.46	-7.935662449	1.01	0
11.0	-5.97	-26.50	-8.034817129	2.06	0
11.1	-5.18	-25.71	-8.13307447	2.96	0
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12.5	-11.91	-32.44	-9.422750325	-2.49	0
12.6	-12.96	-33.49	-9.509263628	-3.45	0
12.7	-13.56	-34.09	-9.595093024	-3.96	0
12.8	-13.69	-34.22	-9.680249241	-4.01	0
12.9	-13.57	-34.09	-9.764742757	-3.80	0
13.0	-13.39	-33.92	-9.848583808	-3.55	0
13.1	-13.33	-33.86	-9.931782391	-3.40	0
13.2	-13.44	-33.97	-10.01434828	-3.43	0
13.3	-13.73	-34.25	-10.09629102	-3.63	0
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13.6	-14.59	-35.11	-10.33847271	-4.25	0
13.7	-14.25	-34.77	-10.41801418	-3.83	0
13.8	-13.46	-33.99	-10.49697716	-2.96	0
13.9	-12.41	-32.93	-10.57537001	-1.83	0
14.0	-11.30	-31.82	-10.65320089	-0.64	0
14.1	-10.27	-30.80	-10.73047782	0.46	0

14.2	-9.40	-29.93	-10.80720861	1.41	0
14.3	-8.71	-29.23	-10.88340094	2.18	0
14.4	-8.20	-28.73	-10.9590623	2.76	0
14.5	-7.88	-28.41	-11.03420006	3.15	0
14.6	-7.74	-28.27	-11.10882139	3.37	0
14.7	-7.78	-28.31	-11.18293337	3.41	0
14.8	-7.98	-28.51	-11.25654288	3.28	0
14.9	-8.34	-28.87	-11.32965671	2.99	0
15.0	-8.84	-29.37	-11.40228148	2.56	0
15.1	-10.63	-31.15	-11.47442368	0.85	0
15.2	-13.42	-33.95	-11.5460897	-1.87	0
15.3	-16.46	-36.99	-11.61728577	-4.84	0
15.4	-19.48	-40.01	-11.68801802	-7.80	0
15.5	-21.79	-42.32	-11.75829245	-10.03	0
15.6	-21.75	-42.28	-11.82811496	-9.93	0
15.7	-20.83	-41.36	-11.89749131	-8.94	0
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15.9	-19.07	-39.60	-12.03492811	-7.03	0
16.0	-18.70	-39.23	-12.10299957	-6.60	0
16.1	-18.75	-39.28	-12.1706469	-6.58	0
16.2	-19.23	-39.76	-12.23787536	-6.99	0
16.3	-20.21	-40.74	-12.30469011	-7.90	0
16.4	-21.81	-42.34	-12.3710962	-9.44	0
16.5	-24.32	-44.85	-12.43709861	-11.89	0
16.6	-28.41	-48.94	-12.5027022	-15.91	0
16.7	-35.17	-55.69	-12.56791178	-22.60	0
16.8	-32.50	-53.03	-12.63273204	-19.87	0
16.9	-26.48	-47.00	-12.69716762	-13.78	0
17.0	-22.87	-43.40	-12.76122303	-10.11	0
17.1	-20.51	-41.04	-12.82490276	-7.69	0
17.2	-18.91	-39.44	-12.88821117	-6.02	0
17.3	-17.83	-38.36	-12.95115258	-4.88	0
17.4	-17.16	-37.68	-13.01373121	-4.14	0
17.5	-16.83	-37.36	-13.07595122	-3.76	0
17.6	-16.83	-37.36	-13.1378167	-3.69	0
17.7	-17.14	-37.67	-13.19933166	-3.94	0
17.8	-17.78	-38.30	-13.26050006	-4.52	0
17.9	-18.77	-39.30	-13.32132577	-5.45	0
18.0	-20.19	-40.72	-13.38181263	-6.81	0
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18.2	-24.80	-45.33	-13.5017847	-11.30	0
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18.4	-30.42	-50.95	-13.62044558	-16.80	0
18.5	-28.61	-49.14	-13.67929321	-14.93	0
18.6	-25.64	-46.17	-13.73782361	-11.90	0
18.7	-23.36	-43.89	-13.79604016	-9.56	0
18.8	-21.78	-42.31	-13.85394623	-7.92	0
18.9	-20.75	-41.28	-13.9115451	-6.84	0
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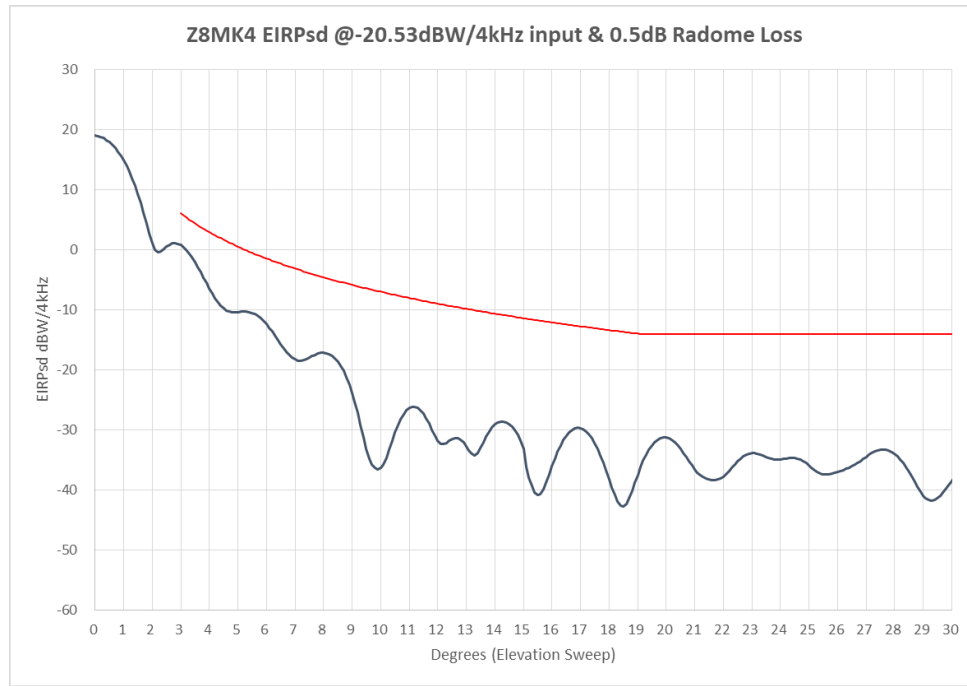
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21.1	-20.14	-40.67	-14	-6.14	0
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21.5	-18.81	-39.34	-14	-4.81	0
21.6	-17.98	-38.51	-14	-3.98	0
21.7	-17.18	-37.71	-14	-3.18	0
21.8	-16.47	-37.00	-14	-2.47	0
21.9	-15.90	-36.42	-14	-1.90	0
22.0	-15.46	-35.99	-14	-1.46	0
22.1	-15.18	-35.70	-14	-1.18	0
22.2	-15.04	-35.56	-14	-1.04	0
22.3	-15.04	-35.56	-14	-1.04	0
22.4	-15.17	-35.70	-14	-1.17	0
22.5	-15.43	-35.96	-14	-1.43	0
22.6	-15.80	-36.32	-14	-1.80	0
22.7	-16.25	-36.78	-14	-2.25	0
22.8	-16.77	-37.30	-14	-2.77	0
22.9	-17.31	-37.84	-14	-3.31	0
23.0	-17.83	-38.36	-14	-3.83	0
23.1	-18.26	-38.79	-14	-4.26	0
23.2	-18.57	-39.10	-14	-4.57	0
23.3	-18.74	-39.27	-14	-4.74	0
23.4	-18.77	-39.30	-14	-4.77	0
23.5	-18.69	-39.22	-14	-4.69	0
23.6	-18.54	-39.07	-14	-4.54	0
23.7	-18.33	-38.86	-14	-4.33	0
23.8	-18.08	-38.61	-14	-4.08	0
23.9	-17.78	-38.31	-14	-3.78	0
24.0	-17.43	-37.96	-14	-3.43	0
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24.2	-16.52	-37.04	-14	-2.52	0
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24.5	-14.74	-35.27	-14	-0.74	0
24.6	-14.13	-34.66	-14	-0.13	0
24.7	-13.56	-34.09	-14	0.44	0
24.8	-13.05	-33.58	-14	0.95	0
24.9	-12.60	-33.13	-14	1.40	0
25.0	-12.23	-32.76	-14	1.77	0
25.1	-11.95	-32.48	-14	2.05	0
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25.3	-11.66	-32.19	-14	2.34	0
25.4	-11.65	-32.18	-14	2.35	0
25.5	-11.73	-32.26	-14	2.27	0
25.6	-11.91	-32.44	-14	2.09	0
25.7	-12.18	-32.71	-14	1.82	0
25.8	-12.53	-33.06	-14	1.47	0
25.9	-12.96	-33.49	-14	1.04	0
26.0	-13.47	-33.99	-14	0.53	0
26.1	-14.03	-34.56	-14	-0.03	0
26.2	-14.65	-35.18	-14	-0.65	0
26.3	-15.30	-35.82	-14	-1.30	0
26.4	-15.94	-36.47	-14	-1.94	0
26.5	-16.56	-37.09	-14	-2.56	0
26.6	-17.11	-37.64	-14	-3.11	0
26.7	-17.56	-38.09	-14	-3.56	0
26.8	-17.87	-38.40	-14	-3.87	0
26.9	-18.01	-38.54	-14	-4.01	0
27.0	-17.99	-38.51	-14	-3.99	0
27.1	-17.79	-38.32	-14	-3.79	0
27.2	-17.45	-37.98	-14	-3.45	0
27.3	-16.99	-37.51	-14	-2.99	0
27.4	-16.44	-36.97	-14	-2.44	0
27.5	-15.84	-36.37	-14	-1.84	0
27.6	-15.22	-35.75	-14	-1.22	0
27.7	-14.61	-35.14	-14	-0.61	0
27.8	-14.03	-34.56	-14	-0.03	0
27.9	-13.49	-34.02	-14	0.51	0
28.0	-13.00	-33.53	-14	1.00	0
28.1	-12.59	-33.12	-14	1.41	0
28.2	-12.24	-32.77	-14	1.76	0
28.3	-11.98	-32.51	-14	2.02	0
28.4	-11.79	-32.32	-14	2.21	0
28.5	-11.69	-32.22	-14	2.31	0
28.6	-11.67	-32.20	-14	2.33	0
28.7	-11.73	-32.26	-14	2.27	0
28.8	-11.88	-32.41	-14	2.12	0
28.9	-12.12	-32.64	-14	1.88	0
29.0	-12.43	-32.96	-14	1.57	0
29.1	-12.83	-33.36	-14	1.17	0

29.2	-13.31	-33.84	-14	0.69	0
29.3	-13.86	-34.39	-14	0.14	0
29.4	-14.49	-35.02	-14	-0.49	0
29.5	-15.18	-35.70	-14	-1.18	0
29.6	-15.91	-36.44	-14	-1.91	0
29.7	-16.69	-37.22	-14	-2.69	0
29.8	-17.50	-38.02	-14	-3.50	0
29.9	-18.30	-38.83	-14	-4.30	0
30.0	-19.09	-39.62	-14	-5.09	0

3) 14.5GHz

c) At off-axis angles from 0° to +30° range (Perpendicular)



Model Z8MK4
Frequency 14.50 [GHz]
GSO arc Perpendicular
EIRPsd Input -19.45 [dBW/4kHz]
Radome Loss 0.5 [dB]
39.52

Min input:
(@all freq.) -20.53

out of spec.

Elevation [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
0.0	39.52	18.99			
0.1	39.44	18.91			
0.2	39.30	18.77			
0.3	39.08	18.55			
0.4	38.79	18.26			
0.5	38.43	17.90			
0.6	37.99	17.46			
0.7	37.47	16.95			
0.8	36.87	16.34			
0.9	36.18	15.65			
1.0	35.40	14.87			
1.1	34.52	13.99			
1.2	33.53	13.00			
1.3	32.42	11.90			
1.4	31.19	10.67			
1.5	29.83	9.30			
1.6	28.32	7.80			
1.7	26.68	6.16			
1.8	24.94	4.41			
1.9	23.19	2.66			
2.0	21.62	1.09			
2.1	20.53	0.00			
2.2	20.10	-0.43			
2.3	20.22	-0.31			
2.4	20.61	0.08			
2.5	21.03	0.51			
2.6	21.37	0.84			
2.7	21.57	1.04			
2.8	21.62	1.10			
2.9	21.53	1.00			
3.0	21.30	0.77	6.071968632	15.23	0
3.1	20.94	0.41	5.715957654	15.23	0
3.2	20.47	-0.06	5.371250542	15.10	0
3.3	19.89	-0.64	5.037151503	14.86	0
3.4	19.22	-1.31	4.713027074	14.51	0
3.5	18.47	-2.06	4.398298891	14.07	0
3.6	17.66	-2.87	4.092437481	13.56	0
3.7	16.79	-3.74	3.794956898	12.99	0
3.8	15.89	-4.64	3.505410085	12.39	0
3.9	14.99	-5.54	3.223384824	11.76	0
4.0	14.09	-6.43	2.948500217	11.15	0
4.1	13.24	-7.29	2.680403582	10.56	0

4.2	12.45	-8.07	2.41876774	10.04	0
4.3	11.76	-8.77	2.163288611	9.60	0
4.4	11.18	-9.35	1.913683088	9.26	0
4.5	10.73	-9.80	1.669687156	9.06	0
4.6	10.41	-10.12	1.431054208	8.98	0
4.7	10.21	-10.31	1.197553552	9.02	0
4.8	10.13	-10.40	0.968969066	9.16	0
4.9	10.12	-10.41	0.745097999	9.37	0
5.0	10.15	-10.38	0.525749892	9.62	0
5.1	10.19	-10.34	0.310745598	9.88	0
5.2	10.22	-10.31	0.099916409	10.12	0
5.3	10.21	-10.32	-0.10689674	10.31	0
5.4	10.14	-10.39	-0.309843996	10.45	0
5.5	10.01	-10.52	-0.509067237	10.51	0
5.6	9.80	-10.73	-0.704700675	10.50	0
5.7	9.50	-11.02	-0.896871392	10.40	0
5.8	9.13	-11.39	-1.085699839	10.22	0
5.9	8.68	-11.85	-1.271300291	9.95	0
6.0	8.16	-12.37	-1.45378126	9.61	0
6.1	7.56	-12.96	-1.633245875	9.20	0
6.2	6.91	-13.61	-1.809792237	8.72	0
6.3	6.22	-14.30	-1.983513736	8.21	0
6.4	5.51	-15.02	-2.15449935	7.66	0
6.5	4.80	-15.73	-2.322833916	7.12	0
6.6	4.11	-16.42	-2.488598389	6.60	0
6.7	3.48	-17.04	-2.651870068	6.14	0
6.8	2.95	-17.58	-2.812722818	5.76	0
6.9	2.52	-18.00	-2.971227268	5.49	0
7.0	2.23	-18.29	-3.127451	5.36	0
7.1	2.09	-18.44	-3.281458718	5.37	0
7.2	2.07	-18.46	-3.433312411	5.50	0
7.3	2.17	-18.36	-3.583071503	5.75	0
7.4	2.35	-18.18	-3.730792993	6.08	0
7.5	2.58	-17.95	-3.876531585	6.45	0
7.6	2.82	-17.71	-4.020339807	6.84	0
7.7	3.04	-17.49	-4.162268129	7.20	0
7.8	3.22	-17.31	-4.302365067	7.52	0
7.9	3.34	-17.19	-4.440677282	7.78	0
8.0	3.37	-17.16	-4.577249675	7.94	0
8.1	3.30	-17.22	-4.712125472	8.02	0
8.2	3.13	-17.40	-4.84534631	7.98	0
8.3	2.84	-17.69	-4.976952309	7.82	0
8.4	2.43	-18.10	-5.106982152	7.53	0
8.5	1.88	-18.65	-5.235473143	7.11	0
8.6	1.18	-19.35	-5.362461281	6.54	0
8.7	0.33	-20.20	-5.487981315	5.82	0
8.8	-0.69	-21.22	-5.612066804	4.92	0
8.9	-1.89	-22.41	-5.734750166	3.85	0
9.0	-3.27	-23.80	-5.856062736	2.58	0
9.1	-4.86	-25.39	-5.976034808	1.11	0

9.2	-6.66	-27.18	-6.094695684	-0.56	0
9.3	-8.62	-29.15	-6.212073714	-2.41	0
9.4	-10.68	-31.20	-6.32819634	-4.35	0
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9.9	-16.00	-36.52	-6.890879865	-9.11	0
10.0	-15.82	-36.35	-7	-8.82	0
10.1	-15.22	-35.75	-7.108034345	-8.11	0
10.2	-14.17	-34.69	-7.215004294	-6.95	0
10.3	-12.79	-33.32	-7.320930618	-5.47	0
10.4	-11.33	-31.85	-7.425833482	-3.90	0
10.5	-9.93	-30.46	-7.529732477	-2.40	0
10.6	-8.70	-29.23	-7.632646632	-1.07	0
10.7	-7.67	-28.20	-7.734594442	0.07	0
10.8	-6.85	-27.38	-7.835593887	0.98	0
10.9	-6.25	-26.77	-7.935662449	1.69	0
11.0	-5.84	-26.37	-8.034817129	2.19	0
11.1	-5.65	-26.17	-8.13307447	2.49	0
11.2	-5.64	-26.17	-8.230450567	2.59	0
11.3	-5.83	-26.36	-8.326961087	2.49	0
11.4	-6.22	-26.74	-8.422621283	2.21	0
11.5	-6.79	-27.31	-8.517446009	1.73	0
11.6	-7.54	-28.06	-8.611449731	1.08	0
11.7	-8.44	-28.97	-8.704646544	0.26	0
11.8	-9.45	-29.98	-8.797050183	-0.65	0
11.9	-10.45	-30.98	-8.888674035	-1.56	0
12.0	-11.29	-31.82	-8.979531151	-2.31	0
12.1	-11.79	-32.32	-9.069634258	-2.72	0
12.2	-11.88	-32.41	-9.158995767	-2.72	0
12.3	-11.66	-32.19	-9.247627786	-2.42	0
12.4	-11.33	-31.85	-9.335542129	-1.99	0
12.5	-11.03	-31.55	-9.422750325	-1.60	0
12.6	-10.87	-31.40	-9.509263628	-1.36	0
12.7	-10.90	-31.43	-9.595093024	-1.31	0
12.8	-11.15	-31.68	-9.680249241	-1.47	0
12.9	-11.61	-32.14	-9.764742757	-1.84	0
13.0	-12.23	-32.76	-9.848583808	-2.38	0
13.1	-12.92	-33.45	-9.931782391	-2.99	0
13.2	-13.49	-34.02	-10.01434828	-3.47	0
13.3	-13.68	-34.21	-10.09629102	-3.58	0
13.4	-13.33	-33.86	-10.17761996	-3.16	0
13.5	-12.54	-33.07	-10.25834421	-2.29	0
13.6	-11.55	-32.08	-10.33847271	-1.21	0
13.7	-10.56	-31.09	-10.41801418	-0.15	0
13.8	-9.70	-30.23	-10.49697716	0.80	0
13.9	-9.01	-29.54	-10.57537001	1.56	0
14.0	-8.51	-29.04	-10.65320089	2.14	0
14.1	-8.20	-28.73	-10.73047782	2.53	0

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14.3	-8.10	-28.63	-10.88340094	2.78	0
14.4	-8.28	-28.81	-10.9590623	2.67	0
14.5	-8.59	-29.12	-11.03420006	2.44	0
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14.7	-9.44	-29.97	-11.18293337	1.74	0
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15.0	-12.67	-33.20	-11.40228148	-1.27	0
15.1	-15.58	-36.11	-11.47442368	-4.11	0
15.2	-17.44	-37.96	-11.5460897	-5.89	0
15.3	-18.82	-39.35	-11.61728577	-7.21	0
15.4	-19.85	-40.38	-11.68801802	-8.17	0
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16.6	-9.89	-30.42	-12.5027022	2.61	0
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17.0	-9.19	-29.72	-12.76122303	3.57	0
17.1	-9.39	-29.92	-12.82490276	3.44	0
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17.5	-11.66	-32.18	-13.07595122	1.42	0
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17.7	-13.68	-34.21	-13.19933166	-0.48	0
17.8	-14.90	-35.43	-13.26050006	-1.64	0
17.9	-16.24	-36.76	-13.32132577	-2.91	0
18.0	-17.64	-38.17	-13.38181263	-4.26	0
18.1	-19.05	-39.58	-13.44196437	-5.61	0
18.2	-20.36	-40.89	-13.5017847	-6.86	0
18.3	-21.42	-41.95	-13.56127724	-7.86	0
18.4	-22.08	-42.61	-13.62044558	-8.46	0
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18.6	-21.77	-42.29	-13.73782361	-8.03	0
18.7	-20.85	-41.38	-13.79604016	-7.05	0
18.8	-19.64	-40.17	-13.85394623	-5.78	0
18.9	-18.30	-38.83	-13.9115451	-4.39	0
19.0	-16.96	-37.49	-13.96884002	-3.00	0
19.1	-15.71	-36.24	-14.02583418	-1.68	0

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19.5	-12.06	-32.58	-14	1.94	0
19.6	-11.51	-32.04	-14	2.49	0
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19.8	-10.86	-31.38	-14	3.14	0
19.9	-10.73	-31.26	-14	3.27	0
20.0	-10.74	-31.27	-14	3.26	0
20.1	-10.88	-31.41	-14	3.12	0
20.2	-11.14	-31.67	-14	2.86	0
20.3	-11.53	-32.05	-14	2.47	0
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20.5	-12.60	-33.13	-14	1.40	0
20.6	-13.27	-33.79	-14	0.73	0
20.7	-13.98	-34.51	-14	0.02	0
20.8	-14.71	-35.24	-14	-0.71	0
20.9	-15.41	-35.94	-14	-1.41	0
21.0	-16.05	-36.58	-14	-2.05	0
21.1	-16.58	-37.11	-14	-2.58	0
21.2	-16.99	-37.52	-14	-2.99	0
21.3	-17.30	-37.83	-14	-3.30	0
21.4	-17.52	-38.05	-14	-3.52	0
21.5	-17.68	-38.21	-14	-3.68	0
21.6	-17.78	-38.31	-14	-3.78	0
21.7	-17.82	-38.34	-14	-3.82	0
21.8	-17.76	-38.29	-14	-3.76	0
21.9	-17.58	-38.11	-14	-3.58	0
22.0	-17.27	-37.80	-14	-3.27	0
22.1	-16.84	-37.37	-14	-2.84	0
22.2	-16.32	-36.84	-14	-2.32	0
22.3	-15.75	-36.28	-14	-1.75	0
22.4	-15.19	-35.72	-14	-1.19	0
22.5	-14.67	-35.20	-14	-0.67	0
22.6	-14.22	-34.74	-14	-0.22	0
22.7	-13.85	-34.38	-14	0.15	0
22.8	-13.58	-34.10	-14	0.42	0
22.9	-13.40	-33.93	-14	0.60	0
23.0	-13.33	-33.85	-14	0.67	0
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23.2	-13.43	-33.96	-14	0.57	0
23.3	-13.58	-34.11	-14	0.42	0
23.4	-13.77	-34.30	-14	0.23	0
23.5	-13.98	-34.50	-14	0.02	0
23.6	-14.17	-34.70	-14	-0.17	0
23.7	-14.32	-34.84	-14	-0.32	0
23.8	-14.41	-34.93	-14	-0.41	0
23.9	-14.43	-34.96	-14	-0.43	0
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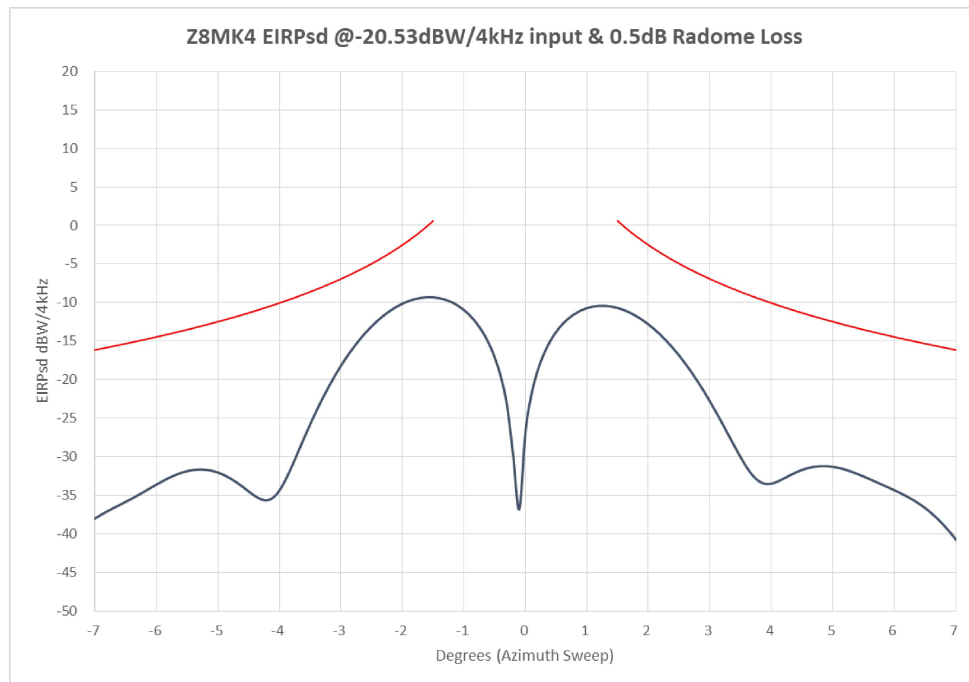
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25.0	-15.38	-35.91	-14	-1.38	0
25.1	-15.76	-36.29	-14	-1.76	0
25.2	-16.14	-36.67	-14	-2.14	0
25.3	-16.47	-37.00	-14	-2.47	0
25.4	-16.73	-37.26	-14	-2.73	0
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25.7	-16.91	-37.44	-14	-2.91	0
25.8	-16.81	-37.33	-14	-2.81	0
25.9	-16.66	-37.19	-14	-2.66	0
26.0	-16.49	-37.02	-14	-2.49	0
26.1	-16.32	-36.85	-14	-2.32	0
26.2	-16.15	-36.67	-14	-2.15	0
26.3	-15.96	-36.49	-14	-1.96	0
26.4	-15.76	-36.29	-14	-1.76	0
26.5	-15.54	-36.07	-14	-1.54	0
26.6	-15.28	-35.81	-14	-1.28	0
26.7	-14.98	-35.51	-14	-0.98	0
26.8	-14.66	-35.19	-14	-0.66	0
26.9	-14.31	-34.84	-14	-0.31	0
27.0	-13.96	-34.49	-14	0.04	0
27.1	-13.63	-34.16	-14	0.37	0
27.2	-13.33	-33.86	-14	0.67	0
27.3	-13.08	-33.61	-14	0.92	0
27.4	-12.89	-33.42	-14	1.11	0
27.5	-12.77	-33.30	-14	1.23	0
27.6	-12.73	-33.26	-14	1.27	0
27.7	-12.77	-33.30	-14	1.23	0
27.8	-12.91	-33.44	-14	1.09	0
27.9	-13.13	-33.66	-14	0.87	0
28.0	-13.45	-33.98	-14	0.55	0
28.1	-13.86	-34.39	-14	0.14	0
28.2	-14.37	-34.90	-14	-0.37	0
28.3	-14.97	-35.50	-14	-0.97	0
28.4	-15.65	-36.18	-14	-1.65	0
28.5	-16.41	-36.94	-14	-2.41	0
28.6	-17.22	-37.75	-14	-3.22	0
28.7	-18.07	-38.60	-14	-4.07	0
28.8	-18.92	-39.44	-14	-4.92	0
28.9	-19.71	-40.24	-14	-5.71	0
29.0	-20.39	-40.91	-14	-6.39	0
29.1	-20.90	-41.42	-14	-6.90	0

29.2	-21.20	-41.72	-14	-7.20	0
29.3	-21.27	-41.80	-14	-7.27	0
29.4	-21.14	-41.67	-14	-7.14	0
29.5	-20.83	-41.36	-14	-6.83	0
29.6	-20.39	-40.92	-14	-6.39	0
29.7	-19.85	-40.37	-14	-5.85	0
29.8	-19.24	-39.77	-14	-5.24	0
29.9	-18.61	-39.14	-14	-4.61	0
30.0	-17.97	-38.50	-14	-3.97	0

2. Maximum cross-polarized EIRP density

4) 14GHz

a) At off-axis angles from $\pm 7^\circ$ range (Tangent)



Model Z8MK4
Frequency 14.00 [GHz]
GSO arc Tangent
EIRPsd Input -20.53 [dBW/4kHz]
Radome Loss 0.5 [dB]

Min input:
 (@all freq.) -20.53

out of spec.

Azimuth [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-31.64	-52.17	-24.40228148	-7.24	0
-14.9	-31.54	-52.07	-24.32965671	-7.21	0
-14.8	-31.42	-51.94	-24.25654288	-7.16	0
-14.7	-31.26	-51.78	-24.18293337	-7.07	0
-14.6	-31.06	-51.59	-24.10882139	-6.96	0
-14.5	-30.84	-51.36	-24.03420006	-6.80	0
-14.4	-30.56	-51.09	-23.9590623	-6.60	0
-14.3	-30.24	-50.77	-23.88340094	-6.36	0
-14.2	-29.86	-50.39	-23.80720861	-6.06	0
-14.1	-29.44	-49.97	-23.73047782	-5.71	0
-14.0	-28.97	-49.50	-23.65320089	-5.32	0
-13.9	-28.49	-49.02	-23.57537001	-4.92	0
-13.8	-28.01	-48.54	-23.49697716	-4.51	0
-13.7	-27.56	-48.09	-23.41801418	-4.14	0
-13.6	-27.15	-47.68	-23.33847271	-3.82	0
-13.5	-26.82	-47.35	-23.25834421	-3.56	0
-13.4	-26.58	-47.11	-23.17761996	-3.40	0
-13.3	-26.44	-46.97	-23.09629102	-3.34	0
-13.2	-26.42	-46.94	-23.01434828	-3.40	0
-13.1	-26.52	-47.05	-22.93178239	-3.59	0
-13.0	-26.78	-47.31	-22.84858381	-3.93	0
-12.9	-27.19	-47.72	-22.76474276	-4.43	0
-12.8	-27.78	-48.31	-22.68024924	-5.10	0
-12.7	-28.58	-49.10	-22.59509302	-5.98	0
-12.6	-29.60	-50.12	-22.50926363	-7.09	0
-12.5	-30.89	-51.41	-22.42275033	-8.46	0
-12.4	-32.50	-53.03	-22.33554213	-10.16	0
-12.3	-34.51	-55.04	-22.24762779	-12.26	0
-12.2	-37.02	-57.55	-22.15899577	-14.86	0
-12.1	-40.07	-60.60	-22.06963426	-18.00	0
-12.0	-43.17	-63.70	-21.97953115	-21.19	0
-11.9	-44.31	-64.84	-21.88867403	-22.42	0
-11.8	-42.96	-63.48	-21.79705018	-21.16	0
-11.7	-41.30	-61.83	-21.70464654	-19.60	0
-11.6	-40.25	-60.78	-21.61144973	-18.64	0
-11.5	-39.89	-60.42	-21.51744601	-18.37	0
-11.4	-40.21	-60.74	-21.42262128	-18.79	0
-11.3	-41.28	-61.81	-21.32696109	-19.95	0
-11.2	-43.28	-63.81	-21.23045057	-22.05	0
-11.1	-46.53	-67.06	-21.13307447	-25.40	0
-11.0	-49.95	-70.47	-21.03481713	-28.91	0
-10.9	-47.28	-67.80	-20.93566245	-26.34	0

-10.8	-42.83	-63.36	-20.83559389	-21.99	0
-10.7	-39.60	-60.13	-20.73459444	-18.87	0
-10.6	-37.33	-57.86	-20.63264663	-16.70	0
-10.5	-35.71	-56.24	-20.52973248	-15.18	0
-10.4	-34.57	-55.10	-20.42583348	-14.15	0
-10.3	-33.83	-54.35	-20.32093062	-13.50	0
-10.2	-33.40	-53.93	-20.21500429	-13.19	0
-10.1	-33.24	-53.77	-20.10803434	-13.14	0
-10.0	-33.30	-53.83	-20	-13.30	0
-9.9	-33.48	-54.01	-19.89087986	-13.59	0
-9.8	-33.66	-54.19	-19.78065189	-13.88	0
-9.7	-33.68	-54.21	-19.66929336	-14.01	0
-9.6	-33.37	-53.90	-19.55678083	-13.81	0
-9.5	-32.71	-53.24	-19.44309013	-13.26	0
-9.4	-31.79	-52.32	-19.32819634	-12.47	0
-9.3	-30.79	-51.32	-19.21207371	-11.58	0
-9.2	-29.83	-50.36	-19.09469568	-10.73	0
-9.1	-28.99	-49.52	-18.97603481	-10.01	0
-9.0	-28.31	-48.84	-18.85606274	-9.46	0
-8.9	-27.82	-48.34	-18.73475017	-9.08	0
-8.8	-27.50	-48.03	-18.6120668	-8.89	0
-8.7	-27.35	-47.88	-18.48798132	-8.87	0
-8.6	-27.37	-47.90	-18.36246128	-9.01	0
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-7.2	-18.65	-39.18	-16.43331241	-2.22	0
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-6.8	-16.54	-37.06	-15.81272282	-0.72	0
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-0.1	-16.29	-36.81			
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0.1	-1.34	-21.87			
0.2	1.72	-18.81			
0.3	3.87	-16.66			
0.4	5.48	-15.05			
0.5	6.73	-13.80			
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0.7	8.46	-12.06			
0.8	9.06	-11.47			
0.9	9.50	-11.03			
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1.1	10.01	-10.51			
1.2	10.11	-10.42			
1.3	10.11	-10.42			
1.4	10.01	-10.52			
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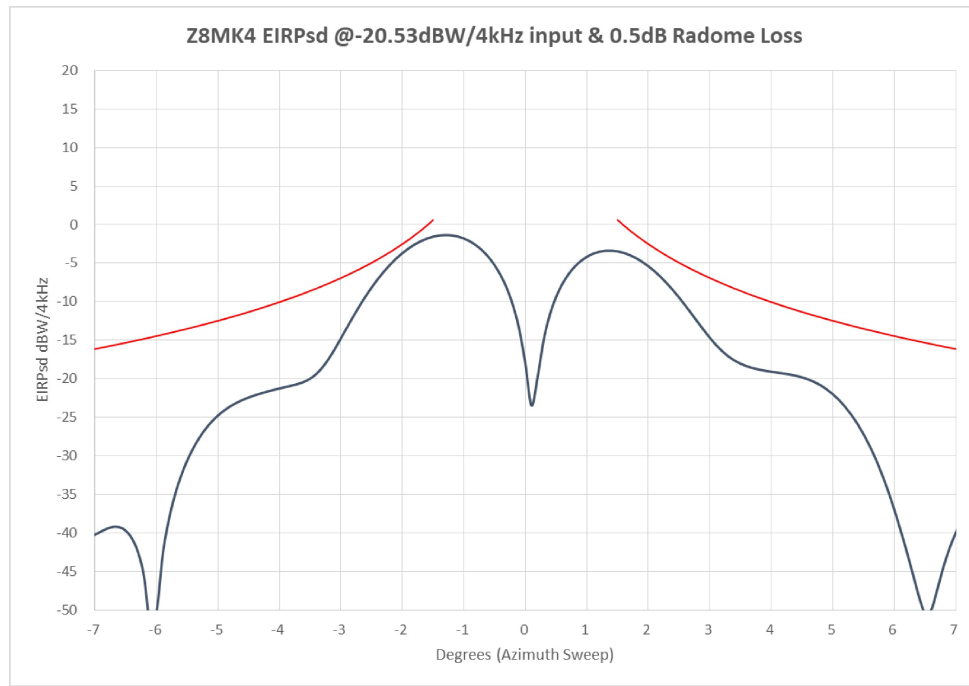
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7.2	-22.23	-42.76	-16.43331241	-5.80	0
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11.4	-30.49	-51.01	-21.42262128	-9.06	0
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11.6	-36.33	-56.86	-21.61144973	-14.72	0
11.7	-41.21	-61.74	-21.70464654	-19.51	0
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11.9	-53.54	-74.07	-21.88867403	-31.65	0
12.0	-44.40	-64.93	-21.97953115	-22.43	0
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12.2	-39.48	-60.01	-22.15899577	-17.32	0
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12.5	-40.50	-61.02	-22.42275033	-18.07	0
12.6	-42.75	-63.28	-22.50926363	-20.24	0
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12.8	-50.44	-70.97	-22.68024924	-27.76	0
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13.0	-41.37	-61.89	-22.84858381	-18.52	0
13.1	-38.14	-58.67	-22.93178239	-15.21	0
13.2	-35.88	-56.41	-23.01434828	-12.87	0
13.3	-34.26	-54.79	-23.09629102	-11.17	0
13.4	-33.11	-53.64	-23.17761996	-9.94	0
13.5	-32.34	-52.87	-23.25834421	-9.08	0
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13.7	-31.69	-52.22	-23.41801418	-8.27	0
13.8	-31.75	-52.28	-23.49697716	-8.26	0
13.9	-32.03	-52.56	-23.57537001	-8.46	0
14.0	-32.47	-53.00	-23.65320089	-8.82	0
14.1	-33.00	-53.53	-23.73047782	-9.27	0

14.2	-33.47	-54.00	-23.80720861	-9.66	0
14.3	-33.70	-54.22	-23.88340094	-9.81	0
14.4	-33.53	-54.05	-23.9590623	-9.57	0
14.5	-32.96	-53.49	-24.03420006	-8.93	0
14.6	-32.16	-52.69	-24.10882139	-8.05	0
14.7	-31.29	-51.82	-24.18293337	-7.10	0
14.8	-30.48	-51.01	-24.25654288	-6.23	0
14.9	-29.81	-50.34	-24.32965671	-5.48	0
15.0	-17.47	-38.00	-24.40228148	6.93	0

6) 14.5GHz

a) At off-axis angles from $\pm 7^\circ$ range (Tangent)



Model Z8MK4
Frequency 14.50 [GHz]
GSO arc Tangent
EIRPsd Input -19.45 [dBW/4kHz]
Radome Loss 0.5 [dB]

Min input:
 (@all freq.) -20.53

out of spec.

Azimuth [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-28.09	-48.62	-24.40228148	-3.69	0
-14.9	-28.38	-48.91	-24.32965671	-4.05	0
-14.8	-28.81	-49.34	-24.25654288	-4.56	0
-14.7	-29.39	-49.92	-24.18293337	-5.21	0
-14.6	-30.11	-50.64	-24.10882139	-6.00	0
-14.5	-30.95	-51.47	-24.03420006	-6.91	0
-14.4	-31.87	-52.40	-23.9590623	-7.91	0
-14.3	-32.82	-53.35	-23.88340094	-8.94	0
-14.2	-33.71	-54.24	-23.80720861	-9.91	0
-14.1	-34.45	-54.98	-23.73047782	-10.72	0
-14.0	-34.98	-55.51	-23.65320089	-11.33	0
-13.9	-35.31	-55.84	-23.57537001	-11.73	0
-13.8	-35.52	-56.05	-23.49697716	-12.02	0
-13.7	-35.69	-56.21	-23.41801418	-12.27	0
-13.6	-35.84	-56.36	-23.33847271	-12.50	0
-13.5	-35.90	-56.42	-23.25834421	-12.64	0
-13.4	-35.69	-56.22	-23.17761996	-12.51	0
-13.3	-35.04	-55.57	-23.09629102	-11.94	0
-13.2	-33.92	-54.44	-23.01434828	-10.90	0
-13.1	-32.49	-53.02	-22.93178239	-9.56	0
-13.0	-30.99	-51.52	-22.84858381	-8.14	0
-12.9	-29.56	-50.09	-22.76474276	-6.80	0
-12.8	-28.29	-48.82	-22.68024924	-5.61	0
-12.7	-27.21	-47.74	-22.59509302	-4.62	0
-12.6	-26.33	-46.86	-22.50926363	-3.83	0
-12.5	-25.66	-46.19	-22.42275033	-3.24	0
-12.4	-25.20	-45.73	-22.33554213	-2.86	0
-12.3	-24.94	-45.47	-22.24762779	-2.70	0
-12.2	-24.90	-45.43	-22.15899577	-2.74	0
-12.1	-25.08	-45.61	-22.06963426	-3.01	0
-12.0	-25.51	-46.04	-21.97953115	-3.53	0
-11.9	-26.21	-46.73	-21.88867403	-4.32	0
-11.8	-27.22	-47.75	-21.79705018	-5.42	0
-11.7	-28.63	-49.16	-21.70464654	-6.93	0
-11.6	-30.58	-51.10	-21.61144973	-8.96	0
-11.5	-33.31	-53.84	-21.51744601	-11.80	0
-11.4	-37.50	-58.03	-21.42262128	-16.08	0
-11.3	-45.74	-66.27	-21.32696109	-24.42	0
-11.2	-51.79	-72.32	-21.23045057	-30.56	0
-11.1	-40.43	-60.95	-21.13307447	-19.29	0
-11.0	-36.24	-56.77	-21.03481713	-15.21	0
-10.9	-33.97	-54.50	-20.93566245	-13.03	0

-10.8	-32.67	-53.20	-20.83559389	-11.84	0
-10.7	-32.00	-52.53	-20.73459444	-11.27	0
-10.6	-31.75	-52.28	-20.63264663	-11.12	0
-10.5	-31.71	-52.24	-20.52973248	-11.18	0
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-10.3	-31.11	-51.63	-20.32093062	-10.78	0
-10.2	-30.08	-50.61	-20.21500429	-9.86	0
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-10.0	-27.19	-47.72	-20	-7.19	0
-9.9	-25.80	-46.33	-19.89087986	-5.91	0
-9.8	-24.62	-45.15	-19.78065189	-4.84	0
-9.7	-23.68	-44.21	-19.66929336	-4.01	0
-9.6	-22.99	-43.52	-19.55678083	-3.44	0
-9.5	-22.57	-43.09	-19.44309013	-3.12	0
-9.4	-22.41	-42.94	-19.32819634	-3.08	0
-9.3	-22.54	-43.07	-19.21207371	-3.33	0
-9.2	-22.98	-43.51	-19.09469568	-3.88	0
-9.1	-23.77	-44.30	-18.97603481	-4.79	0
-9.0	-24.97	-45.50	-18.85606274	-6.11	0
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-8.8	-28.65	-49.18	-18.6120668	-10.03	0
-8.7	-30.24	-50.77	-18.48798132	-11.75	0
-8.6	-29.75	-50.28	-18.36246128	-11.39	0
-8.5	-27.50	-48.03	-18.23547314	-9.26	0
-8.4	-25.11	-45.64	-18.10698215	-7.00	0
-8.3	-23.14	-43.66	-17.97695231	-5.16	0
-8.2	-21.61	-42.13	-17.84534631	-3.76	0
-8.1	-20.47	-40.99	-17.71212547	-2.75	0
-8.0	-19.66	-40.18	-17.57724967	-2.08	0
-7.9	-19.14	-39.66	-17.44067728	-1.70	0
-7.8	-18.87	-39.40	-17.30236507	-1.57	0
-7.7	-18.83	-39.36	-17.16226813	-1.67	0
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-6.8	-18.89	-39.42	-15.81272282	-3.08	0
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1.1	16.75	-3.78			
1.2	17.00	-3.53			
1.3	17.13	-3.40			
1.4	17.15	-3.38			
1.5	17.06	-3.47	0.597718524	16.46	0
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5.3	-4.12	-24.65	-13.10689674	8.99	0
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5.5	-6.65	-27.18	-13.50906724	6.86	0
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5.7	-9.92	-30.44	-13.89687139	3.98	0
5.8	-11.86	-32.39	-14.08569984	2.23	0
5.9	-14.03	-34.56	-14.27130029	0.24	0
6.0	-16.42	-36.95	-14.45378126	-1.97	0
6.1	-19.02	-39.55	-14.63324588	-4.39	0
6.2	-21.80	-42.33	-14.80979224	-6.99	0
6.3	-24.71	-45.24	-14.98351374	-9.73	0
6.4	-27.64	-48.17	-15.15449935	-12.49	0
6.5	-29.87	-50.39	-15.32283392	-14.54	0
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6.8	-23.91	-44.44	-15.81272282	-8.10	0
6.9	-21.45	-41.97	-15.97122727	-5.48	0
7.0	-19.46	-39.99	-16.127451	-3.33	0
7.1	-17.89	-38.41	-16.28145872	-1.61	0
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7.4	-15.13	-35.66	-16.73079299	1.60	0
7.5	-14.76	-35.29	-16.87653158	2.12	0
7.6	-14.63	-35.16	-17.02033981	2.39	0
7.7	-14.74	-35.27	-17.16226813	2.42	0
7.8	-15.08	-35.61	-17.30236507	2.22	0
7.9	-15.68	-36.20	-17.44067728	1.77	0
8.0	-16.52	-37.05	-17.57724967	1.05	0
8.1	-17.65	-38.17	-17.71212547	0.07	0
8.2	-19.05	-39.58	-17.84534631	-1.21	0
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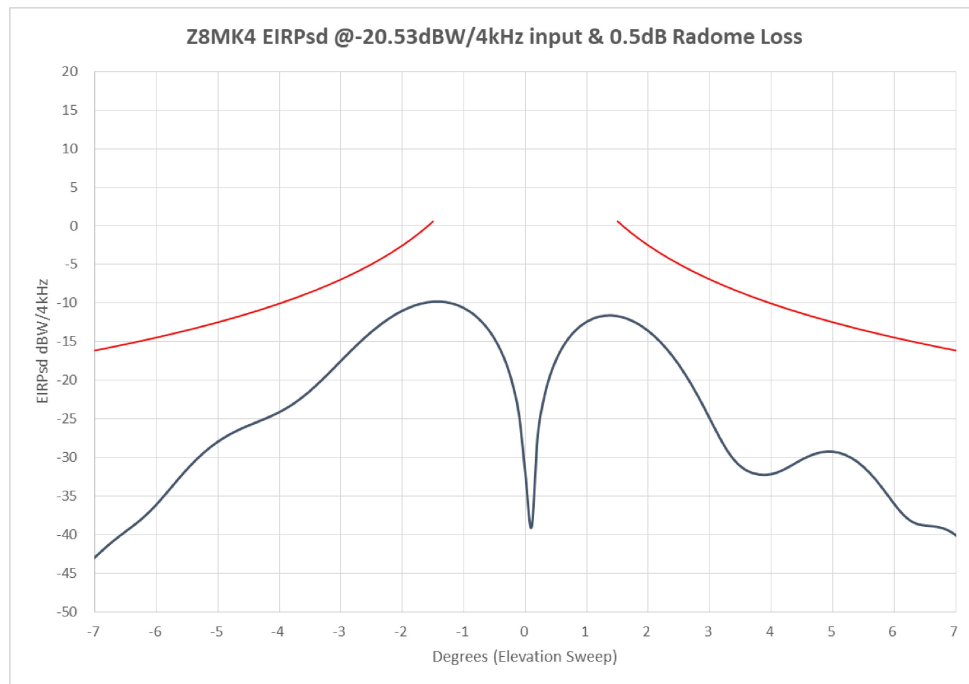
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11.0	-33.89	-54.42	-21.03481713	-12.85	0
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11.3	-37.09	-57.62	-21.32696109	-15.77	0
11.4	-32.57	-53.09	-21.42262128	-11.14	0
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11.6	-27.32	-47.85	-21.61144973	-5.71	0
11.7	-25.77	-46.30	-21.70464654	-4.07	0
11.8	-24.68	-45.21	-21.79705018	-2.89	0
11.9	-23.96	-44.49	-21.88867403	-2.07	0
12.0	-23.55	-44.08	-21.97953115	-1.57	0
12.1	-23.43	-43.96	-22.06963426	-1.36	0
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12.4	-24.76	-45.29	-22.33554213	-2.43	0
12.5	-25.82	-46.35	-22.42275033	-3.40	0
12.6	-27.26	-47.79	-22.50926363	-4.75	0
12.7	-29.16	-49.69	-22.59509302	-6.56	0
12.8	-31.58	-52.10	-22.68024924	-8.90	0
12.9	-34.34	-54.87	-22.76474276	-11.58	0
13.0	-36.20	-56.73	-22.84858381	-13.35	0
13.1	-35.37	-55.90	-22.93178239	-12.44	0
13.2	-33.26	-53.79	-23.01434828	-10.25	0
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13.4	-30.14	-50.67	-23.17761996	-6.97	0
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13.6	-29.06	-49.59	-23.33847271	-5.72	0
13.7	-29.17	-49.70	-23.41801418	-5.75	0
13.8	-29.71	-50.24	-23.49697716	-6.21	0
13.9	-30.72	-51.24	-23.57537001	-7.14	0
14.0	-32.26	-52.79	-23.65320089	-8.60	0
14.1	-34.43	-54.96	-23.73047782	-10.70	0

14.2	-37.11	-57.64	-23.80720861	-13.30	0
14.3	-38.78	-59.31	-23.88340094	-14.89	0
14.4	-37.19	-57.72	-23.9590623	-13.23	0
14.5	-34.37	-54.90	-24.03420006	-10.33	0
14.6	-32.00	-52.52	-24.10882139	-7.89	0
14.7	-30.23	-50.76	-24.18293337	-6.05	0
14.8	-28.96	-49.49	-24.25654288	-4.71	0
14.9	-28.10	-48.63	-24.32965671	-3.77	0
15.0	-27.59	-48.11	-24.40228148	-3.18	0

2. Maximum cross-polarized EIRP density

4) 14GHz

b) At off-axis angles from $\pm 7^\circ$ range (Perpendicular)



Model Z8MK4
Frequency 14.00 [GHz]
GSO arc Perpendicular
EIRPsd Input -20.53 [dBW/4kHz]
Radome Loss 0.5 [dB]

Min input:
 (@all freq.) -20.53

out of spec.

Elevation [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-42.28	-62.80	-24.40228148	-17.87	0
-14.9	-44.09	-64.62	-24.32965671	-19.76	0
-14.8	-46.10	-66.63	-24.25654288	-21.84	0
-14.7	-47.35	-67.88	-24.18293337	-23.17	0
-14.6	-46.73	-67.25	-24.10882139	-22.62	0
-14.5	-44.96	-65.49	-24.03420006	-20.93	0
-14.4	-43.22	-63.75	-23.9590623	-19.27	0
-14.3	-41.90	-62.43	-23.88340094	-18.02	0
-14.2	-41.04	-61.56	-23.80720861	-17.23	0
-14.1	-40.60	-61.13	-23.73047782	-16.87	0
-14.0	-40.58	-61.11	-23.65320089	-16.93	0
-13.9	-40.96	-61.49	-23.57537001	-17.39	0
-13.8	-41.70	-62.23	-23.49697716	-18.20	0
-13.7	-42.65	-63.17	-23.41801418	-19.23	0
-13.6	-43.33	-63.85	-23.33847271	-19.99	0
-13.5	-42.92	-63.45	-23.25834421	-19.66	0
-13.4	-41.24	-61.77	-23.17761996	-18.07	0
-13.3	-39.04	-59.57	-23.09629102	-15.94	0
-13.2	-36.89	-57.42	-23.01434828	-13.87	0
-13.1	-34.99	-55.52	-22.93178239	-12.06	0
-13.0	-33.36	-53.89	-22.84858381	-10.51	0
-12.9	-31.97	-52.50	-22.76474276	-9.21	0
-12.8	-30.80	-51.32	-22.68024924	-8.12	0
-12.7	-29.80	-50.33	-22.59509302	-7.21	0
-12.6	-28.97	-49.50	-22.50926363	-6.46	0
-12.5	-28.28	-48.81	-22.42275033	-5.86	0
-12.4	-27.72	-48.24	-22.33554213	-5.38	0
-12.3	-27.27	-47.79	-22.24762779	-5.02	0
-12.2	-26.92	-47.45	-22.15899577	-4.76	0
-12.1	-26.68	-47.20	-22.06963426	-4.61	0
-12.0	-26.52	-47.05	-21.97953115	-4.54	0
-11.9	-26.46	-46.99	-21.88867403	-4.58	0
-11.8	-26.49	-47.02	-21.79705018	-4.70	0
-11.7	-26.61	-47.14	-21.70464654	-4.90	0
-11.6	-26.81	-47.34	-21.61144973	-5.20	0
-11.5	-27.10	-47.63	-21.51744601	-5.58	0
-11.4	-27.48	-48.01	-21.42262128	-6.06	0
-11.3	-27.95	-48.48	-21.32696109	-6.62	0
-11.2	-28.51	-49.04	-21.23045057	-7.28	0
-11.1	-29.17	-49.70	-21.13307447	-8.04	0
-11.0	-29.94	-50.46	-21.03481713	-8.90	0
-10.9	-30.81	-51.33	-20.93566245	-9.87	0

-10.8	-31.79	-52.32	-20.83559389	-10.95	0
-10.7	-32.89	-53.41	-20.73459444	-12.15	0
-10.6	-34.08	-54.61	-20.63264663	-13.45	0
-10.5	-35.32	-55.84	-20.52973248	-14.79	0
-10.4	-36.45	-56.98	-20.42583348	-16.02	0
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0.5	3.19	-17.34			
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0.7	5.94	-14.58			
0.8	6.87	-13.65			
0.9	7.59	-12.94			
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1.1	8.52	-12.01			
1.2	8.77	-11.75			
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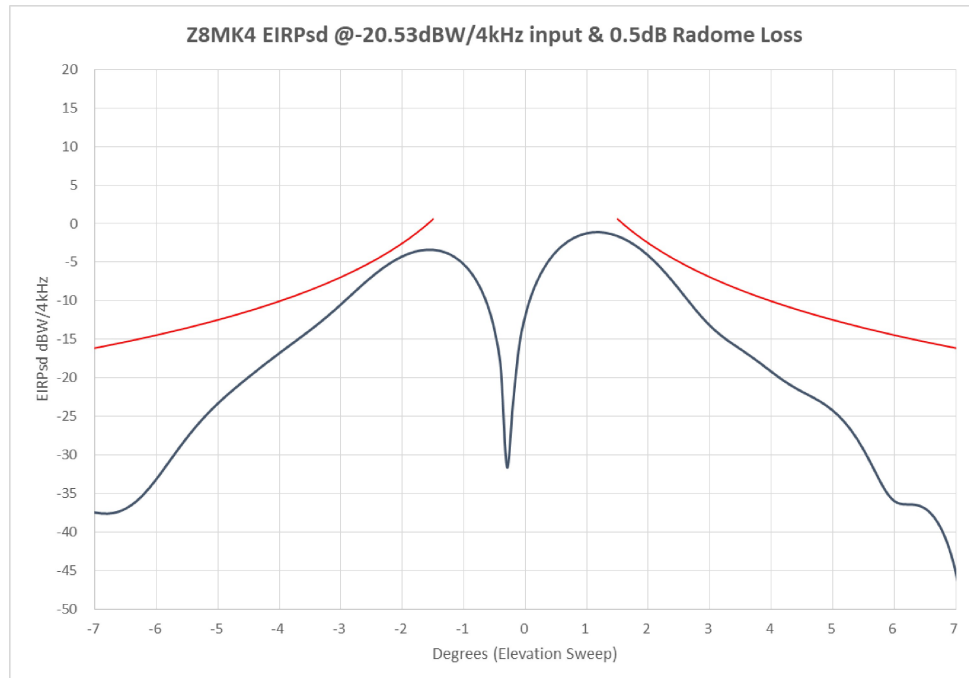
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7.2	-21.23	-41.76	-16.43331241	-4.79	0
7.3	-22.45	-42.98	-16.5830715	-5.87	0
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7.9	-40.62	-61.14	-17.44067728	-23.17	0
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8.1	-45.28	-65.81	-17.71212547	-27.57	0
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10.5	-39.41	-59.93	-20.52973248	-18.88	0
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12.8	-34.03	-54.55	-22.68024924	-11.35	0
12.9	-35.79	-56.31	-22.76474276	-13.02	0
13.0	-38.28	-58.81	-22.84858381	-15.43	0
13.1	-42.02	-62.55	-22.93178239	-19.09	0
13.2	-48.57	-69.10	-23.01434828	-25.55	0
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13.5	-41.83	-62.35	-23.25834421	-18.57	0
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13.9	-35.93	-56.45	-23.57537001	-12.35	0
14.0	-35.55	-56.08	-23.65320089	-11.90	0
14.1	-35.32	-55.85	-23.73047782	-11.59	0

14.2	-35.14	-55.67	-23.80720861	-11.33	0
14.3	-34.91	-55.44	-23.88340094	-11.03	0
14.4	-34.59	-55.11	-23.9590623	-10.63	0
14.5	-34.16	-54.68	-24.03420006	-10.12	0
14.6	-33.67	-54.19	-24.10882139	-9.56	0
14.7	-33.18	-53.70	-24.18293337	-8.99	0
14.8	-32.75	-53.28	-24.25654288	-8.49	0
14.9	-32.43	-52.96	-24.32965671	-8.10	0
15.0	-32.26	-52.79	-24.40228148	-7.86	0

6) 14.5GHz

b) At off-axis angles from $\pm 7^\circ$ range (Perpendicular)



Model Z8MK4
Frequency 14.50 [GHz]
GSO arc Perpendicular
EIRPsd Input -19.45 [dBW/4kHz]
Radome Loss 0.5 [dB]

Min input:
 (@all freq.) -20.53

out of spec.

Elevation [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-27.40	-47.93	-24.40228148	-3.00	0
-14.9	-27.39	-47.92	-24.32965671	-3.06	0
-14.8	-27.69	-48.22	-24.25654288	-3.43	0
-14.7	-28.32	-48.85	-24.18293337	-4.14	0
-14.6	-29.33	-49.85	-24.10882139	-5.22	0
-14.5	-30.79	-51.32	-24.03420006	-6.76	0
-14.4	-32.86	-53.39	-23.9590623	-8.90	0
-14.3	-35.82	-56.34	-23.88340094	-11.93	0
-14.2	-40.05	-60.58	-23.80720861	-16.24	0
-14.1	-43.76	-64.29	-23.73047782	-20.03	0
-14.0	-40.63	-61.16	-23.65320089	-16.98	0
-13.9	-36.79	-57.32	-23.57537001	-13.21	0
-13.8	-34.26	-54.79	-23.49697716	-10.76	0
-13.7	-32.66	-53.18	-23.41801418	-9.24	0
-13.6	-31.72	-52.25	-23.33847271	-8.38	0
-13.5	-31.32	-51.85	-23.25834421	-8.06	0
-13.4	-31.39	-51.92	-23.17761996	-8.21	0
-13.3	-31.90	-52.43	-23.09629102	-8.81	0
-13.2	-32.82	-53.35	-23.01434828	-9.81	0
-13.1	-34.02	-54.55	-22.93178239	-11.09	0
-13.0	-35.02	-55.55	-22.84858381	-12.17	0
-12.9	-34.92	-55.45	-22.76474276	-12.16	0
-12.8	-33.47	-54.00	-22.68024924	-10.79	0
-12.7	-31.47	-52.00	-22.59509302	-8.88	0
-12.6	-29.58	-50.11	-22.50926363	-7.07	0
-12.5	-28.01	-48.53	-22.42275033	-5.58	0
-12.4	-26.77	-47.29	-22.33554213	-4.43	0
-12.3	-25.84	-46.37	-22.24762779	-3.59	0
-12.2	-25.20	-45.73	-22.15899577	-3.04	0
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-4.8	-1.34	-21.86	-12.03103093	10.69	0
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-1.5	17.14	-3.39	0.597718524	16.54	0
-1.4	17.02	-3.51			
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-1.2	16.43	-4.10			
-1.1	15.92	-4.61			
-1.0	15.23	-5.30			
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-0.8	13.17	-7.36			
-0.7	11.64	-8.89			
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-0.5	6.61	-13.92			
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0.2	13.23	-7.30			
0.3	14.75	-5.78			
0.4	15.94	-4.58			
0.5	16.90	-3.63			
0.6	17.67	-2.86			
0.7	18.27	-2.26			
0.8	18.73	-1.80			
0.9	19.07	-1.46			
1.0	19.29	-1.24			
1.1	19.40	-1.12			
1.2	19.42	-1.11			
1.3	19.34	-1.18			
1.4	19.18	-1.35			
1.5	18.92	-1.61	0.597718524	18.32	0
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2.0	16.39	-4.14	-2.525749892	18.91	0
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2.4	13.00	-7.52	-4.505281043	17.51	0
2.5	12.02	-8.50	-4.948500217	16.97	0
2.6	11.02	-9.50	-5.374333699	16.40	0
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2.9	8.15	-12.38	-6.559949947	14.71	0
3.0	7.32	-13.21	-6.928031368	14.25	0
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4.8	-2.56	-23.09	-12.03103093	9.47	0
4.9	-3.09	-23.62	-12.254902	9.17	0
5.0	-3.70	-24.23	-12.47425011	8.77	0
5.1	-4.43	-24.96	-12.6892544	8.26	0
5.2	-5.28	-25.81	-12.90008359	7.62	0
5.3	-6.29	-26.82	-13.10689674	6.82	0
5.4	-7.45	-27.98	-13.309844	5.86	0
5.5	-8.78	-29.31	-13.50906724	4.73	0
5.6	-10.25	-30.78	-13.70470068	3.46	0
5.7	-11.81	-32.33	-13.89687139	2.09	0
5.8	-13.33	-33.85	-14.08569984	0.76	0
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6.2	-15.88	-36.41	-14.80979224	-1.07	0
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6.4	-16.04	-36.57	-15.15449935	-0.89	0
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7.7	-21.32	-41.85	-17.16226813	-4.16	0
7.8	-20.94	-41.47	-17.30236507	-3.64	0
7.9	-21.00	-41.53	-17.44067728	-3.56	0
8.0	-21.49	-42.02	-17.57724967	-3.91	0
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8.2	-23.95	-44.47	-17.84534631	-6.10	0
8.3	-26.20	-46.73	-17.97695231	-8.22	0
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8.6	-49.64	-70.17	-18.36246128	-31.28	0
8.7	-34.56	-55.08	-18.48798132	-16.07	0
8.8	-29.42	-49.95	-18.6120668	-10.81	0
8.9	-26.57	-47.10	-18.73475017	-7.84	0
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9.2	-23.10	-43.63	-19.09469568	-4.00	0
9.3	-22.90	-43.43	-19.21207371	-3.69	0
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10.7	-26.37	-46.90	-20.73459444	-5.64	0
10.8	-26.62	-47.15	-20.83559389	-5.79	0
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11.4	-33.80	-54.32	-21.42262128	-12.37	0
11.5	-32.05	-52.57	-21.51744601	-10.53	0
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11.8	-26.53	-47.05	-21.79705018	-4.73	0
11.9	-25.49	-46.01	-21.88867403	-3.60	0
12.0	-24.80	-45.33	-21.97953115	-2.82	0
12.1	-24.42	-44.95	-22.06963426	-2.35	0
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13.8	-31.49	-52.02	-23.49697716	-7.99	0
13.9	-32.34	-52.86	-23.57537001	-8.76	0
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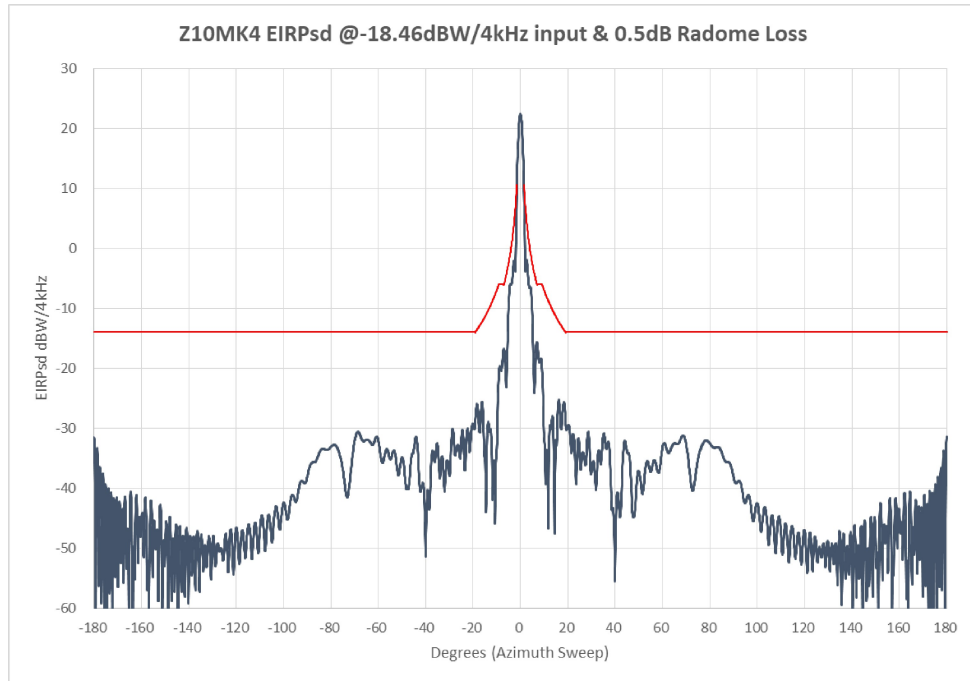
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14.6	-33.88	-54.41	-24.10882139	-9.77	0
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14.9	-29.33	-49.86	-24.32965671	-5.00	0
15.0	-28.67	-49.20	-24.40228148	-4.27	0

KNS Z10 Ku-band

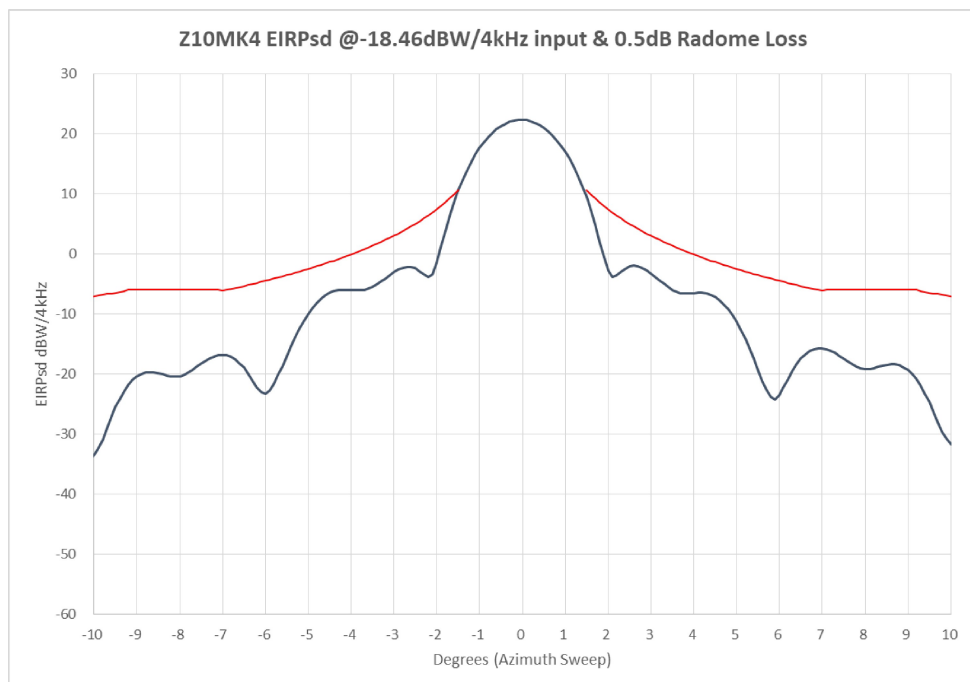
1. Maximum co-polarized EIRP density

1) 14GHz

a) At off-axis angles from $\pm 180^\circ$ range (Tangent)



b) At off-axis angles from $\pm 10^\circ$ range (Tangent)



Model Z10MK4
Frequency 14.00 [GHz]
GSO arc Tangent
EIRPsd Input -18.41 [dBW/4kHz]
Radome Loss 0.5 [dB]
40.83

Min input:
(@all freq.) -18.46

out of spec.

Azimuth [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
-180.0	-13.06	-31.52	-14	0.94	0
-179.9	-13.30	-31.76	-14	0.70	0
-179.8	-14.04	-32.50	-14	-0.04	0
-179.7	-15.36	-33.82	-14	-1.36	0
-179.6	-17.49	-35.95	-14	-3.49	0
-179.5	-20.92	-39.38	-14	-6.92	0
-179.4	-27.45	-45.91	-14	-13.45	0
-179.3	-43.38	-61.84	-14	-29.38	0
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7.9	-0.54	-19.00	-6	5.46	0
8.0	-0.66	-19.12	-6	5.34	0
8.1	-0.65	-19.11	-6	5.35	0
8.2	-0.53	-18.99	-6	5.47	0
8.3	-0.34	-18.81	-6	5.66	0
8.4	-0.15	-18.61	-6	5.85	0
8.5	0.01	-18.45	-6	6.01	0
8.6	0.10	-18.37	-6	6.10	0
8.7	0.07	-18.39	-6	6.07	0
8.8	-0.08	-18.54	-6	5.92	0
8.9	-0.38	-18.84	-6	5.62	0
9.0	-0.86	-19.32	-6	5.14	0
9.1	-1.52	-19.98	-6	4.48	0

9.2	-2.38	-20.84	-6	3.62	0
9.3	-3.45	-21.91	-6.212073714	2.76	0
9.4	-4.74	-23.20	-6.32819634	1.59	0
9.5	-6.24	-24.70	-6.443090132	0.21	0
9.6	-7.89	-26.36	-6.556780826	-1.34	0
9.7	-9.60	-28.06	-6.669293357	-2.93	0
9.8	-11.15	-29.62	-6.780651892	-4.37	0
9.9	-12.35	-30.81	-6.890879865	-5.46	0
10.0	-13.13	-31.59	-7	-6.13	0
10.1	-13.71	-32.17	-7.108034345	-6.60	0
10.2	-14.37	-32.84	-7.215004294	-7.16	0
10.3	-15.35	-33.81	-7.320930618	-8.02	0
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10.6	-20.52	-38.98	-7.632646632	-12.88	0
10.7	-20.93	-39.39	-7.734594442	-13.20	0
10.8	-19.47	-37.93	-7.835593887	-11.64	0
10.9	-17.61	-36.07	-7.935662449	-9.67	0
11.0	-16.17	-34.64	-8.034817129	-8.14	0
11.1	-15.34	-33.80	-8.13307447	-7.20	0
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11.4	-16.64	-35.11	-8.422621283	-8.22	0
11.5	-18.76	-37.22	-8.517446009	-10.24	0
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11.9	-20.17	-38.63	-8.888674035	-11.28	0
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12.2	-12.76	-31.22	-9.158995767	-3.60	0
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12.5	-11.04	-29.50	-9.422750325	-1.62	0
12.6	-11.10	-29.56	-9.509263628	-1.59	0
12.7	-11.32	-29.78	-9.595093024	-1.73	0
12.8	-11.58	-30.04	-9.680249241	-1.90	0
12.9	-11.71	-30.17	-9.764742757	-1.94	0
13.0	-11.59	-30.05	-9.848583808	-1.74	0
13.1	-11.22	-29.68	-9.931782391	-1.29	0
13.2	-10.69	-29.15	-10.01434828	-0.68	0
13.3	-10.16	-28.62	-10.09629102	-0.06	0
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13.5	-9.51	-27.98	-10.25834421	0.74	0
13.6	-9.54	-28.00	-10.33847271	0.80	0
13.7	-9.86	-28.32	-10.41801418	0.56	0
13.8	-10.51	-28.97	-10.49697716	-0.01	0
13.9	-11.57	-30.03	-10.57537001	-0.99	0
14.0	-13.13	-31.59	-10.65320089	-2.48	0
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14.4	-29.15	-47.61	-10.9590623	-18.19	0
14.5	-23.26	-41.72	-11.03420006	-12.23	0
14.6	-18.95	-37.41	-11.10882139	-7.84	0
14.7	-16.38	-34.84	-11.18293337	-5.20	0
14.8	-14.79	-33.25	-11.25654288	-3.53	0
14.9	-13.82	-32.28	-11.32965671	-2.49	0
15.0	-13.49	-31.95	-11.40228148	-2.09	0
15.1	-13.74	-32.20	-11.47442368	-2.27	0
15.2	-14.48	-32.95	-11.5460897	-2.94	0
15.3	-14.39	-32.85	-11.61728577	-2.77	0
15.4	-13.29	-31.75	-11.68801802	-1.60	0
15.5	-11.72	-30.19	-11.75829245	0.04	0
15.6	-10.36	-28.82	-11.82811496	1.47	0
15.7	-9.22	-27.68	-11.89749131	2.68	0
15.8	-8.31	-26.77	-11.96642717	3.65	0
15.9	-7.62	-26.09	-12.03492811	4.41	0
16.0	-7.15	-25.61	-12.10299957	4.95	0
16.1	-6.88	-25.34	-12.1706469	5.29	0
16.2	-6.80	-25.26	-12.23787536	5.44	0
16.3	-6.91	-25.37	-12.30469011	5.39	0
16.4	-7.19	-25.65	-12.3710962	5.18	0
16.5	-7.63	-26.09	-12.43709861	4.81	0
16.6	-8.21	-26.67	-12.5027022	4.30	0
16.7	-8.89	-27.35	-12.56791178	3.68	0
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16.9	-10.38	-28.85	-12.69716762	2.31	0
17.0	-11.04	-29.50	-12.76122303	1.73	0
17.1	-11.50	-29.96	-12.82490276	1.33	0
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17.4	-11.28	-29.75	-13.01373121	1.73	0
17.5	-10.79	-29.25	-13.07595122	2.29	0
17.6	-10.20	-28.66	-13.1378167	2.94	0
17.7	-9.58	-28.04	-13.19933166	3.62	0
17.8	-8.97	-27.43	-13.26050006	4.29	0
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18.0	-7.94	-26.40	-13.38181263	5.44	0
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18.2	-7.28	-25.75	-13.5017847	6.22	0
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18.8	-8.41	-26.87	-13.85394623	5.44	0
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19.0	-9.72	-28.18	-13.96884002	4.25	0
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19.2	-11.03	-29.49	-14	2.97	0
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19.4	-11.77	-30.23	-14	2.23	0
19.5	-11.83	-30.29	-14	2.17	0
19.6	-11.74	-30.20	-14	2.26	0
19.7	-11.57	-30.03	-14	2.43	0
19.8	-11.38	-29.85	-14	2.62	0
19.9	-11.22	-29.68	-14	2.78	0
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20.1	-11.03	-29.49	-14	2.97	0
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20.4	-11.09	-29.55	-14	2.91	0
20.5	-11.19	-29.66	-14	2.81	0
20.6	-11.35	-29.81	-14	2.65	0
20.7	-11.58	-30.04	-14	2.42	0
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21.0	-12.83	-31.29	-14	1.17	0
21.1	-13.46	-31.92	-14	0.54	0
21.2	-14.15	-32.62	-14	-0.15	0
21.3	-14.85	-33.31	-14	-0.85	0
21.4	-15.41	-33.87	-14	-1.41	0
21.5	-15.70	-34.16	-14	-1.70	0
21.6	-15.63	-34.09	-14	-1.63	0
21.7	-15.23	-33.69	-14	-1.23	0
21.8	-14.65	-33.11	-14	-0.65	0
21.9	-14.02	-32.48	-14	-0.02	0
22.0	-13.45	-31.91	-14	0.55	0
22.1	-13.01	-31.47	-14	0.99	0
22.2	-12.71	-31.17	-14	1.29	0
22.3	-12.58	-31.04	-14	1.42	0
22.4	-12.61	-31.07	-14	1.39	0
22.5	-12.80	-31.26	-14	1.20	0
22.6	-13.15	-31.61	-14	0.85	0
22.7	-13.65	-32.11	-14	0.35	0
22.8	-14.31	-32.77	-14	-0.31	0
22.9	-15.11	-33.58	-14	-1.11	0
23.0	-16.07	-34.53	-14	-2.07	0
23.1	-17.16	-35.63	-14	-3.16	0
23.2	-18.36	-36.82	-14	-4.36	0
23.3	-19.56	-38.02	-14	-5.56	0
23.4	-20.54	-39.00	-14	-6.54	0
23.5	-20.95	-39.41	-14	-6.95	0
23.6	-20.56	-39.02	-14	-6.56	0
23.7	-19.55	-38.01	-14	-5.55	0
23.8	-18.27	-36.74	-14	-4.27	0
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24.8	-14.00	-32.46	-14	0.00	0
24.9	-14.64	-33.10	-14	-0.64	0
25.0	-15.44	-33.90	-14	-1.44	0
25.1	-16.35	-34.82	-14	-2.35	0
25.2	-17.28	-35.74	-14	-3.28	0
25.3	-18.05	-36.51	-14	-4.05	0
25.4	-18.45	-36.92	-14	-4.45	0
25.5	-18.41	-36.87	-14	-4.41	0
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25.7	-17.41	-35.87	-14	-3.41	0
25.8	-16.82	-35.28	-14	-2.82	0
25.9	-16.31	-34.77	-14	-2.31	0
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26.2	-15.56	-34.02	-14	-1.56	0
26.3	-15.53	-33.99	-14	-1.53	0
26.4	-15.58	-34.04	-14	-1.58	0
26.5	-15.67	-34.13	-14	-1.67	0
26.6	-15.79	-34.25	-14	-1.79	0
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26.8	-16.07	-34.53	-14	-2.07	0
26.9	-16.24	-34.70	-14	-2.24	0
27.0	-16.45	-34.91	-14	-2.45	0
27.1	-16.71	-35.17	-14	-2.71	0
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27.3	-17.33	-35.79	-14	-3.33	0
27.4	-17.60	-36.06	-14	-3.60	0
27.5	-17.73	-36.19	-14	-3.73	0
27.6	-17.61	-36.08	-14	-3.61	0
27.7	-17.21	-35.67	-14	-3.21	0
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27.9	-15.76	-34.22	-14	-1.76	0
28.0	-14.92	-33.38	-14	-0.92	0
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28.2	-13.45	-31.92	-14	0.55	0
28.3	-12.91	-31.37	-14	1.09	0
28.4	-12.50	-30.97	-14	1.50	0
28.5	-12.26	-30.72	-14	1.74	0
28.6	-12.17	-30.63	-14	1.83	0
28.7	-12.23	-30.69	-14	1.77	0
28.8	-12.45	-30.92	-14	1.55	0
28.9	-12.83	-31.29	-14	1.17	0
29.0	-13.36	-31.83	-14	0.64	0
29.1	-14.04	-32.51	-14	-0.04	0

29.2	-14.86	-33.32	-14	-0.86	0
29.3	-15.78	-34.24	-14	-1.78	0
29.4	-16.75	-35.22	-14	-2.75	0
29.5	-17.70	-36.16	-14	-3.70	0
29.6	-18.49	-36.95	-14	-4.49	0
29.7	-19.01	-37.47	-14	-5.01	0
29.8	-19.19	-37.66	-14	-5.19	0
29.9	-19.08	-37.54	-14	-5.08	0
30.0	-18.79	-37.25	-14	-4.79	0
30.1	-18.41	-36.88	-14	-4.41	0
30.2	-18.05	-36.51	-14	-4.05	0
30.3	-17.72	-36.19	-14	-3.72	0
30.4	-17.47	-35.93	-14	-3.47	0
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31.0	-17.38	-35.84	-14	-3.38	0
31.1	-17.65	-36.11	-14	-3.65	0
31.2	-18.02	-36.48	-14	-4.02	0
31.3	-18.51	-36.97	-14	-4.51	0
31.4	-19.11	-37.57	-14	-5.11	0
31.5	-19.81	-38.28	-14	-5.81	0
31.6	-20.58	-39.04	-14	-6.58	0
31.7	-21.29	-39.75	-14	-7.29	0
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31.9	-21.88	-40.34	-14	-7.88	0
32.0	-21.49	-39.95	-14	-7.49	0
32.1	-20.72	-39.18	-14	-6.72	0
32.2	-19.77	-38.23	-14	-5.77	0
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32.6	-16.48	-34.94	-14	-2.48	0
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32.8	-15.62	-34.08	-14	-1.62	0
32.9	-15.39	-33.85	-14	-1.39	0
33.0	-15.28	-33.74	-14	-1.28	0
33.1	-15.29	-33.75	-14	-1.29	0
33.2	-15.41	-33.87	-14	-1.41	0
33.3	-15.64	-34.10	-14	-1.64	0
33.4	-15.94	-34.41	-14	-1.94	0
33.5	-16.32	-34.78	-14	-2.32	0
33.6	-16.73	-35.19	-14	-2.73	0
33.7	-17.11	-35.58	-14	-3.11	0
33.8	-17.42	-35.88	-14	-3.42	0
33.9	-17.56	-36.02	-14	-3.56	0
34.0	-17.49	-35.96	-14	-3.49	0
34.1	-17.20	-35.66	-14	-3.20	0

34.2	-16.71	-35.18	-14	-2.71	0
34.3	-16.11	-34.57	-14	-2.11	0
34.4	-15.45	-33.92	-14	-1.45	0
34.5	-14.81	-33.27	-14	-0.81	0
34.6	-14.21	-32.67	-14	-0.21	0
34.7	-13.68	-32.14	-14	0.32	0
34.8	-13.24	-31.70	-14	0.76	0
34.9	-12.90	-31.36	-14	1.10	0
35.0	-12.65	-31.11	-14	1.35	0
35.1	-12.50	-30.97	-14	1.50	0
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35.5	-12.85	-31.31	-14	1.15	0
35.6	-13.13	-31.59	-14	0.87	0
35.7	-13.47	-31.93	-14	0.53	0
35.8	-13.84	-32.30	-14	0.16	0
35.9	-14.20	-32.66	-14	-0.20	0
36.0	-14.53	-32.99	-14	-0.53	0
36.1	-14.77	-33.24	-14	-0.77	0
36.2	-14.91	-33.37	-14	-0.91	0
36.3	-14.93	-33.39	-14	-0.93	0
36.4	-14.84	-33.30	-14	-0.84	0
36.5	-14.66	-33.12	-14	-0.66	0
36.6	-14.44	-32.90	-14	-0.44	0
36.7	-14.21	-32.67	-14	-0.21	0
36.8	-14.01	-32.47	-14	-0.01	0
36.9	-13.86	-32.32	-14	0.14	0
37.0	-13.77	-32.23	-14	0.23	0
37.1	-13.77	-32.23	-14	0.23	0
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37.3	-14.05	-32.51	-14	-0.05	0
37.4	-14.34	-32.80	-14	-0.34	0
37.5	-14.75	-33.21	-14	-0.75	0
37.6	-15.27	-33.73	-14	-1.27	0
37.7	-15.91	-34.37	-14	-1.91	0
37.8	-16.68	-35.14	-14	-2.68	0
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38.1	-19.79	-38.25	-14	-5.79	0
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38.3	-22.35	-40.82	-14	-8.35	0
38.4	-23.57	-42.03	-14	-9.57	0
38.5	-24.54	-43.00	-14	-10.54	0
38.6	-25.10	-43.56	-14	-11.10	0
38.7	-25.25	-43.71	-14	-11.25	0
38.8	-25.13	-43.59	-14	-11.13	0
38.9	-24.92	-43.38	-14	-10.92	0
39.0	-24.79	-43.25	-14	-10.79	0
39.1	-24.82	-43.28	-14	-10.82	0

39.2	-25.08	-43.54	-14	-11.08	0
39.3	-25.62	-44.08	-14	-11.62	0
39.4	-26.48	-44.94	-14	-12.48	0
39.5	-27.75	-46.21	-14	-13.75	0
39.6	-29.55	-48.01	-14	-15.55	0
39.7	-32.03	-50.49	-14	-18.03	0
39.8	-35.18	-53.64	-14	-21.18	0
39.9	-37.04	-55.50	-14	-23.04	0
40.0	-34.69	-53.15	-14	-20.69	0
40.1	-31.37	-49.83	-14	-17.37	0
40.2	-28.74	-47.20	-14	-14.74	0
40.3	-26.77	-45.23	-14	-12.77	0
40.4	-25.28	-43.74	-14	-11.28	0
40.5	-24.17	-42.63	-14	-10.17	0
40.6	-23.36	-41.82	-14	-9.36	0
40.7	-22.78	-41.25	-14	-8.78	0
40.8	-22.42	-40.88	-14	-8.42	0
40.9	-22.24	-40.70	-14	-8.24	0
41.0	-22.22	-40.68	-14	-8.22	0
41.1	-22.34	-40.80	-14	-8.34	0
41.2	-22.59	-41.05	-14	-8.59	0
41.3	-22.94	-41.40	-14	-8.94	0
41.4	-23.37	-41.83	-14	-9.37	0
41.5	-23.86	-42.32	-14	-9.86	0
41.6	-24.38	-42.84	-14	-10.38	0
41.7	-24.90	-43.36	-14	-10.90	0
41.8	-25.39	-43.86	-14	-11.39	0
41.9	-25.82	-44.28	-14	-11.82	0
42.0	-26.14	-44.60	-14	-12.14	0
42.1	-26.30	-44.77	-14	-12.30	0
42.2	-26.26	-44.72	-14	-12.26	0
42.3	-25.94	-44.40	-14	-11.94	0
42.4	-25.34	-43.80	-14	-11.34	0
42.5	-24.47	-42.93	-14	-10.47	0
42.6	-23.41	-41.87	-14	-9.41	0
42.7	-22.26	-40.72	-14	-8.26	0
42.8	-21.09	-39.55	-14	-7.09	0
42.9	-19.95	-38.41	-14	-5.95	0
43.0	-18.88	-37.34	-14	-4.88	0
43.1	-17.90	-36.37	-14	-3.90	0
43.2	-17.03	-35.49	-14	-3.03	0
43.3	-16.26	-34.72	-14	-2.26	0
43.4	-15.59	-34.05	-14	-1.59	0
43.5	-15.02	-33.49	-14	-1.02	0
43.6	-14.56	-33.02	-14	-0.56	0
43.7	-14.20	-32.66	-14	-0.20	0
43.8	-13.93	-32.39	-14	0.07	0
43.9	-13.75	-32.22	-14	0.25	0
44.0	-13.66	-32.12	-14	0.34	0
44.1	-13.65	-32.12	-14	0.35	0

44.2	-13.72	-32.18	-14	0.28	0
44.3	-13.85	-32.31	-14	0.15	0
44.4	-14.04	-32.50	-14	-0.04	0
44.5	-14.27	-32.73	-14	-0.27	0
44.6	-14.53	-32.99	-14	-0.53	0
44.7	-14.79	-33.26	-14	-0.79	0
44.8	-15.05	-33.51	-14	-1.05	0
44.9	-15.26	-33.73	-14	-1.26	0
45.0	-15.44	-33.90	-14	-1.44	0
45.1	-15.55	-34.01	-14	-1.55	0
45.2	-15.61	-34.08	-14	-1.61	0
45.3	-15.63	-34.09	-14	-1.63	0
45.4	-15.62	-34.09	-14	-1.62	0
45.5	-15.61	-34.07	-14	-1.61	0
45.6	-15.61	-34.08	-14	-1.61	0
45.7	-15.65	-34.11	-14	-1.65	0
45.8	-15.74	-34.20	-14	-1.74	0
45.9	-15.89	-34.35	-14	-1.89	0
46.0	-16.12	-34.58	-14	-2.12	0
46.1	-16.43	-34.89	-14	-2.43	0
46.2	-16.82	-35.28	-14	-2.82	0
46.3	-17.31	-35.77	-14	-3.31	0
46.4	-17.90	-36.36	-14	-3.90	0
46.5	-18.58	-37.04	-14	-4.58	0
46.6	-19.36	-37.82	-14	-5.36	0
46.7	-20.23	-38.69	-14	-6.23	0
46.8	-21.17	-39.63	-14	-7.17	0
46.9	-22.16	-40.63	-14	-8.16	0
47.0	-23.17	-41.63	-14	-9.17	0
47.1	-24.11	-42.58	-14	-10.11	0
47.2	-24.94	-43.40	-14	-10.94	0
47.3	-25.58	-44.05	-14	-11.58	0
47.4	-26.01	-44.48	-14	-12.01	0
47.5	-26.25	-44.71	-14	-12.25	0
47.6	-26.35	-44.81	-14	-12.35	0
47.7	-26.37	-44.83	-14	-12.37	0
47.8	-26.35	-44.81	-14	-12.35	0
47.9	-26.30	-44.77	-14	-12.30	0
48.0	-26.24	-44.70	-14	-12.24	0
48.1	-26.11	-44.57	-14	-12.11	0
48.2	-25.89	-44.35	-14	-11.89	0
48.3	-25.55	-44.01	-14	-11.55	0
48.4	-25.08	-43.54	-14	-11.08	0
48.5	-24.50	-42.96	-14	-10.50	0
48.6	-23.84	-42.30	-14	-9.84	0
48.7	-23.14	-41.60	-14	-9.14	0
48.8	-22.44	-40.90	-14	-8.44	0
48.9	-21.77	-40.23	-14	-7.77	0
49.0	-21.14	-39.61	-14	-7.14	0
49.1	-20.59	-39.05	-14	-6.59	0

49.2	-20.10	-38.56	-14	-6.10	0
49.3	-19.68	-38.14	-14	-5.68	0
49.4	-19.34	-37.80	-14	-5.34	0
49.5	-19.07	-37.53	-14	-5.07	0
49.6	-18.87	-37.33	-14	-4.87	0
49.7	-18.73	-37.19	-14	-4.73	0
49.8	-18.66	-37.12	-14	-4.66	0
49.9	-18.64	-37.10	-14	-4.64	0
50.0	-18.68	-37.15	-14	-4.68	0
50.1	-18.78	-37.24	-14	-4.78	0
50.2	-18.92	-37.38	-14	-4.92	0
50.3	-19.11	-37.57	-14	-5.11	0
50.4	-19.34	-37.80	-14	-5.34	0
50.5	-19.60	-38.06	-14	-5.60	0
50.6	-19.90	-38.36	-14	-5.90	0
50.7	-20.22	-38.68	-14	-6.22	0
50.8	-20.56	-39.02	-14	-6.56	0
50.9	-20.92	-39.38	-14	-6.92	0
51.0	-21.27	-39.73	-14	-7.27	0
51.1	-21.61	-40.07	-14	-7.61	0
51.2	-21.92	-40.38	-14	-7.92	0
51.3	-22.18	-40.64	-14	-8.18	0
51.4	-22.37	-40.84	-14	-8.37	0
51.5	-22.48	-40.94	-14	-8.48	0
51.6	-22.48	-40.94	-14	-8.48	0
51.7	-22.37	-40.84	-14	-8.37	0
51.8	-22.16	-40.63	-14	-8.16	0
51.9	-21.87	-40.33	-14	-7.87	0
52.0	-21.50	-39.96	-14	-7.50	0
52.1	-21.08	-39.54	-14	-7.08	0
52.2	-20.63	-39.09	-14	-6.63	0
52.3	-20.18	-38.64	-14	-6.18	0
52.4	-19.73	-38.19	-14	-5.73	0
52.5	-19.30	-37.76	-14	-5.30	0
52.6	-18.90	-37.36	-14	-4.90	0
52.7	-18.53	-36.99	-14	-4.53	0
52.8	-18.19	-36.66	-14	-4.19	0
52.9	-17.90	-36.36	-14	-3.90	0
53.0	-17.64	-36.11	-14	-3.64	0
53.1	-17.43	-35.89	-14	-3.43	0
53.2	-17.26	-35.72	-14	-3.26	0
53.3	-17.13	-35.59	-14	-3.13	0
53.4	-17.04	-35.50	-14	-3.04	0
53.5	-16.99	-35.46	-14	-2.99	0
53.6	-16.99	-35.45	-14	-2.99	0
53.7	-17.02	-35.48	-14	-3.02	0
53.8	-17.09	-35.55	-14	-3.09	0
53.9	-17.19	-35.66	-14	-3.19	0
54.0	-17.33	-35.79	-14	-3.33	0
54.1	-17.49	-35.95	-14	-3.49	0

54.2	-17.68	-36.14	-14	-3.68	0
54.3	-17.88	-36.34	-14	-3.88	0
54.4	-18.08	-36.54	-14	-4.08	0
54.5	-18.28	-36.74	-14	-4.28	0
54.6	-18.46	-36.93	-14	-4.46	0
54.7	-18.62	-37.08	-14	-4.62	0
54.8	-18.74	-37.20	-14	-4.74	0
54.9	-18.81	-37.27	-14	-4.81	0
55.0	-18.83	-37.29	-14	-4.83	0
55.1	-18.79	-37.25	-14	-4.79	0
55.2	-18.70	-37.16	-14	-4.70	0
55.3	-18.57	-37.03	-14	-4.57	0
55.4	-18.40	-36.86	-14	-4.40	0
55.5	-18.21	-36.67	-14	-4.21	0
55.6	-18.00	-36.46	-14	-4.00	0
55.7	-17.80	-36.26	-14	-3.80	0
55.8	-17.60	-36.06	-14	-3.60	0
55.9	-17.42	-35.88	-14	-3.42	0
56.0	-17.26	-35.73	-14	-3.26	0
56.1	-17.13	-35.59	-14	-3.13	0
56.2	-17.02	-35.49	-14	-3.02	0
56.3	-16.95	-35.41	-14	-2.95	0
56.4	-16.90	-35.36	-14	-2.90	0
56.5	-16.89	-35.35	-14	-2.89	0
56.6	-16.90	-35.36	-14	-2.90	0
56.7	-16.95	-35.41	-14	-2.95	0
56.8	-17.02	-35.48	-14	-3.02	0
56.9	-17.11	-35.57	-14	-3.11	0
57.0	-17.23	-35.69	-14	-3.23	0
57.1	-17.37	-35.83	-14	-3.37	0
57.2	-17.53	-35.99	-14	-3.53	0
57.3	-17.69	-36.16	-14	-3.69	0
57.4	-17.87	-36.33	-14	-3.87	0
57.5	-18.06	-36.52	-14	-4.06	0
57.6	-18.24	-36.70	-14	-4.24	0
57.7	-18.42	-36.88	-14	-4.42	0
57.8	-18.59	-37.05	-14	-4.59	0
57.9	-18.74	-37.20	-14	-4.74	0
58.0	-18.87	-37.33	-14	-4.87	0
58.1	-18.96	-37.42	-14	-4.96	0
58.2	-19.02	-37.48	-14	-5.02	0
58.3	-19.03	-37.49	-14	-5.03	0
58.4	-18.99	-37.46	-14	-4.99	0
58.5	-18.91	-37.37	-14	-4.91	0
58.6	-18.76	-37.23	-14	-4.76	0
58.7	-18.57	-37.03	-14	-4.57	0
58.8	-18.33	-36.80	-14	-4.33	0
58.9	-18.06	-36.52	-14	-4.06	0
59.0	-17.75	-36.21	-14	-3.75	0
59.1	-17.42	-35.89	-14	-3.42	0

59.2	-17.08	-35.55	-14	-3.08	0
59.3	-16.74	-35.20	-14	-2.74	0
59.4	-16.40	-34.86	-14	-2.40	0
59.5	-16.07	-34.53	-14	-2.07	0
59.6	-15.75	-34.21	-14	-1.75	0
59.7	-15.45	-33.91	-14	-1.45	0
59.8	-15.18	-33.64	-14	-1.18	0
59.9	-14.93	-33.39	-14	-0.93	0
60.0	-14.70	-33.17	-14	-0.70	0
60.1	-14.51	-32.97	-14	-0.51	0
60.2	-14.35	-32.81	-14	-0.35	0
60.3	-14.21	-32.68	-14	-0.21	0
60.4	-14.11	-32.57	-14	-0.11	0
60.5	-14.04	-32.50	-14	-0.04	0
60.6	-13.99	-32.45	-14	0.01	0
60.7	-13.98	-32.44	-14	0.02	0
60.8	-13.99	-32.45	-14	0.01	0
60.9	-14.03	-32.49	-14	-0.03	0
61.0	-14.09	-32.55	-14	-0.09	0
61.1	-14.17	-32.63	-14	-0.17	0
61.2	-14.27	-32.73	-14	-0.27	0
61.3	-14.39	-32.85	-14	-0.39	0
61.4	-14.52	-32.98	-14	-0.52	0
61.5	-14.66	-33.12	-14	-0.66	0
61.6	-14.80	-33.27	-14	-0.80	0
61.7	-14.95	-33.41	-14	-0.95	0
61.8	-15.09	-33.55	-14	-1.09	0
61.9	-15.22	-33.69	-14	-1.22	0
62.0	-15.34	-33.81	-14	-1.34	0
62.1	-15.45	-33.91	-14	-1.45	0
62.2	-15.53	-34.00	-14	-1.53	0
62.3	-15.60	-34.06	-14	-1.60	0
62.4	-15.64	-34.10	-14	-1.64	0
62.5	-15.66	-34.12	-14	-1.66	0
62.6	-15.66	-34.12	-14	-1.66	0
62.7	-15.64	-34.10	-14	-1.64	0
62.8	-15.60	-34.06	-14	-1.60	0
62.9	-15.54	-34.00	-14	-1.54	0
63.0	-15.47	-33.93	-14	-1.47	0
63.1	-15.39	-33.85	-14	-1.39	0
63.2	-15.31	-33.77	-14	-1.31	0
63.3	-15.21	-33.68	-14	-1.21	0
63.4	-15.12	-33.58	-14	-1.12	0
63.5	-15.02	-33.48	-14	-1.02	0
63.6	-14.92	-33.39	-14	-0.92	0
63.7	-14.83	-33.29	-14	-0.83	0
63.8	-14.74	-33.20	-14	-0.74	0
63.9	-14.65	-33.11	-14	-0.65	0
64.0	-14.56	-33.02	-14	-0.56	0
64.1	-14.48	-32.94	-14	-0.48	0

64.2	-14.41	-32.87	-14	-0.41	0
64.3	-14.34	-32.80	-14	-0.34	0
64.4	-14.28	-32.74	-14	-0.28	0
64.5	-14.23	-32.69	-14	-0.23	0
64.6	-14.18	-32.64	-14	-0.18	0
64.7	-14.14	-32.61	-14	-0.14	0
64.8	-14.11	-32.57	-14	-0.11	0
64.9	-14.09	-32.55	-14	-0.09	0
65.0	-14.07	-32.54	-14	-0.07	0
65.1	-14.07	-32.53	-14	-0.07	0
65.2	-14.06	-32.53	-14	-0.06	0
65.3	-14.07	-32.53	-14	-0.07	0
65.4	-14.08	-32.54	-14	-0.08	0
65.5	-14.09	-32.56	-14	-0.09	0
65.6	-14.11	-32.57	-14	-0.11	0
65.7	-14.13	-32.59	-14	-0.13	0
65.8	-14.15	-32.61	-14	-0.15	0
65.9	-14.17	-32.63	-14	-0.17	0
66.0	-14.19	-32.65	-14	-0.19	0
66.1	-14.20	-32.66	-14	-0.20	0
66.2	-14.21	-32.67	-14	-0.21	0
66.3	-14.21	-32.67	-14	-0.21	0
66.4	-14.20	-32.66	-14	-0.20	0
66.5	-14.18	-32.64	-14	-0.18	0
66.6	-14.15	-32.61	-14	-0.15	0
66.7	-14.11	-32.57	-14	-0.11	0
66.8	-14.06	-32.52	-14	-0.06	0
66.9	-14.00	-32.46	-14	0.00	0
67.0	-13.93	-32.39	-14	0.07	0
67.1	-13.85	-32.31	-14	0.15	0
67.2	-13.76	-32.23	-14	0.24	0
67.3	-13.67	-32.13	-14	0.33	0
67.4	-13.58	-32.04	-14	0.42	0
67.5	-13.48	-31.94	-14	0.52	0
67.6	-13.38	-31.84	-14	0.62	0
67.7	-13.28	-31.75	-14	0.72	0
67.8	-13.19	-31.65	-14	0.81	0
67.9	-13.10	-31.56	-14	0.90	0
68.0	-13.02	-31.48	-14	0.98	0
68.1	-12.95	-31.41	-14	1.05	0
68.2	-12.89	-31.35	-14	1.11	0
68.3	-12.83	-31.29	-14	1.17	0
68.4	-12.79	-31.25	-14	1.21	0
68.5	-12.76	-31.23	-14	1.24	0
68.6	-12.75	-31.21	-14	1.25	0
68.7	-12.75	-31.21	-14	1.25	0
68.8	-12.76	-31.22	-14	1.24	0
68.9	-12.79	-31.25	-14	1.21	0
69.0	-12.84	-31.30	-14	1.16	0
69.1	-12.90	-31.36	-14	1.10	0

69.2	-12.98	-31.44	-14	1.02	0
69.3	-13.08	-31.54	-14	0.92	0
69.4	-13.19	-31.65	-14	0.81	0
69.5	-13.32	-31.78	-14	0.68	0
69.6	-13.47	-31.93	-14	0.53	0
69.7	-13.63	-32.09	-14	0.37	0
69.8	-13.81	-32.28	-14	0.19	0
69.9	-14.01	-32.48	-14	-0.01	0
70.0	-14.23	-32.69	-14	-0.23	0
70.1	-14.47	-32.93	-14	-0.47	0
70.2	-14.72	-33.18	-14	-0.72	0
70.3	-14.98	-33.44	-14	-0.98	0
70.4	-15.26	-33.73	-14	-1.26	0
70.5	-15.56	-34.02	-14	-1.56	0
70.6	-15.87	-34.34	-14	-1.87	0
70.7	-16.20	-34.66	-14	-2.20	0
70.8	-16.53	-35.00	-14	-2.53	0
70.9	-16.88	-35.34	-14	-2.88	0
71.0	-17.24	-35.70	-14	-3.24	0
71.1	-17.61	-36.07	-14	-3.61	0
71.2	-17.98	-36.44	-14	-3.98	0
71.3	-18.35	-36.81	-14	-4.35	0
71.4	-18.73	-37.19	-14	-4.73	0
71.5	-19.10	-37.56	-14	-5.10	0
71.6	-19.47	-37.93	-14	-5.47	0
71.7	-19.83	-38.30	-14	-5.83	0
71.8	-20.18	-38.65	-14	-6.18	0
71.9	-20.52	-38.98	-14	-6.52	0
72.0	-20.83	-39.29	-14	-6.83	0
72.1	-21.12	-39.58	-14	-7.12	0
72.2	-21.37	-39.83	-14	-7.37	0
72.3	-21.59	-40.05	-14	-7.59	0
72.4	-21.77	-40.23	-14	-7.77	0
72.5	-21.90	-40.36	-14	-7.90	0
72.6	-21.98	-40.44	-14	-7.98	0
72.7	-22.01	-40.48	-14	-8.01	0
72.8	-22.00	-40.46	-14	-8.00	0
72.9	-21.93	-40.39	-14	-7.93	0
73.0	-21.81	-40.27	-14	-7.81	0
73.1	-21.65	-40.11	-14	-7.65	0
73.2	-21.46	-39.92	-14	-7.46	0
73.3	-21.23	-39.69	-14	-7.23	0
73.4	-20.97	-39.43	-14	-6.97	0
73.5	-20.70	-39.16	-14	-6.70	0
73.6	-20.41	-38.87	-14	-6.41	0
73.7	-20.11	-38.57	-14	-6.11	0
73.8	-19.81	-38.27	-14	-5.81	0
73.9	-19.50	-37.97	-14	-5.50	0
74.0	-19.20	-37.66	-14	-5.20	0
74.1	-18.90	-37.37	-14	-4.90	0

74.2	-18.61	-37.07	-14	-4.61	0
74.3	-18.33	-36.79	-14	-4.33	0
74.4	-18.05	-36.52	-14	-4.05	0
74.5	-17.79	-36.25	-14	-3.79	0
74.6	-17.53	-36.00	-14	-3.53	0
74.7	-17.29	-35.75	-14	-3.29	0
74.8	-17.06	-35.52	-14	-3.06	0
74.9	-16.84	-35.30	-14	-2.84	0
75.0	-16.63	-35.09	-14	-2.63	0
75.1	-16.43	-34.89	-14	-2.43	0
75.2	-16.24	-34.70	-14	-2.24	0
75.3	-16.06	-34.53	-14	-2.06	0
75.4	-15.89	-34.36	-14	-1.89	0
75.5	-15.73	-34.20	-14	-1.73	0
75.6	-15.58	-34.04	-14	-1.58	0
75.7	-15.44	-33.90	-14	-1.44	0
75.8	-15.30	-33.76	-14	-1.30	0
75.9	-15.17	-33.63	-14	-1.17	0
76.0	-15.05	-33.51	-14	-1.05	0
76.1	-14.93	-33.39	-14	-0.93	0
76.2	-14.82	-33.28	-14	-0.82	0
76.3	-14.72	-33.18	-14	-0.72	0
76.4	-14.62	-33.08	-14	-0.62	0
76.5	-14.52	-32.98	-14	-0.52	0
76.6	-14.43	-32.89	-14	-0.43	0
76.7	-14.34	-32.80	-14	-0.34	0
76.8	-14.26	-32.72	-14	-0.26	0
76.9	-14.18	-32.65	-14	-0.18	0
77.0	-14.11	-32.57	-14	-0.11	0
77.1	-14.04	-32.50	-14	-0.04	0
77.2	-13.98	-32.44	-14	0.02	0
77.3	-13.92	-32.38	-14	0.08	0
77.4	-13.86	-32.33	-14	0.14	0
77.5	-13.81	-32.28	-14	0.19	0
77.6	-13.77	-32.23	-14	0.23	0
77.7	-13.73	-32.19	-14	0.27	0
77.8	-13.69	-32.15	-14	0.31	0
77.9	-13.66	-32.12	-14	0.34	0
78.0	-13.64	-32.10	-14	0.36	0
78.1	-13.62	-32.08	-14	0.38	0
78.2	-13.60	-32.06	-14	0.40	0
78.3	-13.59	-32.05	-14	0.41	0
78.4	-13.59	-32.05	-14	0.41	0
78.5	-13.59	-32.05	-14	0.41	0
78.6	-13.59	-32.05	-14	0.41	0
78.7	-13.60	-32.06	-14	0.40	0
78.8	-13.62	-32.08	-14	0.38	0
78.9	-13.63	-32.10	-14	0.37	0
79.0	-13.66	-32.12	-14	0.34	0
79.1	-13.69	-32.15	-14	0.31	0

79.2	-13.72	-32.18	-14	0.28	0
79.3	-13.75	-32.21	-14	0.25	0
79.4	-13.79	-32.25	-14	0.21	0
79.5	-13.83	-32.30	-14	0.17	0
79.6	-13.88	-32.34	-14	0.12	0
79.7	-13.93	-32.39	-14	0.07	0
79.8	-13.98	-32.44	-14	0.02	0
79.9	-14.03	-32.49	-14	-0.03	0
80.0	-14.08	-32.54	-14	-0.08	0
80.1	-14.13	-32.60	-14	-0.13	0
80.2	-14.19	-32.65	-14	-0.19	0
80.3	-14.24	-32.71	-14	-0.24	0
80.4	-14.30	-32.76	-14	-0.30	0
80.5	-14.35	-32.81	-14	-0.35	0
80.6	-14.41	-32.87	-14	-0.41	0
80.7	-14.46	-32.92	-14	-0.46	0
80.8	-14.51	-32.97	-14	-0.51	0
80.9	-14.55	-33.01	-14	-0.55	0
81.0	-14.60	-33.06	-14	-0.60	0
81.1	-14.64	-33.10	-14	-0.64	0
81.2	-14.67	-33.13	-14	-0.67	0
81.3	-14.70	-33.17	-14	-0.70	0
81.4	-14.73	-33.19	-14	-0.73	0
81.5	-14.76	-33.22	-14	-0.76	0
81.6	-14.77	-33.24	-14	-0.77	0
81.7	-14.79	-33.25	-14	-0.79	0
81.8	-14.80	-33.26	-14	-0.80	0
81.9	-14.80	-33.27	-14	-0.80	0
82.0	-14.81	-33.27	-14	-0.80	0
82.1	-14.80	-33.26	-14	-0.80	0
82.2	-14.80	-33.26	-14	-0.80	0
82.3	-14.79	-33.25	-14	-0.79	0
82.4	-14.78	-33.24	-14	-0.78	0
82.5	-14.77	-33.23	-14	-0.77	0
82.6	-14.75	-33.21	-14	-0.75	0
82.7	-14.74	-33.20	-14	-0.74	0
82.8	-14.73	-33.19	-14	-0.73	0
82.9	-14.71	-33.18	-14	-0.71	0
83.0	-14.70	-33.17	-14	-0.70	0
83.1	-14.70	-33.16	-14	-0.70	0
83.2	-14.69	-33.15	-14	-0.69	0
83.3	-14.69	-33.15	-14	-0.69	0
83.4	-14.70	-33.16	-14	-0.70	0
83.5	-14.71	-33.17	-14	-0.71	0
83.6	-14.72	-33.18	-14	-0.72	0
83.7	-14.74	-33.20	-14	-0.74	0
83.8	-14.77	-33.23	-14	-0.77	0
83.9	-14.80	-33.26	-14	-0.80	0
84.0	-14.84	-33.30	-14	-0.84	0
84.1	-14.89	-33.35	-14	-0.89	0

84.2	-14.95	-33.41	-14	-0.95	0
84.3	-15.01	-33.47	-14	-1.01	0
84.4	-15.08	-33.54	-14	-1.08	0
84.5	-15.15	-33.62	-14	-1.15	0
84.6	-15.24	-33.70	-14	-1.24	0
84.7	-15.33	-33.79	-14	-1.33	0
84.8	-15.42	-33.88	-14	-1.42	0
84.9	-15.52	-33.98	-14	-1.52	0
85.0	-15.63	-34.09	-14	-1.63	0
85.1	-15.74	-34.20	-14	-1.74	0
85.2	-15.85	-34.31	-14	-1.85	0
85.3	-15.96	-34.42	-14	-1.96	0
85.4	-16.08	-34.54	-14	-2.08	0
85.5	-16.19	-34.65	-14	-2.19	0
85.6	-16.30	-34.77	-14	-2.30	0
85.7	-16.41	-34.88	-14	-2.41	0
85.8	-16.52	-34.98	-14	-2.52	0
85.9	-16.62	-35.08	-14	-2.62	0
86.0	-16.71	-35.18	-14	-2.71	0
86.1	-16.80	-35.26	-14	-2.80	0
86.2	-16.88	-35.34	-14	-2.88	0
86.3	-16.95	-35.41	-14	-2.95	0
86.4	-17.01	-35.47	-14	-3.01	0
86.5	-17.06	-35.52	-14	-3.06	0
86.6	-17.10	-35.56	-14	-3.10	0
86.7	-17.13	-35.60	-14	-3.13	0
86.8	-17.16	-35.62	-14	-3.16	0
86.9	-17.17	-35.64	-14	-3.17	0
87.0	-17.18	-35.65	-14	-3.18	0
87.1	-17.19	-35.65	-14	-3.19	0
87.2	-17.19	-35.65	-14	-3.19	0
87.3	-17.19	-35.65	-14	-3.19	0
87.4	-17.19	-35.65	-14	-3.19	0
87.5	-17.19	-35.65	-14	-3.19	0
87.6	-17.19	-35.65	-14	-3.19	0
87.7	-17.19	-35.65	-14	-3.19	0
87.8	-17.20	-35.66	-14	-3.20	0
87.9	-17.22	-35.68	-14	-3.22	0
88.0	-17.24	-35.70	-14	-3.24	0
88.1	-17.27	-35.73	-14	-3.27	0
88.2	-17.31	-35.77	-14	-3.31	0
88.3	-17.36	-35.82	-14	-3.36	0
88.4	-17.42	-35.88	-14	-3.42	0
88.5	-17.49	-35.95	-14	-3.49	0
88.6	-17.57	-36.03	-14	-3.57	0
88.7	-17.66	-36.13	-14	-3.66	0
88.8	-17.77	-36.23	-14	-3.77	0
88.9	-17.89	-36.35	-14	-3.89	0
89.0	-18.02	-36.48	-14	-4.02	0
89.1	-18.16	-36.62	-14	-4.16	0

89.2	-18.31	-36.77	-14	-4.31	0
89.3	-18.47	-36.93	-14	-4.47	0
89.4	-18.64	-37.10	-14	-4.64	0
89.5	-18.81	-37.28	-14	-4.81	0
89.6	-19.00	-37.46	-14	-5.00	0
89.7	-19.18	-37.64	-14	-5.18	0
89.8	-19.37	-37.83	-14	-5.37	0
89.9	-19.56	-38.02	-14	-5.56	0
90.0	-19.74	-38.20	-14	-5.74	0
90.1	-19.92	-38.38	-14	-5.92	0
90.2	-20.08	-38.55	-14	-6.08	0
90.3	-20.24	-38.70	-14	-6.24	0
90.4	-20.38	-38.84	-14	-6.38	0
90.5	-20.50	-38.96	-14	-6.50	0
90.6	-20.60	-39.06	-14	-6.60	0
90.7	-20.68	-39.14	-14	-6.68	0
90.8	-20.73	-39.20	-14	-6.73	0
90.9	-20.77	-39.23	-14	-6.77	0
91.0	-20.78	-39.24	-14	-6.78	0
91.1	-20.78	-39.24	-14	-6.78	0
91.2	-20.75	-39.21	-14	-6.75	0
91.3	-20.72	-39.18	-14	-6.72	0
91.4	-20.67	-39.13	-14	-6.67	0
91.5	-20.61	-39.08	-14	-6.61	0
91.6	-20.56	-39.02	-14	-6.56	0
91.7	-20.50	-38.96	-14	-6.50	0
91.8	-20.44	-38.91	-14	-6.44	0
91.9	-20.39	-38.86	-14	-6.39	0
92.0	-20.35	-38.81	-14	-6.35	0
92.1	-20.32	-38.78	-14	-6.32	0
92.2	-20.30	-38.77	-14	-6.30	0
92.3	-20.30	-38.76	-14	-6.30	0
92.4	-20.31	-38.78	-14	-6.31	0
92.5	-20.34	-38.80	-14	-6.34	0
92.6	-20.39	-38.85	-14	-6.39	0
92.7	-20.46	-38.92	-14	-6.46	0
92.8	-20.54	-39.01	-14	-6.54	0
92.9	-20.65	-39.11	-14	-6.65	0
93.0	-20.78	-39.24	-14	-6.78	0
93.1	-20.92	-39.38	-14	-6.92	0
93.2	-21.09	-39.55	-14	-7.09	0
93.3	-21.27	-39.73	-14	-7.27	0
93.4	-21.47	-39.94	-14	-7.47	0
93.5	-21.69	-40.15	-14	-7.69	0
93.6	-21.92	-40.38	-14	-7.92	0
93.7	-22.16	-40.62	-14	-8.16	0
93.8	-22.41	-40.87	-14	-8.41	0
93.9	-22.66	-41.12	-14	-8.66	0
94.0	-22.91	-41.37	-14	-8.91	0
94.1	-23.15	-41.61	-14	-9.15	0

94.2	-23.37	-41.83	-14	-9.37	0
94.3	-23.57	-42.03	-14	-9.57	0
94.4	-23.74	-42.21	-14	-9.74	0
94.5	-23.88	-42.34	-14	-9.88	0
94.6	-23.97	-42.44	-14	-9.97	0
94.7	-24.03	-42.49	-14	-10.03	0
94.8	-24.04	-42.50	-14	-10.04	0
94.9	-24.01	-42.47	-14	-10.01	0
95.0	-23.94	-42.41	-14	-9.94	0
95.1	-23.85	-42.31	-14	-9.85	0
95.2	-23.73	-42.19	-14	-9.73	0
95.3	-23.59	-42.06	-14	-9.59	0
95.4	-23.45	-41.91	-14	-9.45	0
95.5	-23.31	-41.77	-14	-9.31	0
95.6	-23.17	-41.63	-14	-9.17	0
95.7	-23.04	-41.50	-14	-9.04	0
95.8	-22.93	-41.39	-14	-8.93	0
95.9	-22.83	-41.29	-14	-8.83	0
96.0	-22.76	-41.22	-14	-8.76	0
96.1	-22.71	-41.17	-14	-8.71	0
96.2	-22.69	-41.15	-14	-8.69	0
96.3	-22.69	-41.15	-14	-8.69	0
96.4	-22.73	-41.19	-14	-8.73	0
96.5	-22.79	-41.26	-14	-8.79	0
96.6	-22.89	-41.36	-14	-8.89	0
96.7	-23.02	-41.49	-14	-9.02	0
96.8	-23.19	-41.65	-14	-9.19	0
96.9	-23.39	-41.85	-14	-9.39	0
97.0	-23.62	-42.08	-14	-9.62	0
97.1	-23.88	-42.34	-14	-9.88	0
97.2	-24.17	-42.63	-14	-10.17	0
97.3	-24.48	-42.95	-14	-10.48	0
97.4	-24.82	-43.28	-14	-10.82	0
97.5	-25.18	-43.64	-14	-11.18	0
97.6	-25.54	-44.00	-14	-11.54	0
97.7	-25.90	-44.36	-14	-11.90	0
97.8	-26.24	-44.70	-14	-12.24	0
97.9	-26.54	-45.01	-14	-12.54	0
98.0	-26.80	-45.26	-14	-12.80	0
98.1	-26.98	-45.44	-14	-12.98	0
98.2	-27.08	-45.54	-14	-13.08	0
98.3	-27.09	-45.55	-14	-13.09	0
98.4	-27.01	-45.48	-14	-13.01	0
98.5	-26.86	-45.32	-14	-12.86	0
98.6	-26.64	-45.10	-14	-12.64	0
98.7	-26.37	-44.83	-14	-12.37	0
98.8	-26.07	-44.54	-14	-12.07	0
98.9	-25.77	-44.23	-14	-11.77	0
99.0	-25.47	-43.93	-14	-11.47	0
99.1	-25.18	-43.64	-14	-11.18	0

99.2	-24.91	-43.37	-14	-10.91	0
99.3	-24.67	-43.13	-14	-10.67	0
99.4	-24.47	-42.93	-14	-10.47	0
99.5	-24.30	-42.76	-14	-10.30	0
99.6	-24.17	-42.63	-14	-10.17	0
99.7	-24.08	-42.54	-14	-10.08	0
99.8	-24.04	-42.50	-14	-10.04	0
99.9	-24.04	-42.50	-14	-10.04	0
100.0	-24.08	-42.55	-14	-10.08	0
100.1	-24.18	-42.64	-14	-10.18	0
100.2	-24.31	-42.77	-14	-10.31	0
100.3	-24.50	-42.96	-14	-10.50	0
100.4	-24.73	-43.19	-14	-10.73	0
100.5	-25.00	-43.47	-14	-11.00	0
100.6	-25.32	-43.79	-14	-11.32	0
100.7	-25.69	-44.15	-14	-11.69	0
100.8	-26.09	-44.55	-14	-12.09	0
100.9	-26.52	-44.98	-14	-12.52	0
101.0	-26.97	-45.44	-14	-12.97	0
101.1	-27.43	-45.89	-14	-13.43	0
101.2	-27.87	-46.33	-14	-13.87	0
101.3	-28.26	-46.72	-14	-14.26	0
101.4	-28.56	-47.03	-14	-14.56	0
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101.7	-28.74	-47.21	-14	-14.74	0
101.8	-28.54	-47.00	-14	-14.54	0
101.9	-28.22	-46.68	-14	-14.22	0
102.0	-27.84	-46.30	-14	-13.84	0
102.1	-27.42	-45.88	-14	-13.42	0
102.2	-26.98	-45.44	-14	-12.98	0
102.3	-26.56	-45.02	-14	-12.56	0
102.4	-26.16	-44.62	-14	-12.16	0
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102.6	-25.48	-43.94	-14	-11.48	0
102.7	-25.21	-43.67	-14	-11.21	0
102.8	-24.99	-43.46	-14	-10.99	0
102.9	-24.83	-43.29	-14	-10.83	0
103.0	-24.72	-43.18	-14	-10.72	0
103.1	-24.66	-43.13	-14	-10.66	0
103.2	-24.67	-43.13	-14	-10.67	0
103.3	-24.73	-43.19	-14	-10.73	0
103.4	-24.84	-43.31	-14	-10.84	0
103.5	-25.02	-43.48	-14	-11.02	0
103.6	-25.26	-43.72	-14	-11.26	0
103.7	-25.56	-44.02	-14	-11.56	0
103.8	-25.92	-44.38	-14	-11.92	0
103.9	-26.35	-44.81	-14	-12.35	0
104.0	-26.84	-45.30	-14	-12.84	0
104.1	-27.38	-45.85	-14	-13.38	0

104.2	-27.98	-46.44	-14	-13.98	0
104.3	-28.62	-47.08	-14	-14.62	0
104.4	-29.26	-47.72	-14	-15.26	0
104.5	-29.88	-48.34	-14	-15.88	0
104.6	-30.41	-48.87	-14	-16.41	0
104.7	-30.80	-49.26	-14	-16.80	0
104.8	-30.97	-49.44	-14	-16.97	0
104.9	-30.92	-49.38	-14	-16.92	0
105.0	-30.64	-49.11	-14	-16.64	0
105.1	-30.21	-48.67	-14	-16.21	0
105.2	-29.67	-48.13	-14	-15.67	0
105.3	-29.10	-47.56	-14	-15.10	0
105.4	-28.53	-47.00	-14	-14.53	0
105.5	-28.00	-46.46	-14	-14.00	0
105.6	-27.52	-45.99	-14	-13.52	0
105.7	-27.11	-45.57	-14	-13.11	0
105.8	-26.76	-45.22	-14	-12.76	0
105.9	-26.48	-44.94	-14	-12.48	0
106.0	-26.28	-44.74	-14	-12.28	0
106.1	-26.14	-44.60	-14	-12.14	0
106.2	-26.08	-44.54	-14	-12.08	0
106.3	-26.09	-44.55	-14	-12.09	0
106.4	-26.18	-44.64	-14	-12.18	0
106.5	-26.34	-44.80	-14	-12.34	0
106.6	-26.58	-45.04	-14	-12.58	0
106.7	-26.89	-45.35	-14	-12.89	0
106.8	-27.29	-45.75	-14	-13.29	0
106.9	-27.76	-46.22	-14	-13.76	0
107.0	-28.32	-46.78	-14	-14.32	0
107.1	-28.95	-47.41	-14	-14.95	0
107.2	-29.65	-48.11	-14	-15.65	0
107.3	-30.38	-48.84	-14	-16.38	0
107.4	-31.11	-49.57	-14	-17.11	0
107.5	-31.77	-50.23	-14	-17.77	0
107.6	-32.25	-50.71	-14	-18.25	0
107.7	-32.46	-50.92	-14	-18.46	0
107.8	-32.35	-50.81	-14	-18.35	0
107.9	-31.94	-50.40	-14	-17.94	0
108.0	-31.33	-49.79	-14	-17.33	0
108.1	-30.62	-49.08	-14	-16.62	0
108.2	-29.88	-48.35	-14	-15.88	0
108.3	-29.18	-47.64	-14	-15.18	0
108.4	-28.54	-47.00	-14	-14.54	0
108.5	-27.97	-46.43	-14	-13.97	0
108.6	-27.48	-45.95	-14	-13.48	0
108.7	-27.08	-45.54	-14	-13.08	0
108.8	-26.76	-45.22	-14	-12.76	0
108.9	-26.52	-44.98	-14	-12.52	0
109.0	-26.36	-44.83	-14	-12.36	0
109.1	-26.29	-44.75	-14	-12.29	0

109.2	-26.29	-44.75	-14	-12.29	0
109.3	-26.37	-44.83	-14	-12.37	0
109.4	-26.53	-45.00	-14	-12.53	0
109.5	-26.78	-45.24	-14	-12.78	0
109.6	-27.10	-45.56	-14	-13.10	0
109.7	-27.51	-45.97	-14	-13.51	0
109.8	-28.00	-46.47	-14	-14.00	0
109.9	-28.58	-47.04	-14	-14.58	0
110.0	-29.23	-47.69	-14	-15.23	0
110.1	-29.94	-48.41	-14	-15.94	0
110.2	-30.69	-49.15	-14	-16.69	0
110.3	-31.43	-49.89	-14	-17.43	0
110.4	-32.07	-50.54	-14	-18.07	0
110.5	-32.53	-51.00	-14	-18.53	0
110.6	-32.72	-51.18	-14	-18.72	0
110.7	-32.59	-51.05	-14	-18.59	0
110.8	-32.19	-50.65	-14	-18.19	0
110.9	-31.61	-50.07	-14	-17.61	0
111.0	-30.95	-49.41	-14	-16.95	0
111.1	-30.28	-48.74	-14	-16.28	0
111.2	-29.64	-48.11	-14	-15.64	0
111.3	-29.08	-47.54	-14	-15.08	0
111.4	-28.59	-47.05	-14	-14.59	0
111.5	-28.19	-46.65	-14	-14.19	0
111.6	-27.88	-46.34	-14	-13.88	0
111.7	-27.66	-46.12	-14	-13.66	0
111.8	-27.52	-45.98	-14	-13.52	0
111.9	-27.47	-45.93	-14	-13.47	0
112.0	-27.51	-45.97	-14	-13.51	0
112.1	-27.64	-46.10	-14	-13.64	0
112.2	-27.86	-46.32	-14	-13.86	0
112.3	-28.16	-46.62	-14	-14.16	0
112.4	-28.56	-47.02	-14	-14.56	0
112.5	-29.05	-47.51	-14	-15.05	0
112.6	-29.63	-48.09	-14	-15.63	0
112.7	-30.30	-48.76	-14	-16.30	0
112.8	-31.04	-49.50	-14	-17.04	0
112.9	-31.83	-50.29	-14	-17.83	0
113.0	-32.60	-51.06	-14	-18.60	0
113.1	-33.28	-51.74	-14	-19.28	0
113.2	-33.74	-52.20	-14	-19.74	0
113.3	-33.88	-52.34	-14	-19.88	0
113.4	-33.66	-52.12	-14	-19.66	0
113.5	-33.16	-51.62	-14	-19.16	0
113.6	-32.47	-50.93	-14	-18.47	0
113.7	-31.72	-50.18	-14	-17.72	0
113.8	-30.98	-49.44	-14	-16.98	0
113.9	-30.29	-48.75	-14	-16.29	0
114.0	-29.68	-48.14	-14	-15.68	0
114.1	-29.15	-47.61	-14	-15.15	0

114.2	-28.72	-47.18	-14	-14.72	0
114.3	-28.37	-46.84	-14	-14.37	0
114.4	-28.12	-46.58	-14	-14.12	0
114.5	-27.95	-46.41	-14	-13.95	0
114.6	-27.86	-46.32	-14	-13.86	0
114.7	-27.86	-46.32	-14	-13.86	0
114.8	-27.93	-46.39	-14	-13.93	0
114.9	-28.09	-46.55	-14	-14.09	0
115.0	-28.33	-46.79	-14	-14.33	0
115.1	-28.65	-47.11	-14	-14.65	0
115.2	-29.04	-47.50	-14	-15.04	0
115.3	-29.51	-47.97	-14	-15.51	0
115.4	-30.05	-48.51	-14	-16.05	0
115.5	-30.64	-49.10	-14	-16.64	0
115.6	-31.27	-49.73	-14	-17.27	0
115.7	-31.90	-50.36	-14	-17.90	0
115.8	-32.48	-50.95	-14	-18.48	0
115.9	-32.95	-51.41	-14	-18.95	0
116.0	-33.23	-51.70	-14	-19.23	0
116.1	-33.29	-51.75	-14	-19.29	0
116.2	-33.11	-51.57	-14	-19.11	0
116.3	-32.74	-51.20	-14	-18.74	0
116.4	-32.24	-50.70	-14	-18.24	0
116.5	-31.69	-50.15	-14	-17.69	0
116.6	-31.14	-49.60	-14	-17.14	0
116.7	-30.62	-49.09	-14	-16.62	0
116.8	-30.16	-48.62	-14	-16.16	0
116.9	-29.77	-48.23	-14	-15.77	0
117.0	-29.45	-47.91	-14	-15.45	0
117.1	-29.22	-47.68	-14	-15.22	0
117.2	-29.06	-47.52	-14	-15.06	0
117.3	-28.99	-47.45	-14	-14.99	0
117.4	-29.01	-47.47	-14	-15.01	0
117.5	-29.11	-47.57	-14	-15.11	0
117.6	-29.30	-47.76	-14	-15.30	0
117.7	-29.58	-48.04	-14	-15.58	0
117.8	-29.95	-48.41	-14	-15.95	0
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118.3	-32.96	-51.42	-14	-18.96	0
118.4	-33.59	-52.05	-14	-19.59	0
118.5	-34.07	-52.53	-14	-20.07	0
118.6	-34.27	-52.73	-14	-20.27	0
118.7	-34.15	-52.61	-14	-20.15	0
118.8	-33.72	-52.18	-14	-19.72	0
118.9	-33.08	-51.54	-14	-19.08	0
119.0	-32.33	-50.80	-14	-18.33	0
119.1	-31.58	-50.04	-14	-17.58	0

119.2	-30.87	-49.33	-14	-16.87	0
119.3	-30.23	-48.69	-14	-16.23	0
119.4	-29.69	-48.15	-14	-15.69	0
119.5	-29.25	-47.71	-14	-15.25	0
119.6	-28.91	-47.37	-14	-14.91	0
119.7	-28.68	-47.14	-14	-14.68	0
119.8	-28.55	-47.01	-14	-14.55	0
119.9	-28.53	-47.00	-14	-14.53	0
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120.2	-29.16	-47.62	-14	-15.16	0
120.3	-29.61	-48.07	-14	-15.61	0
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120.9	-34.73	-53.19	-14	-20.73	0
121.0	-35.43	-53.89	-14	-21.43	0
121.1	-35.62	-54.08	-14	-21.62	0
121.2	-35.22	-53.68	-14	-21.22	0
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121.7	-30.69	-49.15	-14	-16.69	0
121.8	-30.06	-48.52	-14	-16.06	0
121.9	-29.57	-48.03	-14	-15.57	0
122.0	-29.23	-47.69	-14	-15.23	0
122.1	-29.02	-47.48	-14	-15.02	0
122.2	-28.96	-47.42	-14	-14.96	0
122.3	-29.03	-47.49	-14	-15.03	0
122.4	-29.24	-47.70	-14	-15.24	0
122.5	-29.58	-48.05	-14	-15.58	0
122.6	-30.08	-48.54	-14	-16.08	0
122.7	-30.72	-49.18	-14	-16.72	0
122.8	-31.50	-49.97	-14	-17.50	0
122.9	-32.42	-50.88	-14	-18.42	0
123.0	-33.41	-51.87	-14	-19.41	0
123.1	-34.38	-52.84	-14	-20.38	0
123.2	-35.13	-53.59	-14	-21.13	0
123.3	-35.42	-53.89	-14	-21.42	0
123.4	-35.15	-53.61	-14	-21.15	0
123.5	-34.44	-52.90	-14	-20.44	0
123.6	-33.52	-51.98	-14	-19.52	0
123.7	-32.57	-51.04	-14	-18.57	0
123.8	-31.72	-50.18	-14	-17.72	0
123.9	-31.00	-49.46	-14	-17.00	0
124.0	-30.42	-48.88	-14	-16.42	0
124.1	-30.00	-48.46	-14	-16.00	0

124.2	-29.72	-48.18	-14	-15.72	0
124.3	-29.59	-48.05	-14	-15.59	0
124.4	-29.59	-48.05	-14	-15.59	0
124.5	-29.73	-48.19	-14	-15.73	0
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124.7	-30.39	-48.85	-14	-16.39	0
124.8	-30.90	-49.36	-14	-16.90	0
124.9	-31.50	-49.96	-14	-17.50	0
125.0	-32.15	-50.62	-14	-18.15	0
125.1	-32.81	-51.27	-14	-18.81	0
125.2	-33.37	-51.83	-14	-19.37	0
125.3	-33.75	-52.21	-14	-19.75	0
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125.7	-32.92	-51.38	-14	-18.92	0
125.8	-32.45	-50.91	-14	-18.45	0
125.9	-32.02	-50.48	-14	-18.02	0
126.0	-31.69	-50.15	-14	-17.69	0
126.1	-31.47	-49.93	-14	-17.47	0
126.2	-31.36	-49.82	-14	-17.36	0
126.3	-31.37	-49.84	-14	-17.37	0
126.4	-31.50	-49.96	-14	-17.50	0
126.5	-31.73	-50.19	-14	-17.73	0
126.6	-32.04	-50.50	-14	-18.04	0
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126.8	-32.72	-51.18	-14	-18.72	0
126.9	-32.99	-51.45	-14	-18.99	0
127.0	-33.11	-51.57	-14	-19.11	0
127.1	-33.06	-51.52	-14	-19.06	0
127.2	-32.83	-51.29	-14	-18.83	0
127.3	-32.47	-50.93	-14	-18.47	0
127.4	-32.05	-50.51	-14	-18.05	0
127.5	-31.62	-50.09	-14	-17.62	0
127.6	-31.25	-49.71	-14	-17.25	0
127.7	-30.96	-49.43	-14	-16.96	0
127.8	-30.79	-49.25	-14	-16.79	0
127.9	-30.74	-49.20	-14	-16.74	0
128.0	-30.83	-49.29	-14	-16.83	0
128.1	-31.06	-49.52	-14	-17.06	0
128.2	-31.43	-49.89	-14	-17.43	0
128.3	-31.95	-50.41	-14	-17.95	0
128.4	-32.58	-51.04	-14	-18.58	0
128.5	-33.28	-51.74	-14	-19.28	0
128.6	-33.97	-52.43	-14	-19.97	0
128.7	-34.49	-52.95	-14	-20.49	0
128.8	-34.69	-53.15	-14	-20.69	0
128.9	-34.48	-52.94	-14	-20.48	0
129.0	-33.93	-52.39	-14	-19.93	0
129.1	-33.19	-51.65	-14	-19.19	0

129.2	-32.41	-50.87	-14	-18.41	0
129.3	-31.70	-50.16	-14	-17.70	0
129.4	-31.11	-49.58	-14	-17.11	0
129.5	-30.68	-49.14	-14	-16.68	0
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129.7	-30.30	-48.76	-14	-16.30	0
129.8	-30.37	-48.83	-14	-16.37	0
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130.0	-31.05	-49.51	-14	-17.05	0
130.1	-31.66	-50.12	-14	-17.66	0
130.2	-32.44	-50.90	-14	-18.44	0
130.3	-33.34	-51.80	-14	-19.34	0
130.4	-34.27	-52.74	-14	-20.27	0
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130.7	-35.23	-53.70	-14	-21.23	0
130.8	-34.58	-53.04	-14	-20.58	0
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131.0	-32.81	-51.27	-14	-18.81	0
131.1	-32.03	-50.49	-14	-18.03	0
131.2	-31.42	-49.88	-14	-17.42	0
131.3	-31.00	-49.46	-14	-17.00	0
131.4	-30.77	-49.23	-14	-16.77	0
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131.7	-31.22	-49.68	-14	-17.22	0
131.8	-31.72	-50.18	-14	-17.72	0
131.9	-32.35	-50.81	-14	-18.35	0
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132.2	-34.14	-52.60	-14	-20.14	0
132.3	-34.19	-52.66	-14	-20.19	0
132.4	-33.84	-52.31	-14	-19.84	0
132.5	-33.22	-51.68	-14	-19.22	0
132.6	-32.49	-50.96	-14	-18.49	0
132.7	-31.82	-50.28	-14	-17.82	0
132.8	-31.27	-49.74	-14	-17.27	0
132.9	-30.91	-49.37	-14	-16.91	0
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133.3	-31.69	-50.15	-14	-17.69	0
133.4	-32.55	-51.01	-14	-18.55	0
133.5	-33.72	-52.18	-14	-19.72	0
133.6	-35.18	-53.64	-14	-21.18	0
133.7	-36.73	-55.19	-14	-22.73	0
133.8	-37.75	-56.21	-14	-23.75	0
133.9	-37.39	-55.86	-14	-23.39	0
134.0	-35.87	-54.33	-14	-21.87	0
134.1	-34.05	-52.51	-14	-20.05	0

134.2	-32.42	-50.88	-14	-18.42	0
134.3	-31.10	-49.56	-14	-17.10	0
134.4	-30.09	-48.55	-14	-16.09	0
134.5	-29.37	-47.83	-14	-15.37	0
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134.7	-28.71	-47.18	-14	-14.71	0
134.8	-28.77	-47.23	-14	-14.77	0
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135.5	-39.26	-57.72	-14	-25.26	0
135.6	-41.06	-59.52	-14	-27.06	0
135.7	-39.19	-57.65	-14	-25.19	0
135.8	-36.23	-54.69	-14	-22.23	0
135.9	-33.82	-52.29	-14	-19.82	0
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136.5	-29.18	-47.64	-14	-15.18	0
136.6	-29.51	-47.97	-14	-15.51	0
136.7	-30.12	-48.59	-14	-16.12	0
136.8	-31.03	-49.49	-14	-17.03	0
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139.2	-29.44	-47.90	-14	-15.44	0
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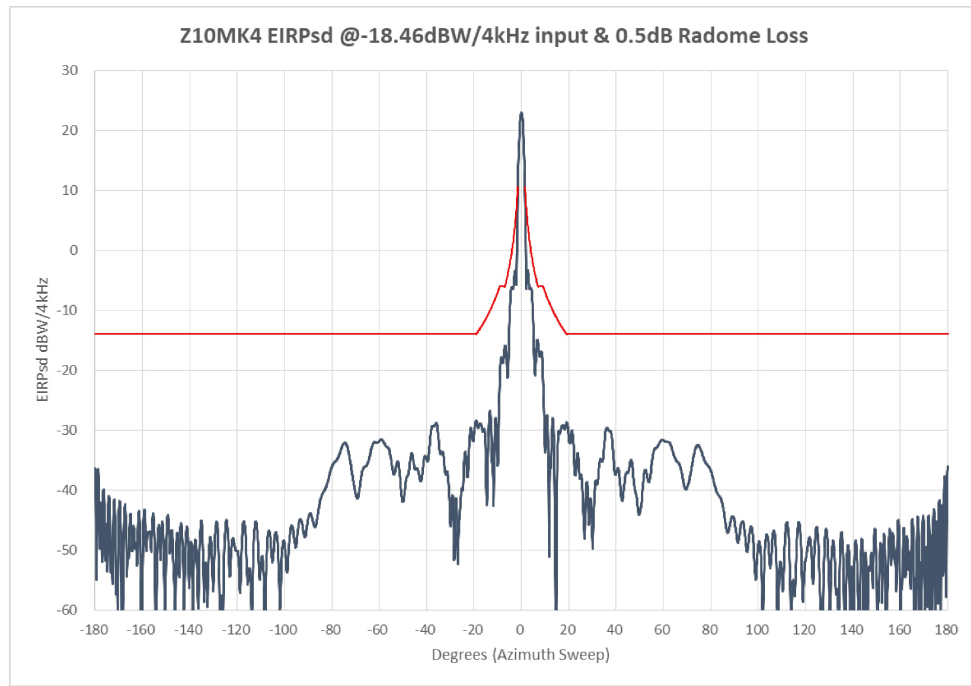
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169.6	-29.06	-47.52	-14	-15.06	0
169.7	-33.26	-51.72	-14	-19.26	0
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170.9	-29.64	-48.10	-14	-15.64	0
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171.2	-32.18	-50.64	-14	-18.18	0
171.3	-28.28	-46.74	-14	-14.28	0
171.4	-25.99	-44.45	-14	-11.99	0
171.5	-24.71	-43.18	-14	-10.71	0
171.6	-24.22	-42.68	-14	-10.22	0
171.7	-24.42	-42.88	-14	-10.42	0
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172.1	-38.62	-57.08	-14	-24.62	0
172.2	-42.74	-61.20	-14	-28.74	0
172.3	-31.69	-50.16	-14	-17.69	0
172.4	-27.19	-45.65	-14	-13.19	0
172.5	-24.60	-43.06	-14	-10.60	0
172.6	-23.04	-41.50	-14	-9.04	0
172.7	-22.21	-40.67	-14	-8.21	0
172.8	-21.99	-40.46	-14	-7.99	0
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173.4	-45.11	-63.57	-14	-31.11	0
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173.8	-23.18	-41.65	-14	-9.18	0
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175.2	-21.06	-39.52	-14	-7.06	0
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175.6	-33.03	-51.49	-14	-19.03	0
175.7	-49.72	-68.18	-14	-35.72	0
175.8	-30.70	-49.16	-14	-16.70	0
175.9	-25.41	-43.87	-14	-11.41	0
176.0	-22.52	-40.98	-14	-8.52	0
176.1	-20.81	-39.27	-14	-6.81	0
176.2	-19.90	-38.36	-14	-5.90	0
176.3	-19.64	-38.10	-14	-5.64	0
176.4	-20.01	-38.47	-14	-6.01	0
176.5	-21.09	-39.55	-14	-7.09	0
176.6	-23.12	-41.58	-14	-9.12	0
176.7	-26.76	-45.22	-14	-12.76	0
176.8	-34.79	-53.25	-14	-20.79	0
176.9	-38.07	-56.53	-14	-24.07	0
177.0	-27.50	-45.96	-14	-13.50	0
177.1	-23.10	-41.57	-14	-9.10	0
177.2	-20.58	-39.04	-14	-6.58	0
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177.6	-18.71	-37.17	-14	-4.71	0
177.7	-19.98	-38.44	-14	-5.98	0
177.8	-22.31	-40.77	-14	-8.31	0
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178.0	-38.56	-57.02	-14	-24.56	0
178.1	-31.59	-50.06	-14	-17.59	0
178.2	-23.90	-42.36	-14	-9.90	0
178.3	-20.09	-38.55	-14	-6.09	0
178.4	-17.76	-36.22	-14	-3.76	0
178.5	-16.32	-34.78	-14	-2.32	0
178.6	-15.52	-33.99	-14	-1.52	0
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178.8	-15.59	-34.06	-14	-1.59	0
178.9	-16.51	-34.97	-14	-2.51	0
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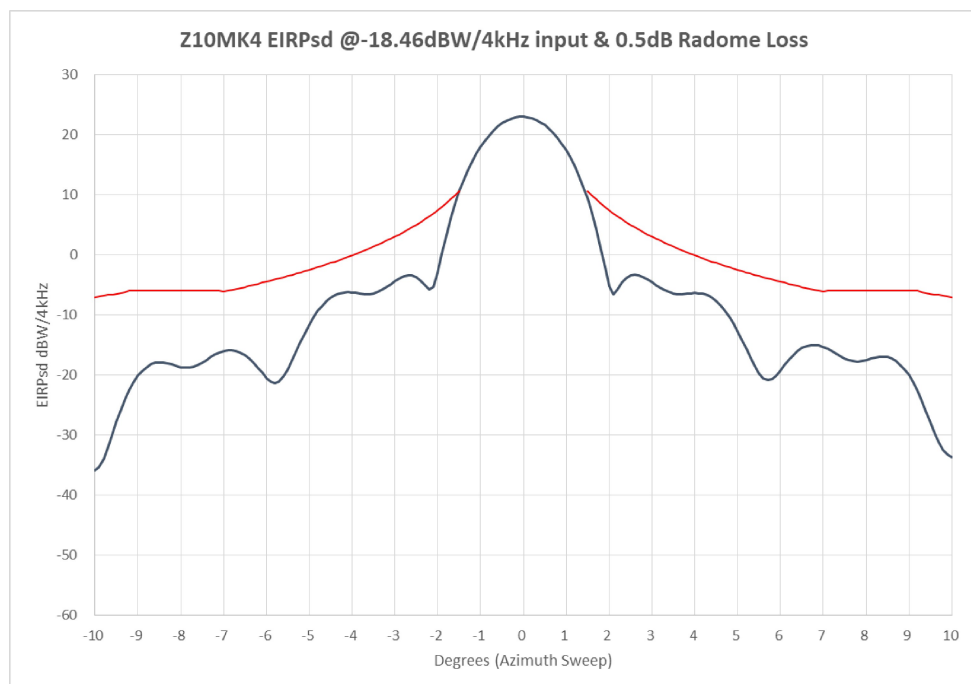
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179.5	-20.50	-38.96	-14	-6.50	0
179.6	-17.26	-35.73	-14	-3.26	0
179.7	-15.23	-33.69	-14	-1.23	0
179.8	-13.95	-32.41	-14	0.05	0
179.9	-13.24	-31.70	-14	0.76	0
180.0	-13.01	-31.47	-14	0.99	0

3) 14.5GHz

a) At off-axis angles from $\pm 180^\circ$ range (Tangent)



b) At off-axis angles from $\pm 10^\circ$ range (Tangent)



Model Z10MK4
Frequency 14.50 [GHz]
GSO arc Tangent
EIRPsd Input -18.41 [dBW/4kHz]
Radome Loss 0.5 [dB]
41.47

Min input:
(@all freq.) -18.46

out of spec.

Azimuth [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
-180.0	-17.85	-36.31	-14	-3.85	0
-179.9	-18.12	-36.58	-14	-4.12	0
-179.8	-18.97	-37.43	-14	-4.97	0
-179.7	-20.52	-38.98	-14	-6.52	0
-179.6	-23.08	-41.54	-14	-9.08	0
-179.5	-27.48	-45.94	-14	-13.48	0
-179.4	-36.56	-55.02	-14	-22.56	0
-179.3	-32.41	-50.87	-14	-18.41	0
-179.2	-25.64	-44.10	-14	-11.64	0
-179.1	-22.13	-40.59	-14	-8.13	0
-179.0	-20.03	-38.49	-14	-6.03	0
-178.9	-18.78	-37.24	-14	-4.78	0
-178.8	-18.15	-36.61	-14	-4.15	0
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-178.6	-18.43	-36.89	-14	-4.43	0
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-1.2	34.02	15.56			
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-0.1	41.45	22.99			
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0.1	41.39	22.93			
0.2	41.22	22.75			
0.3	40.94	22.48			
0.4	40.55	22.09			
0.5	40.07	21.60			
0.6	39.47	21.01			
0.7	38.76	20.29			
0.8	37.92	19.46			
0.9	36.96	18.50			
1.0	35.87	17.41			
1.1	34.63	16.17			
1.2	33.23	14.77			
1.3	31.64	13.18			
1.4	29.85	11.39			
1.5	27.82	9.36	10.59771852	17.23	0
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4.8	8.25	-10.21	-2.031030934	10.28	0
4.9	7.08	-11.38	-2.254902001	9.34	0
5.0	5.78	-12.68	-2.474250108	8.25	0
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5.3	1.39	-17.07	-3.10689674	4.50	0
5.4	0.00	-18.47	-3.309843996	3.31	0
5.5	-1.19	-19.66	-3.509067237	2.32	0
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6.1	0.16	-18.30	-4.633245875	4.79	0
6.2	1.05	-17.41	-4.809792237	5.86	0
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7.4	1.61	-16.85	-6	7.61	0
7.5	1.23	-17.24	-6	7.23	0
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8.8	0.19	-18.27	-6	6.19	0
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9.1	-2.78	-21.24	-6	3.22	0

9.2	-4.19	-22.65	-6	1.81	0
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22.3	-17.06	-35.52	-14	-3.06	0
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22.5	-18.58	-37.04	-14	-4.58	0
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22.9	-18.72	-37.19	-14	-4.72	0
23.0	-18.25	-36.71	-14	-4.25	0
23.1	-17.70	-36.16	-14	-3.70	0
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23.8	-15.41	-33.87	-14	-1.41	0
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25.0	-19.11	-37.57	-14	-5.11	0
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25.2	-18.93	-37.40	-14	-4.93	0
25.3	-19.07	-37.53	-14	-5.07	0
25.4	-19.37	-37.83	-14	-5.37	0
25.5	-19.84	-38.30	-14	-5.84	0
25.6	-20.47	-38.94	-14	-6.47	0
25.7	-21.25	-39.71	-14	-7.25	0
25.8	-22.15	-40.61	-14	-8.15	0
25.9	-23.12	-41.58	-14	-9.12	0
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26.1	-25.14	-43.60	-14	-11.14	0
26.2	-26.13	-44.59	-14	-12.13	0
26.3	-27.12	-45.59	-14	-13.12	0
26.4	-28.12	-46.58	-14	-14.12	0
26.5	-29.04	-47.50	-14	-15.04	0
26.6	-29.61	-48.07	-14	-15.61	0
26.7	-29.44	-47.90	-14	-15.44	0
26.8	-28.38	-46.85	-14	-14.38	0
26.9	-26.83	-45.29	-14	-12.83	0
27.0	-25.20	-43.66	-14	-11.20	0
27.1	-23.73	-42.19	-14	-9.73	0
27.2	-22.50	-40.96	-14	-8.50	0
27.3	-21.54	-40.00	-14	-7.54	0
27.4	-20.84	-39.31	-14	-6.84	0
27.5	-20.40	-38.86	-14	-6.40	0
27.6	-20.20	-38.66	-14	-6.20	0
27.7	-20.25	-38.71	-14	-6.25	0
27.8	-20.55	-39.01	-14	-6.55	0
27.9	-21.11	-39.57	-14	-7.11	0
28.0	-21.93	-40.39	-14	-7.93	0
28.1	-23.01	-41.48	-14	-9.01	0
28.2	-24.33	-42.79	-14	-10.33	0
28.3	-25.75	-44.21	-14	-11.75	0
28.4	-26.92	-45.39	-14	-12.92	0
28.5	-27.37	-45.83	-14	-13.37	0
28.6	-26.89	-45.35	-14	-12.89	0
28.7	-25.90	-44.36	-14	-11.90	0
28.8	-24.84	-43.31	-14	-10.84	0
28.9	-23.96	-42.43	-14	-9.96	0
29.0	-23.33	-41.80	-14	-9.33	0
29.1	-22.97	-41.43	-14	-8.97	0

29.2	-22.87	-41.33	-14	-8.87	0
29.3	-23.03	-41.49	-14	-9.03	0
29.4	-23.43	-41.89	-14	-9.43	0
29.5	-24.09	-42.55	-14	-10.09	0
29.6	-25.01	-43.48	-14	-11.01	0
29.7	-26.20	-44.67	-14	-12.20	0
29.8	-27.65	-46.11	-14	-13.65	0
29.9	-29.26	-47.72	-14	-15.26	0
30.0	-30.70	-49.16	-14	-16.70	0
30.1	-31.31	-49.77	-14	-17.31	0
30.2	-30.65	-49.12	-14	-16.65	0
30.3	-29.18	-47.64	-14	-15.18	0
30.4	-27.52	-45.98	-14	-13.52	0
30.5	-25.98	-44.45	-14	-11.98	0
30.6	-24.65	-43.11	-14	-10.65	0
30.7	-23.51	-41.97	-14	-9.51	0
30.8	-22.56	-41.02	-14	-8.56	0
30.9	-21.77	-40.23	-14	-7.77	0
31.0	-21.14	-39.60	-14	-7.14	0
31.1	-20.64	-39.11	-14	-6.64	0
31.2	-20.29	-38.75	-14	-6.29	0
31.3	-20.06	-38.52	-14	-6.06	0
31.4	-19.95	-38.41	-14	-5.95	0
31.5	-19.95	-38.41	-14	-5.95	0
31.6	-20.03	-38.50	-14	-6.03	0
31.7	-20.19	-38.65	-14	-6.19	0
31.8	-20.36	-38.83	-14	-6.36	0
31.9	-20.52	-38.98	-14	-6.52	0
32.0	-20.59	-39.06	-14	-6.59	0
32.1	-20.54	-39.00	-14	-6.54	0
32.2	-20.34	-38.80	-14	-6.34	0
32.3	-19.99	-38.45	-14	-5.99	0
32.4	-19.53	-38.00	-14	-5.53	0
32.5	-19.02	-37.49	-14	-5.02	0
32.6	-18.51	-36.97	-14	-4.51	0
32.7	-18.02	-36.48	-14	-4.02	0
32.8	-17.58	-36.05	-14	-3.58	0
32.9	-17.22	-35.68	-14	-3.22	0
33.0	-16.92	-35.38	-14	-2.92	0
33.1	-16.70	-35.16	-14	-2.70	0
33.2	-16.54	-35.01	-14	-2.54	0
33.3	-16.45	-34.91	-14	-2.45	0
33.4	-16.41	-34.87	-14	-2.41	0
33.5	-16.42	-34.88	-14	-2.42	0
33.6	-16.46	-34.92	-14	-2.46	0
33.7	-16.52	-34.98	-14	-2.52	0
33.8	-16.60	-35.06	-14	-2.60	0
33.9	-16.67	-35.13	-14	-2.67	0
34.0	-16.72	-35.18	-14	-2.72	0
34.1	-16.74	-35.21	-14	-2.74	0

34.2	-16.71	-35.18	-14	-2.71	0
34.3	-16.62	-35.08	-14	-2.62	0
34.4	-16.45	-34.91	-14	-2.45	0
34.5	-16.19	-34.65	-14	-2.19	0
34.6	-15.86	-34.32	-14	-1.86	0
34.7	-15.45	-33.92	-14	-1.45	0
34.8	-15.00	-33.46	-14	-1.00	0
34.9	-14.51	-32.97	-14	-0.51	0
35.0	-14.01	-32.47	-14	-0.01	0
35.1	-13.52	-31.98	-14	0.48	0
35.2	-13.05	-31.52	-14	0.95	0
35.3	-12.62	-31.09	-14	1.38	0
35.4	-12.24	-30.70	-14	1.76	0
35.5	-11.91	-30.37	-14	2.09	0
35.6	-11.63	-30.09	-14	2.37	0
35.7	-11.41	-29.88	-14	2.59	0
35.8	-11.25	-29.72	-14	2.75	0
35.9	-11.15	-29.61	-14	2.85	0
36.0	-11.10	-29.56	-14	2.90	0
36.1	-11.09	-29.55	-14	2.91	0
36.2	-11.13	-29.59	-14	2.87	0
36.3	-11.19	-29.66	-14	2.81	0
36.4	-11.28	-29.74	-14	2.72	0
36.5	-11.38	-29.84	-14	2.62	0
36.6	-11.48	-29.94	-14	2.52	0
36.7	-11.56	-30.03	-14	2.44	0
36.8	-11.63	-30.09	-14	2.37	0
36.9	-11.68	-30.14	-14	2.32	0
37.0	-11.70	-30.16	-14	2.30	0
37.1	-11.70	-30.16	-14	2.30	0
37.2	-11.68	-30.15	-14	2.32	0
37.3	-11.67	-30.13	-14	2.33	0
37.4	-11.66	-30.12	-14	2.34	0
37.5	-11.67	-30.13	-14	2.33	0
37.6	-11.70	-30.16	-14	2.30	0
37.7	-11.77	-30.23	-14	2.23	0
37.8	-11.89	-30.35	-14	2.11	0
37.9	-12.05	-30.51	-14	1.95	0
38.0	-12.26	-30.72	-14	1.74	0
38.1	-12.53	-30.99	-14	1.47	0
38.2	-12.85	-31.31	-14	1.15	0
38.3	-13.23	-31.69	-14	0.77	0
38.4	-13.65	-32.12	-14	0.35	0
38.5	-14.13	-32.59	-14	-0.13	0
38.6	-14.64	-33.10	-14	-0.64	0
38.7	-15.18	-33.64	-14	-1.18	0
38.8	-15.74	-34.20	-14	-1.74	0
38.9	-16.31	-34.77	-14	-2.31	0
39.0	-16.86	-35.32	-14	-2.86	0
39.1	-17.38	-35.84	-14	-3.38	0

39.2	-17.85	-36.31	-14	-3.85	0
39.3	-18.25	-36.71	-14	-4.25	0
39.4	-18.57	-37.03	-14	-4.57	0
39.5	-18.79	-37.26	-14	-4.79	0
39.6	-18.93	-37.39	-14	-4.93	0
39.7	-18.98	-37.44	-14	-4.98	0
39.8	-18.95	-37.41	-14	-4.95	0
39.9	-18.86	-37.32	-14	-4.86	0
40.0	-18.73	-37.19	-14	-4.73	0
40.1	-18.57	-37.03	-14	-4.57	0
40.2	-18.40	-36.86	-14	-4.40	0
40.3	-18.23	-36.69	-14	-4.23	0
40.4	-18.09	-36.55	-14	-4.09	0
40.5	-17.97	-36.43	-14	-3.97	0
40.6	-17.90	-36.36	-14	-3.90	0
40.7	-17.87	-36.33	-14	-3.87	0
40.8	-17.89	-36.35	-14	-3.89	0
40.9	-17.97	-36.43	-14	-3.97	0
41.0	-18.11	-36.57	-14	-4.11	0
41.1	-18.31	-36.77	-14	-4.31	0
41.2	-18.58	-37.04	-14	-4.58	0
41.3	-18.90	-37.36	-14	-4.90	0
41.4	-19.28	-37.74	-14	-5.28	0
41.5	-19.71	-38.17	-14	-5.71	0
41.6	-20.18	-38.64	-14	-6.18	0
41.7	-20.67	-39.14	-14	-6.67	0
41.8	-21.18	-39.64	-14	-7.18	0
41.9	-21.68	-40.14	-14	-7.68	0
42.0	-22.15	-40.61	-14	-8.15	0
42.1	-22.56	-41.02	-14	-8.56	0
42.2	-22.89	-41.35	-14	-8.89	0
42.3	-23.13	-41.59	-14	-9.13	0
42.4	-23.26	-41.72	-14	-9.26	0
42.5	-23.29	-41.75	-14	-9.29	0
42.6	-23.22	-41.68	-14	-9.22	0
42.7	-23.06	-41.53	-14	-9.06	0
42.8	-22.83	-41.30	-14	-8.83	0
42.9	-22.55	-41.01	-14	-8.55	0
43.0	-22.21	-40.67	-14	-8.21	0
43.1	-21.84	-40.31	-14	-7.84	0
43.2	-21.46	-39.92	-14	-7.46	0
43.3	-21.06	-39.53	-14	-7.06	0
43.4	-20.68	-39.14	-14	-6.68	0
43.5	-20.30	-38.76	-14	-6.30	0
43.6	-19.95	-38.41	-14	-5.95	0
43.7	-19.63	-38.09	-14	-5.63	0
43.8	-19.35	-37.81	-14	-5.35	0
43.9	-19.11	-37.57	-14	-5.11	0
44.0	-18.91	-37.38	-14	-4.91	0
44.1	-18.77	-37.23	-14	-4.77	0

44.2	-18.66	-37.12	-14	-4.66	0
44.3	-18.60	-37.06	-14	-4.60	0
44.4	-18.58	-37.04	-14	-4.58	0
44.5	-18.58	-37.04	-14	-4.58	0
44.6	-18.61	-37.07	-14	-4.61	0
44.7	-18.64	-37.10	-14	-4.64	0
44.8	-18.67	-37.13	-14	-4.67	0
44.9	-18.68	-37.15	-14	-4.68	0
45.0	-18.66	-37.13	-14	-4.66	0
45.1	-18.60	-37.06	-14	-4.60	0
45.2	-18.49	-36.95	-14	-4.49	0
45.3	-18.32	-36.79	-14	-4.32	0
45.4	-18.12	-36.58	-14	-4.12	0
45.5	-17.88	-36.35	-14	-3.88	0
45.6	-17.63	-36.09	-14	-3.63	0
45.7	-17.38	-35.84	-14	-3.38	0
45.8	-17.14	-35.60	-14	-3.14	0
45.9	-16.92	-35.38	-14	-2.92	0
46.0	-16.74	-35.20	-14	-2.74	0
46.1	-16.61	-35.07	-14	-2.61	0
46.2	-16.52	-34.98	-14	-2.52	0
46.3	-16.49	-34.95	-14	-2.49	0
46.4	-16.52	-34.98	-14	-2.52	0
46.5	-16.61	-35.07	-14	-2.61	0
46.6	-16.76	-35.23	-14	-2.76	0
46.7	-16.98	-35.44	-14	-2.98	0
46.8	-17.25	-35.71	-14	-3.25	0
46.9	-17.58	-36.05	-14	-3.58	0
47.0	-17.96	-36.43	-14	-3.96	0
47.1	-18.39	-36.85	-14	-4.39	0
47.2	-18.84	-37.31	-14	-4.84	0
47.3	-19.32	-37.78	-14	-5.32	0
47.4	-19.79	-38.25	-14	-5.79	0
47.5	-20.24	-38.70	-14	-6.24	0
47.6	-20.65	-39.11	-14	-6.65	0
47.7	-21.00	-39.46	-14	-7.00	0
47.8	-21.29	-39.75	-14	-7.29	0
47.9	-21.51	-39.98	-14	-7.51	0
48.0	-21.69	-40.15	-14	-7.69	0
48.1	-21.83	-40.29	-14	-7.83	0
48.2	-21.95	-40.41	-14	-7.95	0
48.3	-22.08	-40.54	-14	-8.08	0
48.4	-22.24	-40.70	-14	-8.24	0
48.5	-22.43	-40.89	-14	-8.43	0
48.6	-22.67	-41.13	-14	-8.67	0
48.7	-22.95	-41.41	-14	-8.95	0
48.8	-23.28	-41.75	-14	-9.28	0
48.9	-23.65	-42.12	-14	-9.65	0
49.0	-24.05	-42.51	-14	-10.05	0
49.1	-24.45	-42.91	-14	-10.45	0

49.2	-24.83	-43.29	-14	-10.83	0
49.3	-25.16	-43.62	-14	-11.16	0
49.4	-25.41	-43.88	-14	-11.41	0
49.5	-25.58	-44.05	-14	-11.58	0
49.6	-25.66	-44.12	-14	-11.66	0
49.7	-25.65	-44.12	-14	-11.65	0
49.8	-25.58	-44.05	-14	-11.58	0
49.9	-25.47	-43.93	-14	-11.47	0
50.0	-25.33	-43.79	-14	-11.33	0
50.1	-25.18	-43.64	-14	-11.18	0
50.2	-25.02	-43.48	-14	-11.02	0
50.3	-24.84	-43.30	-14	-10.84	0
50.4	-24.64	-43.10	-14	-10.64	0
50.5	-24.40	-42.86	-14	-10.40	0
50.6	-24.11	-42.57	-14	-10.11	0
50.7	-23.76	-42.22	-14	-9.76	0
50.8	-23.35	-41.81	-14	-9.35	0
50.9	-22.88	-41.35	-14	-8.88	0
51.0	-22.38	-40.84	-14	-8.38	0
51.1	-21.85	-40.32	-14	-7.85	0
51.2	-21.33	-39.79	-14	-7.33	0
51.3	-20.81	-39.27	-14	-6.81	0
51.4	-20.32	-38.78	-14	-6.32	0
51.5	-19.87	-38.33	-14	-5.87	0
51.6	-19.46	-37.92	-14	-5.46	0
51.7	-19.10	-37.57	-14	-5.10	0
51.8	-18.80	-37.26	-14	-4.80	0
51.9	-18.56	-37.02	-14	-4.56	0
52.0	-18.36	-36.83	-14	-4.36	0
52.1	-18.23	-36.69	-14	-4.23	0
52.2	-18.15	-36.61	-14	-4.15	0
52.3	-18.12	-36.58	-14	-4.12	0
52.4	-18.14	-36.60	-14	-4.14	0
52.5	-18.20	-36.67	-14	-4.20	0
52.6	-18.31	-36.77	-14	-4.31	0
52.7	-18.46	-36.92	-14	-4.46	0
52.8	-18.63	-37.09	-14	-4.63	0
52.9	-18.83	-37.29	-14	-4.83	0
53.0	-19.05	-37.51	-14	-5.05	0
53.1	-19.28	-37.74	-14	-5.28	0
53.2	-19.50	-37.96	-14	-5.50	0
53.3	-19.71	-38.17	-14	-5.71	0
53.4	-19.90	-38.36	-14	-5.90	0
53.5	-20.06	-38.52	-14	-6.06	0
53.6	-20.18	-38.64	-14	-6.18	0
53.7	-20.24	-38.71	-14	-6.24	0
53.8	-20.26	-38.72	-14	-6.26	0
53.9	-20.21	-38.68	-14	-6.21	0
54.0	-20.11	-38.58	-14	-6.11	0
54.1	-19.96	-38.42	-14	-5.96	0

54.2	-19.75	-38.21	-14	-5.75	0
54.3	-19.50	-37.97	-14	-5.50	0
54.4	-19.22	-37.68	-14	-5.22	0
54.5	-18.90	-37.37	-14	-4.90	0
54.6	-18.57	-37.03	-14	-4.57	0
54.7	-18.23	-36.69	-14	-4.23	0
54.8	-17.88	-36.34	-14	-3.88	0
54.9	-17.53	-35.99	-14	-3.53	0
55.0	-17.19	-35.65	-14	-3.19	0
55.1	-16.86	-35.32	-14	-2.86	0
55.2	-16.55	-35.01	-14	-2.55	0
55.3	-16.26	-34.72	-14	-2.26	0
55.4	-15.99	-34.45	-14	-1.99	0
55.5	-15.74	-34.20	-14	-1.74	0
55.6	-15.52	-33.98	-14	-1.52	0
55.7	-15.32	-33.79	-14	-1.32	0
55.8	-15.15	-33.62	-14	-1.15	0
55.9	-15.01	-33.47	-14	-1.01	0
56.0	-14.89	-33.35	-14	-0.89	0
56.1	-14.79	-33.25	-14	-0.79	0
56.2	-14.71	-33.17	-14	-0.71	0
56.3	-14.65	-33.11	-14	-0.65	0
56.4	-14.61	-33.07	-14	-0.61	0
56.5	-14.57	-33.03	-14	-0.57	0
56.6	-14.55	-33.01	-14	-0.55	0
56.7	-14.53	-32.99	-14	-0.53	0
56.8	-14.52	-32.98	-14	-0.52	0
56.9	-14.50	-32.96	-14	-0.50	0
57.0	-14.48	-32.95	-14	-0.48	0
57.1	-14.46	-32.92	-14	-0.46	0
57.2	-14.43	-32.89	-14	-0.43	0
57.3	-14.39	-32.85	-14	-0.39	0
57.4	-14.34	-32.81	-14	-0.34	0
57.5	-14.29	-32.75	-14	-0.29	0
57.6	-14.22	-32.68	-14	-0.22	0
57.7	-14.15	-32.61	-14	-0.15	0
57.8	-14.07	-32.53	-14	-0.07	0
57.9	-13.99	-32.45	-14	0.01	0
58.0	-13.90	-32.36	-14	0.10	0
58.1	-13.82	-32.28	-14	0.18	0
58.2	-13.73	-32.19	-14	0.27	0
58.3	-13.65	-32.11	-14	0.35	0
58.4	-13.57	-32.03	-14	0.43	0
58.5	-13.50	-31.96	-14	0.50	0
58.6	-13.43	-31.89	-14	0.57	0
58.7	-13.37	-31.83	-14	0.63	0
58.8	-13.31	-31.78	-14	0.69	0
58.9	-13.27	-31.73	-14	0.73	0
59.0	-13.23	-31.69	-14	0.77	0
59.1	-13.20	-31.66	-14	0.80	0

59.2	-13.17	-31.64	-14	0.83	0
59.3	-13.16	-31.62	-14	0.84	0
59.4	-13.15	-31.61	-14	0.85	0
59.5	-13.15	-31.61	-14	0.85	0
59.6	-13.16	-31.62	-14	0.84	0
59.7	-13.17	-31.63	-14	0.83	0
59.8	-13.19	-31.65	-14	0.81	0
59.9	-13.21	-31.67	-14	0.79	0
60.0	-13.24	-31.70	-14	0.76	0
60.1	-13.27	-31.73	-14	0.73	0
60.2	-13.30	-31.76	-14	0.70	0
60.3	-13.34	-31.80	-14	0.66	0
60.4	-13.37	-31.83	-14	0.63	0
60.5	-13.40	-31.86	-14	0.60	0
60.6	-13.43	-31.89	-14	0.57	0
60.7	-13.46	-31.92	-14	0.54	0
60.8	-13.48	-31.95	-14	0.52	0
60.9	-13.50	-31.97	-14	0.50	0
61.0	-13.52	-31.98	-14	0.48	0
61.1	-13.53	-31.99	-14	0.47	0
61.2	-13.53	-31.99	-14	0.47	0
61.3	-13.53	-31.99	-14	0.47	0
61.4	-13.53	-31.99	-14	0.47	0
61.5	-13.52	-31.99	-14	0.48	0
61.6	-13.52	-31.98	-14	0.48	0
61.7	-13.51	-31.97	-14	0.49	0
61.8	-13.51	-31.97	-14	0.49	0
61.9	-13.51	-31.97	-14	0.49	0
62.0	-13.51	-31.97	-14	0.49	0
62.1	-13.52	-31.98	-14	0.48	0
62.2	-13.53	-32.00	-14	0.47	0
62.3	-13.56	-32.02	-14	0.44	0
62.4	-13.59	-32.05	-14	0.41	0
62.5	-13.63	-32.09	-14	0.37	0
62.6	-13.68	-32.14	-14	0.32	0
62.7	-13.74	-32.20	-14	0.26	0
62.8	-13.81	-32.27	-14	0.19	0
62.9	-13.89	-32.35	-14	0.11	0
63.0	-13.98	-32.44	-14	0.02	0
63.1	-14.08	-32.54	-14	-0.08	0
63.2	-14.19	-32.65	-14	-0.19	0
63.3	-14.30	-32.76	-14	-0.30	0
63.4	-14.42	-32.88	-14	-0.42	0
63.5	-14.55	-33.01	-14	-0.55	0
63.6	-14.68	-33.14	-14	-0.68	0
63.7	-14.81	-33.27	-14	-0.81	0
63.8	-14.95	-33.41	-14	-0.95	0
63.9	-15.08	-33.54	-14	-1.08	0
64.0	-15.22	-33.68	-14	-1.22	0
64.1	-15.35	-33.82	-14	-1.35	0

64.2	-15.49	-33.95	-14	-1.49	0
64.3	-15.62	-34.08	-14	-1.62	0
64.4	-15.74	-34.21	-14	-1.74	0
64.5	-15.87	-34.33	-14	-1.87	0
64.6	-15.98	-34.44	-14	-1.98	0
64.7	-16.09	-34.55	-14	-2.09	0
64.8	-16.20	-34.66	-14	-2.20	0
64.9	-16.29	-34.75	-14	-2.29	0
65.0	-16.38	-34.84	-14	-2.38	0
65.1	-16.46	-34.93	-14	-2.46	0
65.2	-16.54	-35.00	-14	-2.54	0
65.3	-16.60	-35.07	-14	-2.60	0
65.4	-16.66	-35.13	-14	-2.66	0
65.5	-16.72	-35.18	-14	-2.72	0
65.6	-16.77	-35.23	-14	-2.77	0
65.7	-16.81	-35.27	-14	-2.81	0
65.8	-16.85	-35.31	-14	-2.85	0
65.9	-16.89	-35.35	-14	-2.89	0
66.0	-16.92	-35.38	-14	-2.92	0
66.1	-16.96	-35.42	-14	-2.96	0
66.2	-17.00	-35.46	-14	-3.00	0
66.3	-17.04	-35.50	-14	-3.04	0
66.4	-17.09	-35.55	-14	-3.09	0
66.5	-17.14	-35.60	-14	-3.14	0
66.6	-17.20	-35.67	-14	-3.20	0
66.7	-17.28	-35.74	-14	-3.28	0
66.8	-17.36	-35.82	-14	-3.36	0
66.9	-17.45	-35.92	-14	-3.45	0
67.0	-17.56	-36.02	-14	-3.56	0
67.1	-17.68	-36.14	-14	-3.68	0
67.2	-17.81	-36.28	-14	-3.81	0
67.3	-17.96	-36.42	-14	-3.96	0
67.4	-18.12	-36.58	-14	-4.12	0
67.5	-18.29	-36.75	-14	-4.29	0
67.6	-18.48	-36.94	-14	-4.48	0
67.7	-18.67	-37.13	-14	-4.67	0
67.8	-18.88	-37.34	-14	-4.88	0
67.9	-19.09	-37.55	-14	-5.09	0
68.0	-19.31	-37.77	-14	-5.31	0
68.1	-19.54	-38.00	-14	-5.54	0
68.2	-19.76	-38.22	-14	-5.76	0
68.3	-19.98	-38.45	-14	-5.98	0
68.4	-20.20	-38.66	-14	-6.20	0
68.5	-20.41	-38.87	-14	-6.41	0
68.6	-20.61	-39.07	-14	-6.61	0
68.7	-20.79	-39.25	-14	-6.79	0
68.8	-20.95	-39.41	-14	-6.95	0
68.9	-21.09	-39.55	-14	-7.09	0
69.0	-21.21	-39.67	-14	-7.21	0
69.1	-21.30	-39.76	-14	-7.30	0

69.2	-21.37	-39.83	-14	-7.37	0
69.3	-21.41	-39.88	-14	-7.41	0
69.4	-21.43	-39.89	-14	-7.43	0
69.5	-21.43	-39.89	-14	-7.43	0
69.6	-21.40	-39.86	-14	-7.40	0
69.7	-21.35	-39.82	-14	-7.35	0
69.8	-21.29	-39.75	-14	-7.29	0
69.9	-21.21	-39.67	-14	-7.21	0
70.0	-21.11	-39.57	-14	-7.11	0
70.1	-21.00	-39.47	-14	-7.00	0
70.2	-20.88	-39.34	-14	-6.88	0
70.3	-20.75	-39.21	-14	-6.75	0
70.4	-20.61	-39.07	-14	-6.61	0
70.5	-20.46	-38.92	-14	-6.46	0
70.6	-20.30	-38.76	-14	-6.30	0
70.7	-20.13	-38.59	-14	-6.13	0
70.8	-19.96	-38.42	-14	-5.96	0
70.9	-19.78	-38.24	-14	-5.78	0
71.0	-19.59	-38.05	-14	-5.59	0
71.1	-19.39	-37.85	-14	-5.39	0
71.2	-19.19	-37.65	-14	-5.19	0
71.3	-18.98	-37.44	-14	-4.98	0
71.4	-18.77	-37.23	-14	-4.77	0
71.5	-18.55	-37.01	-14	-4.55	0
71.6	-18.33	-36.79	-14	-4.33	0
71.7	-18.10	-36.56	-14	-4.10	0
71.8	-17.87	-36.34	-14	-3.87	0
71.9	-17.65	-36.11	-14	-3.65	0
72.0	-17.42	-35.88	-14	-3.42	0
72.1	-17.19	-35.65	-14	-3.19	0
72.2	-16.97	-35.43	-14	-2.97	0
72.3	-16.74	-35.20	-14	-2.74	0
72.4	-16.52	-34.99	-14	-2.52	0
72.5	-16.31	-34.77	-14	-2.31	0
72.6	-16.10	-34.56	-14	-2.10	0
72.7	-15.90	-34.36	-14	-1.90	0
72.8	-15.71	-34.17	-14	-1.71	0
72.9	-15.52	-33.98	-14	-1.52	0
73.0	-15.34	-33.81	-14	-1.34	0
73.1	-15.18	-33.64	-14	-1.18	0
73.2	-15.02	-33.48	-14	-1.02	0
73.3	-14.87	-33.33	-14	-0.87	0
73.4	-14.74	-33.20	-14	-0.74	0
73.5	-14.61	-33.07	-14	-0.61	0
73.6	-14.50	-32.96	-14	-0.50	0
73.7	-14.40	-32.86	-14	-0.40	0
73.8	-14.31	-32.77	-14	-0.31	0
73.9	-14.24	-32.70	-14	-0.24	0
74.0	-14.17	-32.63	-14	-0.17	0
74.1	-14.12	-32.58	-14	-0.12	0

74.2	-14.08	-32.54	-14	-0.08	0
74.3	-14.05	-32.52	-14	-0.05	0
74.4	-14.04	-32.50	-14	-0.04	0
74.5	-14.04	-32.50	-14	-0.04	0
74.6	-14.05	-32.51	-14	-0.05	0
74.7	-14.07	-32.53	-14	-0.07	0
74.8	-14.10	-32.56	-14	-0.10	0
74.9	-14.14	-32.60	-14	-0.14	0
75.0	-14.19	-32.65	-14	-0.19	0
75.1	-14.25	-32.72	-14	-0.25	0
75.2	-14.32	-32.79	-14	-0.32	0
75.3	-14.40	-32.87	-14	-0.40	0
75.4	-14.49	-32.95	-14	-0.49	0
75.5	-14.59	-33.05	-14	-0.59	0
75.6	-14.69	-33.15	-14	-0.69	0
75.7	-14.80	-33.26	-14	-0.80	0
75.8	-14.91	-33.37	-14	-0.91	0
75.9	-15.03	-33.49	-14	-1.03	0
76.0	-15.15	-33.61	-14	-1.15	0
76.1	-15.27	-33.73	-14	-1.27	0
76.2	-15.39	-33.86	-14	-1.39	0
76.3	-15.52	-33.98	-14	-1.52	0
76.4	-15.64	-34.11	-14	-1.64	0
76.5	-15.77	-34.23	-14	-1.77	0
76.6	-15.89	-34.35	-14	-1.89	0
76.7	-16.01	-34.47	-14	-2.01	0
76.8	-16.13	-34.59	-14	-2.13	0
76.9	-16.24	-34.70	-14	-2.24	0
77.0	-16.35	-34.81	-14	-2.35	0
77.1	-16.46	-34.92	-14	-2.46	0
77.2	-16.55	-35.02	-14	-2.55	0
77.3	-16.65	-35.11	-14	-2.65	0
77.4	-16.74	-35.20	-14	-2.74	0
77.5	-16.82	-35.28	-14	-2.82	0
77.6	-16.89	-35.36	-14	-2.89	0
77.7	-16.96	-35.43	-14	-2.96	0
77.8	-17.03	-35.49	-14	-3.03	0
77.9	-17.09	-35.55	-14	-3.09	0
78.0	-17.15	-35.61	-14	-3.15	0
78.1	-17.20	-35.66	-14	-3.20	0
78.2	-17.25	-35.71	-14	-3.25	0
78.3	-17.29	-35.76	-14	-3.29	0
78.4	-17.34	-35.80	-14	-3.34	0
78.5	-17.38	-35.84	-14	-3.38	0
78.6	-17.42	-35.88	-14	-3.42	0
78.7	-17.46	-35.93	-14	-3.46	0
78.8	-17.51	-35.97	-14	-3.51	0
78.9	-17.55	-36.01	-14	-3.55	0
79.0	-17.60	-36.06	-14	-3.60	0
79.1	-17.65	-36.11	-14	-3.65	0

79.2	-17.70	-36.16	-14	-3.70	0
79.3	-17.76	-36.22	-14	-3.76	0
79.4	-17.82	-36.28	-14	-3.82	0
79.5	-17.89	-36.35	-14	-3.89	0
79.6	-17.96	-36.43	-14	-3.96	0
79.7	-18.05	-36.51	-14	-4.05	0
79.8	-18.13	-36.59	-14	-4.13	0
79.9	-18.23	-36.69	-14	-4.23	0
80.0	-18.33	-36.79	-14	-4.33	0
80.1	-18.44	-36.90	-14	-4.44	0
80.2	-18.56	-37.02	-14	-4.56	0
80.3	-18.68	-37.14	-14	-4.68	0
80.4	-18.81	-37.27	-14	-4.81	0
80.5	-18.95	-37.41	-14	-4.95	0
80.6	-19.09	-37.56	-14	-5.09	0
80.7	-19.25	-37.71	-14	-5.25	0
80.8	-19.40	-37.86	-14	-5.40	0
80.9	-19.56	-38.03	-14	-5.56	0
81.0	-19.73	-38.19	-14	-5.73	0
81.1	-19.90	-38.36	-14	-5.90	0
81.2	-20.07	-38.53	-14	-6.07	0
81.3	-20.24	-38.70	-14	-6.24	0
81.4	-20.41	-38.87	-14	-6.41	0
81.5	-20.58	-39.04	-14	-6.58	0
81.6	-20.75	-39.21	-14	-6.75	0
81.7	-20.91	-39.37	-14	-6.91	0
81.8	-21.07	-39.53	-14	-7.07	0
81.9	-21.22	-39.68	-14	-7.22	0
82.0	-21.36	-39.82	-14	-7.36	0
82.1	-21.49	-39.96	-14	-7.49	0
82.2	-21.62	-40.08	-14	-7.62	0
82.3	-21.73	-40.20	-14	-7.73	0
82.4	-21.84	-40.30	-14	-7.84	0
82.5	-21.94	-40.40	-14	-7.94	0
82.6	-22.02	-40.48	-14	-8.02	0
82.7	-22.10	-40.56	-14	-8.10	0
82.8	-22.17	-40.63	-14	-8.17	0
82.9	-22.23	-40.70	-14	-8.23	0
83.0	-22.29	-40.75	-14	-8.29	0
83.1	-22.35	-40.81	-14	-8.35	0
83.2	-22.40	-40.86	-14	-8.40	0
83.3	-22.45	-40.91	-14	-8.45	0
83.4	-22.50	-40.96	-14	-8.50	0
83.5	-22.55	-41.01	-14	-8.55	0
83.6	-22.60	-41.06	-14	-8.60	0
83.7	-22.66	-41.12	-14	-8.66	0
83.8	-22.72	-41.18	-14	-8.72	0
83.9	-22.79	-41.25	-14	-8.79	0
84.0	-22.86	-41.32	-14	-8.86	0
84.1	-22.94	-41.41	-14	-8.94	0

84.2	-23.04	-41.50	-14	-9.04	0
84.3	-23.14	-41.60	-14	-9.14	0
84.4	-23.25	-41.71	-14	-9.25	0
84.5	-23.37	-41.83	-14	-9.37	0
84.6	-23.51	-41.97	-14	-9.51	0
84.7	-23.65	-42.11	-14	-9.65	0
84.8	-23.81	-42.27	-14	-9.81	0
84.9	-23.98	-42.44	-14	-9.98	0
85.0	-24.16	-42.62	-14	-10.16	0
85.1	-24.36	-42.82	-14	-10.36	0
85.2	-24.56	-43.02	-14	-10.56	0
85.3	-24.78	-43.24	-14	-10.78	0
85.4	-25.01	-43.47	-14	-11.01	0
85.5	-25.26	-43.72	-14	-11.26	0
85.6	-25.51	-43.97	-14	-11.51	0
85.7	-25.77	-44.23	-14	-11.77	0
85.8	-26.04	-44.50	-14	-12.04	0
85.9	-26.32	-44.78	-14	-12.32	0
86.0	-26.60	-45.06	-14	-12.60	0
86.1	-26.88	-45.34	-14	-12.88	0
86.2	-27.16	-45.62	-14	-13.16	0
86.3	-27.43	-45.89	-14	-13.43	0
86.4	-27.68	-46.14	-14	-13.68	0
86.5	-27.92	-46.38	-14	-13.92	0
86.6	-28.13	-46.59	-14	-14.13	0
86.7	-28.31	-46.78	-14	-14.31	0
86.8	-28.46	-46.92	-14	-14.46	0
86.9	-28.56	-47.02	-14	-14.56	0
87.0	-28.62	-47.08	-14	-14.62	0
87.1	-28.64	-47.10	-14	-14.64	0
87.2	-28.61	-47.07	-14	-14.61	0
87.3	-28.53	-47.00	-14	-14.53	0
87.4	-28.42	-46.89	-14	-14.42	0
87.5	-28.28	-46.74	-14	-14.28	0
87.6	-28.12	-46.58	-14	-14.12	0
87.7	-27.93	-46.39	-14	-13.93	0
87.8	-27.73	-46.19	-14	-13.73	0
87.9	-27.53	-45.99	-14	-13.53	0
88.0	-27.32	-45.78	-14	-13.32	0
88.1	-27.12	-45.58	-14	-13.12	0
88.2	-26.92	-45.38	-14	-12.92	0
88.3	-26.74	-45.20	-14	-12.74	0
88.4	-26.57	-45.03	-14	-12.57	0
88.5	-26.41	-44.87	-14	-12.41	0
88.6	-26.28	-44.74	-14	-12.28	0
88.7	-26.16	-44.62	-14	-12.16	0
88.8	-26.06	-44.53	-14	-12.06	0
88.9	-25.99	-44.45	-14	-11.99	0
89.0	-25.94	-44.40	-14	-11.94	0
89.1	-25.91	-44.37	-14	-11.91	0

89.2	-25.91	-44.37	-14	-11.91	0
89.3	-25.93	-44.39	-14	-11.93	0
89.4	-25.98	-44.44	-14	-11.98	0
89.5	-26.05	-44.51	-14	-12.05	0
89.6	-26.15	-44.61	-14	-12.15	0
89.7	-26.28	-44.74	-14	-12.28	0
89.8	-26.43	-44.89	-14	-12.43	0
89.9	-26.61	-45.07	-14	-12.61	0
90.0	-26.81	-45.28	-14	-12.81	0
90.1	-27.04	-45.51	-14	-13.04	0
90.2	-27.30	-45.76	-14	-13.30	0
90.3	-27.57	-46.04	-14	-13.57	0
90.4	-27.87	-46.33	-14	-13.87	0
90.5	-28.18	-46.64	-14	-14.18	0
90.6	-28.50	-46.96	-14	-14.50	0
90.7	-28.83	-47.29	-14	-14.83	0
90.8	-29.15	-47.61	-14	-15.15	0
90.9	-29.45	-47.91	-14	-15.45	0
91.0	-29.72	-48.19	-14	-15.72	0
91.1	-29.96	-48.42	-14	-15.96	0
91.2	-30.13	-48.60	-14	-16.13	0
91.3	-30.24	-48.71	-14	-16.24	0
91.4	-30.28	-48.74	-14	-16.28	0
91.5	-30.24	-48.70	-14	-16.24	0
91.6	-30.13	-48.59	-14	-16.13	0
91.7	-29.95	-48.41	-14	-15.95	0
91.8	-29.72	-48.19	-14	-15.72	0
91.9	-29.46	-47.92	-14	-15.46	0
92.0	-29.17	-47.63	-14	-15.17	0
92.1	-28.87	-47.33	-14	-14.87	0
92.2	-28.56	-47.02	-14	-14.56	0
92.3	-28.27	-46.73	-14	-14.27	0
92.4	-27.99	-46.45	-14	-13.99	0
92.5	-27.73	-46.19	-14	-13.73	0
92.6	-27.49	-45.96	-14	-13.49	0
92.7	-27.29	-45.75	-14	-13.29	0
92.8	-27.11	-45.57	-14	-13.11	0
92.9	-26.96	-45.43	-14	-12.96	0
93.0	-26.85	-45.31	-14	-12.85	0
93.1	-26.77	-45.23	-14	-12.77	0
93.2	-26.73	-45.19	-14	-12.73	0
93.3	-26.72	-45.18	-14	-12.72	0
93.4	-26.75	-45.21	-14	-12.75	0
93.5	-26.81	-45.27	-14	-12.81	0
93.6	-26.91	-45.37	-14	-12.91	0
93.7	-27.05	-45.51	-14	-13.05	0
93.8	-27.22	-45.68	-14	-13.22	0
93.9	-27.44	-45.90	-14	-13.44	0
94.0	-27.69	-46.15	-14	-13.69	0
94.1	-27.98	-46.44	-14	-13.98	0

94.2	-28.30	-46.76	-14	-14.30	0
94.3	-28.66	-47.12	-14	-14.66	0
94.4	-29.05	-47.51	-14	-15.05	0
94.5	-29.46	-47.92	-14	-15.46	0
94.6	-29.89	-48.35	-14	-15.89	0
94.7	-30.32	-48.79	-14	-16.32	0
94.8	-30.74	-49.20	-14	-16.74	0
94.9	-31.13	-49.59	-14	-17.13	0
95.0	-31.45	-49.91	-14	-17.45	0
95.1	-31.69	-50.15	-14	-17.69	0
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95.3	-31.83	-50.29	-14	-17.83	0
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95.6	-31.21	-49.67	-14	-17.21	0
95.7	-30.85	-49.31	-14	-16.85	0
95.8	-30.46	-48.92	-14	-16.46	0
95.9	-30.06	-48.52	-14	-16.06	0
96.0	-29.66	-48.13	-14	-15.66	0
96.1	-29.29	-47.75	-14	-15.29	0
96.2	-28.94	-47.40	-14	-14.94	0
96.3	-28.62	-47.09	-14	-14.62	0
96.4	-28.35	-46.81	-14	-14.35	0
96.5	-28.12	-46.58	-14	-14.12	0
96.6	-27.93	-46.39	-14	-13.93	0
96.7	-27.78	-46.24	-14	-13.78	0
96.8	-27.68	-46.14	-14	-13.68	0
96.9	-27.63	-46.09	-14	-13.63	0
97.0	-27.63	-46.09	-14	-13.63	0
97.1	-27.67	-46.13	-14	-13.67	0
97.2	-27.77	-46.23	-14	-13.77	0
97.3	-27.92	-46.38	-14	-13.92	0
97.4	-28.12	-46.58	-14	-14.12	0
97.5	-28.38	-46.84	-14	-14.38	0
97.6	-28.69	-47.15	-14	-14.69	0
97.7	-29.07	-47.53	-14	-15.07	0
97.8	-29.51	-47.97	-14	-15.51	0
97.9	-30.01	-48.48	-14	-16.01	0
98.0	-30.59	-49.05	-14	-16.59	0
98.1	-31.24	-49.70	-14	-17.24	0
98.2	-31.96	-50.42	-14	-17.96	0
98.3	-32.74	-51.20	-14	-18.74	0
98.4	-33.57	-52.03	-14	-19.57	0
98.5	-34.41	-52.88	-14	-20.41	0
98.6	-35.22	-53.68	-14	-21.22	0
98.7	-35.90	-54.36	-14	-21.90	0
98.8	-36.34	-54.80	-14	-22.34	0
98.9	-36.45	-54.91	-14	-22.45	0
99.0	-36.22	-54.68	-14	-22.22	0
99.1	-35.71	-54.18	-14	-21.71	0

99.2	-35.05	-53.51	-14	-21.05	0
99.3	-34.31	-52.77	-14	-20.31	0
99.4	-33.58	-52.04	-14	-19.58	0
99.5	-32.90	-51.36	-14	-18.90	0
99.6	-32.28	-50.74	-14	-18.28	0
99.7	-31.74	-50.20	-14	-17.74	0
99.8	-31.27	-49.73	-14	-17.27	0
99.9	-30.89	-49.35	-14	-16.89	0
100.0	-30.58	-49.05	-14	-16.58	0
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100.2	-30.21	-48.67	-14	-16.21	0
100.3	-30.13	-48.59	-14	-16.13	0
100.4	-30.13	-48.60	-14	-16.13	0
100.5	-30.22	-48.68	-14	-16.22	0
100.6	-30.38	-48.84	-14	-16.38	0
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100.8	-30.97	-49.44	-14	-16.97	0
100.9	-31.42	-49.88	-14	-17.42	0
101.0	-31.97	-50.43	-14	-17.97	0
101.1	-32.65	-51.11	-14	-18.65	0
101.2	-33.47	-51.94	-14	-19.47	0
101.3	-34.47	-52.94	-14	-20.47	0
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101.6	-39.00	-57.46	-14	-25.00	0
101.7	-41.23	-59.69	-14	-27.23	0
101.8	-43.72	-62.18	-14	-29.72	0
101.9	-45.38	-63.85	-14	-31.38	0
102.0	-44.46	-62.92	-14	-30.46	0
102.1	-41.99	-60.45	-14	-27.99	0
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103.2	-29.56	-48.02	-14	-15.56	0
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104.2	-30.38	-48.84	-14	-16.38	0
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104.5	-32.06	-50.52	-14	-18.06	0
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105.8	-30.40	-48.87	-14	-16.40	0
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106.0	-29.42	-47.88	-14	-15.42	0
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106.2	-28.74	-47.20	-14	-14.74	0
106.3	-28.51	-46.97	-14	-14.51	0
106.4	-28.36	-46.82	-14	-14.36	0
106.5	-28.28	-46.74	-14	-14.28	0
106.6	-28.28	-46.74	-14	-14.28	0
106.7	-28.35	-46.81	-14	-14.35	0
106.8	-28.50	-46.97	-14	-14.50	0
106.9	-28.74	-47.20	-14	-14.74	0
107.0	-29.06	-47.52	-14	-15.06	0
107.1	-29.48	-47.94	-14	-15.48	0
107.2	-30.00	-48.46	-14	-16.00	0
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107.7	-34.73	-53.19	-14	-20.73	0
107.8	-36.37	-54.83	-14	-22.37	0
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108.0	-41.19	-59.66	-14	-27.19	0
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108.3	-54.42	-72.89	-14	-40.42	0
108.4	-47.03	-65.49	-14	-33.03	0
108.5	-42.81	-61.27	-14	-28.81	0
108.6	-40.10	-58.56	-14	-26.10	0
108.7	-38.18	-56.64	-14	-24.18	0
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109.0	-34.87	-53.34	-14	-20.87	0
109.1	-34.28	-52.74	-14	-20.28	0

109.2	-33.88	-52.34	-14	-19.88	0
109.3	-33.63	-52.10	-14	-19.63	0
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109.5	-33.60	-52.06	-14	-19.60	0
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110.1	-36.85	-55.31	-14	-22.85	0
110.2	-37.67	-56.13	-14	-23.67	0
110.3	-38.27	-56.73	-14	-24.27	0
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110.5	-37.94	-56.40	-14	-23.94	0
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110.8	-34.46	-52.92	-14	-20.46	0
110.9	-33.24	-51.70	-14	-19.24	0
111.0	-32.13	-50.59	-14	-18.13	0
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112.0	-26.92	-45.38	-14	-12.92	0
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112.8	-29.04	-47.50	-14	-15.04	0
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113.0	-30.61	-49.07	-14	-16.61	0
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114.5	-37.12	-55.58	-14	-23.12	0
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122.1	-30.31	-48.77	-14	-16.31	0
122.2	-30.72	-49.18	-14	-16.72	0
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122.6	-33.33	-51.79	-14	-19.33	0
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123.0	-36.83	-55.29	-14	-22.83	0
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124.0	-29.46	-47.92	-14	-15.46	0
124.1	-28.91	-47.37	-14	-14.91	0

124.2	-28.46	-46.92	-14	-14.46	0
124.3	-28.12	-46.58	-14	-14.12	0
124.4	-27.88	-46.34	-14	-13.88	0
124.5	-27.74	-46.20	-14	-13.74	0
124.6	-27.69	-46.16	-14	-13.69	0
124.7	-27.75	-46.21	-14	-13.75	0
124.8	-27.90	-46.36	-14	-13.90	0
124.9	-28.15	-46.62	-14	-14.15	0
125.0	-28.51	-46.97	-14	-14.51	0
125.1	-28.98	-47.44	-14	-14.98	0
125.2	-29.56	-48.02	-14	-15.56	0
125.3	-30.26	-48.72	-14	-16.26	0
125.4	-31.09	-49.55	-14	-17.09	0
125.5	-32.05	-50.51	-14	-18.05	0
125.6	-33.14	-51.60	-14	-19.14	0
125.7	-34.36	-52.83	-14	-20.36	0
125.8	-35.70	-54.16	-14	-21.70	0
125.9	-37.09	-55.55	-14	-23.09	0
126.0	-38.45	-56.92	-14	-24.45	0
126.1	-39.65	-58.11	-14	-25.65	0
126.2	-40.55	-59.02	-14	-26.55	0
126.3	-41.15	-59.61	-14	-27.15	0
126.4	-41.54	-60.01	-14	-27.54	0
126.5	-41.95	-60.41	-14	-27.95	0
126.6	-42.57	-61.03	-14	-28.57	0
126.7	-43.61	-62.07	-14	-29.61	0
126.8	-45.37	-63.83	-14	-31.37	0
126.9	-48.38	-66.84	-14	-34.38	0
127.0	-54.08	-72.54	-14	-40.08	0
127.1	-56.25	-74.71	-14	-42.25	0
127.2	-48.11	-66.57	-14	-34.11	0
127.3	-43.15	-61.61	-14	-29.15	0
127.4	-39.76	-58.23	-14	-25.76	0
127.5	-37.22	-55.68	-14	-23.22	0
127.6	-35.22	-53.68	-14	-21.22	0
127.7	-33.59	-52.05	-14	-19.59	0
127.8	-32.26	-50.72	-14	-18.26	0
127.9	-31.16	-49.62	-14	-17.16	0
128.0	-30.26	-48.72	-14	-16.26	0
128.1	-29.52	-47.99	-14	-15.52	0
128.2	-28.95	-47.41	-14	-14.95	0
128.3	-28.51	-46.97	-14	-14.51	0
128.4	-28.21	-46.67	-14	-14.21	0
128.5	-28.02	-46.48	-14	-14.02	0
128.6	-27.96	-46.42	-14	-13.96	0
128.7	-28.01	-46.47	-14	-14.01	0
128.8	-28.17	-46.63	-14	-14.17	0
128.9	-28.45	-46.91	-14	-14.45	0
129.0	-28.84	-47.30	-14	-14.84	0
129.1	-29.34	-47.80	-14	-15.34	0

129.2	-29.97	-48.43	-14	-15.97	0
129.3	-30.72	-49.18	-14	-16.72	0
129.4	-31.60	-50.07	-14	-17.60	0
129.5	-32.63	-51.10	-14	-18.63	0
129.6	-33.83	-52.29	-14	-19.83	0
129.7	-35.20	-53.67	-14	-21.20	0
129.8	-36.79	-55.25	-14	-22.79	0
129.9	-38.59	-57.05	-14	-24.59	0
130.0	-40.56	-59.02	-14	-26.56	0
130.1	-42.38	-60.84	-14	-28.38	0
130.2	-43.26	-61.72	-14	-29.26	0
130.3	-42.55	-61.02	-14	-28.55	0
130.4	-40.85	-59.31	-14	-26.85	0
130.5	-38.97	-57.43	-14	-24.97	0
130.6	-37.25	-55.71	-14	-23.25	0
130.7	-35.75	-54.21	-14	-21.75	0
130.8	-34.46	-52.92	-14	-20.46	0
130.9	-33.37	-51.83	-14	-19.37	0
131.0	-32.45	-50.91	-14	-18.45	0
131.1	-31.68	-50.14	-14	-17.68	0
131.2	-31.06	-49.52	-14	-17.06	0
131.3	-30.58	-49.04	-14	-16.58	0
131.4	-30.24	-48.70	-14	-16.24	0
131.5	-30.04	-48.50	-14	-16.04	0
131.6	-29.97	-48.43	-14	-15.97	0
131.7	-30.04	-48.50	-14	-16.04	0
131.8	-30.25	-48.72	-14	-16.25	0
131.9	-30.62	-49.08	-14	-16.62	0
132.0	-31.14	-49.61	-14	-17.14	0
132.1	-31.83	-50.30	-14	-17.83	0
132.2	-32.70	-51.16	-14	-18.70	0
132.3	-33.73	-52.20	-14	-19.73	0
132.4	-34.93	-53.39	-14	-20.93	0
132.5	-36.22	-54.68	-14	-22.22	0
132.6	-37.47	-55.94	-14	-23.47	0
132.7	-38.46	-56.92	-14	-24.46	0
132.8	-38.95	-57.41	-14	-24.95	0
132.9	-38.91	-57.37	-14	-24.91	0
133.0	-38.57	-57.03	-14	-24.57	0
133.1	-38.19	-56.65	-14	-24.19	0
133.2	-37.98	-56.44	-14	-23.98	0
133.3	-38.04	-56.51	-14	-24.04	0
133.4	-38.48	-56.95	-14	-24.48	0
133.5	-39.40	-57.86	-14	-25.40	0
133.6	-40.94	-59.41	-14	-26.94	0
133.7	-43.41	-61.87	-14	-29.41	0
133.8	-47.09	-65.55	-14	-33.09	0
133.9	-49.17	-67.63	-14	-35.17	0
134.0	-44.88	-63.34	-14	-30.88	0
134.1	-40.58	-59.04	-14	-26.58	0

134.2	-37.44	-55.90	-14	-23.44	0
134.3	-35.09	-53.55	-14	-21.09	0
134.4	-33.27	-51.74	-14	-19.27	0
134.5	-31.86	-50.32	-14	-17.86	0
134.6	-30.75	-49.21	-14	-16.75	0
134.7	-29.91	-48.37	-14	-15.91	0
134.8	-29.28	-47.75	-14	-15.28	0
134.9	-28.86	-47.32	-14	-14.86	0
135.0	-28.63	-47.09	-14	-14.63	0
135.1	-28.57	-47.03	-14	-14.57	0
135.2	-28.68	-47.14	-14	-14.68	0
135.3	-28.96	-47.42	-14	-14.96	0
135.4	-29.41	-47.88	-14	-15.41	0
135.5	-30.05	-48.51	-14	-16.05	0
135.6	-30.87	-49.33	-14	-16.87	0
135.7	-31.89	-50.35	-14	-17.89	0
135.8	-33.13	-51.59	-14	-19.13	0
135.9	-34.63	-53.09	-14	-20.63	0
136.0	-36.42	-54.88	-14	-22.42	0
136.1	-38.58	-57.04	-14	-24.58	0
136.2	-41.25	-59.71	-14	-27.25	0
136.3	-44.71	-63.17	-14	-30.71	0
136.4	-49.79	-68.25	-14	-35.79	0
136.5	-60.47	-78.93	-14	-46.47	0
136.6	-56.94	-75.40	-14	-42.94	0
136.7	-48.95	-67.41	-14	-34.95	0
136.8	-44.71	-63.17	-14	-30.71	0
136.9	-41.70	-60.17	-14	-27.70	0
137.0	-39.33	-57.79	-14	-25.33	0
137.1	-37.36	-55.83	-14	-23.36	0
137.2	-35.71	-54.18	-14	-21.71	0
137.3	-34.33	-52.79	-14	-20.33	0
137.4	-33.19	-51.65	-14	-19.19	0
137.5	-32.27	-50.73	-14	-18.27	0
137.6	-31.57	-50.03	-14	-17.57	0
137.7	-31.08	-49.54	-14	-17.08	0
137.8	-30.80	-49.26	-14	-16.80	0
137.9	-30.73	-49.19	-14	-16.73	0
138.0	-30.89	-49.35	-14	-16.89	0
138.1	-31.29	-49.76	-14	-17.29	0
138.2	-31.97	-50.43	-14	-17.97	0
138.3	-32.97	-51.43	-14	-18.97	0
138.4	-34.37	-52.84	-14	-20.37	0
138.5	-36.30	-54.77	-14	-22.30	0
138.6	-38.97	-57.44	-14	-24.97	0
138.7	-42.65	-61.12	-14	-28.65	0
138.8	-46.25	-64.71	-14	-32.25	0
138.9	-44.55	-63.01	-14	-30.55	0
139.0	-40.86	-59.33	-14	-26.86	0
139.1	-38.17	-56.63	-14	-24.17	0

139.2	-36.36	-54.82	-14	-22.36	0
139.3	-35.19	-53.66	-14	-21.19	0
139.4	-34.55	-53.01	-14	-20.55	0
139.5	-34.35	-52.81	-14	-20.35	0
139.6	-34.59	-53.05	-14	-20.59	0
139.7	-35.30	-53.77	-14	-21.30	0
139.8	-36.58	-55.04	-14	-22.58	0
139.9	-38.62	-57.08	-14	-24.62	0
140.0	-41.86	-60.32	-14	-27.86	0
140.1	-46.86	-65.32	-14	-32.86	0
140.2	-47.58	-66.04	-14	-33.58	0
140.3	-41.97	-60.43	-14	-27.97	0
140.4	-37.99	-56.45	-14	-23.99	0
140.5	-35.28	-53.75	-14	-21.28	0
140.6	-33.36	-51.83	-14	-19.36	0
140.7	-31.98	-50.44	-14	-17.98	0
140.8	-31.00	-49.46	-14	-17.00	0
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141.0	-29.99	-48.45	-14	-15.99	0
141.1	-29.87	-48.34	-14	-15.87	0
141.2	-30.00	-48.46	-14	-16.00	0
141.3	-30.36	-48.82	-14	-16.36	0
141.4	-30.94	-49.40	-14	-16.94	0
141.5	-31.74	-50.20	-14	-17.74	0
141.6	-32.76	-51.22	-14	-18.76	0
141.7	-33.98	-52.45	-14	-19.98	0
141.8	-35.38	-53.84	-14	-21.38	0
141.9	-36.90	-55.36	-14	-22.90	0
142.0	-38.44	-56.90	-14	-24.44	0
142.1	-39.93	-58.39	-14	-25.93	0
142.2	-41.39	-59.85	-14	-27.39	0
142.3	-43.00	-61.46	-14	-29.00	0
142.4	-45.24	-63.71	-14	-31.24	0
142.5	-49.15	-67.62	-14	-35.15	0
142.6	-59.37	-77.83	-14	-45.37	0
142.7	-53.27	-71.73	-14	-39.27	0
142.8	-44.92	-63.38	-14	-30.92	0
142.9	-40.36	-58.82	-14	-26.36	0
143.0	-37.23	-55.70	-14	-23.23	0
143.1	-34.92	-53.38	-14	-20.92	0
143.2	-33.16	-51.62	-14	-19.16	0
143.3	-31.82	-50.29	-14	-17.82	0
143.4	-30.84	-49.30	-14	-16.84	0
143.5	-30.17	-48.63	-14	-16.17	0
143.6	-29.79	-48.25	-14	-15.79	0
143.7	-29.69	-48.15	-14	-15.69	0
143.8	-29.88	-48.34	-14	-15.88	0
143.9	-30.39	-48.85	-14	-16.39	0
144.0	-31.26	-49.72	-14	-17.26	0
144.1	-32.58	-51.04	-14	-18.58	0

144.2	-34.49	-52.95	-14	-20.49	0
144.3	-37.30	-55.76	-14	-23.30	0
144.4	-41.74	-60.21	-14	-27.74	0
144.5	-48.68	-67.14	-14	-34.68	0
144.6	-45.22	-63.69	-14	-31.22	0
144.7	-39.65	-58.11	-14	-25.65	0
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145.0	-33.00	-51.47	-14	-19.00	0
145.1	-32.24	-50.71	-14	-18.24	0
145.2	-31.94	-50.40	-14	-17.94	0
145.3	-32.05	-50.51	-14	-18.05	0
145.4	-32.58	-51.04	-14	-18.58	0
145.5	-33.57	-52.03	-14	-19.57	0
145.6	-35.14	-53.60	-14	-21.14	0
145.7	-37.50	-55.96	-14	-23.50	0
145.8	-41.24	-59.71	-14	-27.24	0
145.9	-48.47	-66.94	-14	-34.47	0
146.0	-57.76	-76.22	-14	-43.76	0
146.1	-44.65	-63.11	-14	-30.65	0
146.2	-39.99	-58.45	-14	-25.99	0
146.3	-37.39	-55.85	-14	-23.39	0
146.4	-35.82	-54.28	-14	-21.82	0
146.5	-34.90	-53.36	-14	-20.90	0
146.6	-34.45	-52.91	-14	-20.45	0
146.7	-34.37	-52.83	-14	-20.37	0
146.8	-34.55	-53.01	-14	-20.55	0
146.9	-34.84	-53.30	-14	-20.84	0
147.0	-35.06	-53.53	-14	-21.06	0
147.1	-35.02	-53.48	-14	-21.02	0
147.2	-34.62	-53.08	-14	-20.62	0
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147.4	-33.23	-51.69	-14	-19.23	0
147.5	-32.59	-51.05	-14	-18.59	0
147.6	-32.15	-50.62	-14	-18.15	0
147.7	-31.99	-50.45	-14	-17.99	0
147.8	-32.13	-50.59	-14	-18.13	0
147.9	-32.63	-51.09	-14	-18.63	0
148.0	-33.53	-51.99	-14	-19.53	0
148.1	-34.85	-53.31	-14	-20.85	0
148.2	-36.51	-54.97	-14	-22.51	0
148.3	-37.91	-56.38	-14	-23.91	0
148.4	-37.80	-56.26	-14	-23.80	0
148.5	-36.01	-54.47	-14	-22.01	0
148.6	-33.81	-52.28	-14	-19.81	0
148.7	-31.90	-50.37	-14	-17.90	0
148.8	-30.41	-48.87	-14	-16.41	0
148.9	-29.31	-47.77	-14	-15.31	0
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149.1	-28.12	-46.59	-14	-14.12	0

149.2	-27.99	-46.46	-14	-13.99	0
149.3	-28.16	-46.62	-14	-14.16	0
149.4	-28.63	-47.09	-14	-14.63	0
149.5	-29.42	-47.88	-14	-15.42	0
149.6	-30.57	-49.03	-14	-16.57	0
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149.9	-37.28	-55.74	-14	-23.28	0
150.0	-41.65	-60.11	-14	-27.65	0
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150.2	-55.95	-74.41	-14	-41.95	0
150.3	-46.51	-64.98	-14	-32.51	0
150.4	-42.89	-61.35	-14	-28.89	0
150.5	-41.22	-59.68	-14	-27.22	0
150.6	-40.48	-58.94	-14	-26.48	0
150.7	-40.11	-58.57	-14	-26.11	0
150.8	-39.54	-58.01	-14	-25.54	0
150.9	-38.38	-56.84	-14	-24.38	0
151.0	-36.72	-55.18	-14	-22.72	0
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151.2	-33.38	-51.84	-14	-19.38	0
151.3	-32.10	-50.56	-14	-18.10	0
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152.2	-38.34	-56.80	-14	-24.34	0
152.3	-40.36	-58.82	-14	-26.36	0
152.4	-38.66	-57.12	-14	-24.66	0
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152.6	-33.06	-51.52	-14	-19.06	0
152.7	-31.25	-49.71	-14	-17.25	0
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152.9	-29.23	-47.69	-14	-15.23	0
153.0	-28.86	-47.32	-14	-14.86	0
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153.2	-29.22	-47.68	-14	-15.22	0
153.3	-29.97	-48.43	-14	-15.97	0
153.4	-31.14	-49.60	-14	-17.14	0
153.5	-32.83	-51.29	-14	-18.83	0
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153.7	-38.68	-57.14	-14	-24.68	0
153.8	-44.32	-62.78	-14	-30.32	0
153.9	-60.00	-78.46	-14	-46.00	0
154.0	-49.56	-68.03	-14	-35.56	0
154.1	-43.50	-61.96	-14	-29.50	0

154.2	-40.92	-59.38	-14	-26.92	0
154.3	-39.71	-58.17	-14	-25.71	0
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154.5	-38.62	-57.08	-14	-24.62	0
154.6	-37.62	-56.08	-14	-23.62	0
154.7	-36.02	-54.48	-14	-22.02	0
154.8	-34.14	-52.60	-14	-20.14	0
154.9	-32.36	-50.82	-14	-18.36	0
155.0	-30.84	-49.30	-14	-16.84	0
155.1	-29.64	-48.10	-14	-15.64	0
155.2	-28.77	-47.23	-14	-14.77	0
155.3	-28.21	-46.68	-14	-14.21	0
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155.5	-28.07	-46.53	-14	-14.07	0
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155.7	-29.24	-47.70	-14	-15.24	0
155.8	-30.33	-48.79	-14	-16.33	0
155.9	-31.72	-50.18	-14	-17.72	0
156.0	-33.17	-51.63	-14	-19.17	0
156.1	-34.07	-52.54	-14	-20.07	0
156.2	-33.82	-52.28	-14	-19.82	0
156.3	-32.64	-51.10	-14	-18.64	0
156.4	-31.27	-49.73	-14	-17.27	0
156.5	-30.12	-48.58	-14	-16.12	0
156.6	-29.29	-47.75	-14	-15.29	0
156.7	-28.82	-47.28	-14	-14.82	0
156.8	-28.67	-47.13	-14	-14.67	0
156.9	-28.84	-47.30	-14	-14.84	0
157.0	-29.29	-47.75	-14	-15.29	0
157.1	-29.99	-48.45	-14	-15.99	0
157.2	-30.86	-49.32	-14	-16.86	0
157.3	-31.76	-50.22	-14	-17.76	0
157.4	-32.51	-50.97	-14	-18.51	0
157.5	-32.95	-51.41	-14	-18.95	0
157.6	-33.10	-51.56	-14	-19.10	0
157.7	-33.14	-51.60	-14	-19.14	0
157.8	-33.29	-51.75	-14	-19.29	0
157.9	-33.74	-52.21	-14	-19.74	0
158.0	-34.65	-53.11	-14	-20.65	0
158.1	-36.06	-54.52	-14	-22.06	0
158.2	-37.73	-56.19	-14	-23.73	0
158.3	-38.36	-56.83	-14	-24.36	0
158.4	-36.66	-55.13	-14	-22.66	0
158.5	-33.98	-52.44	-14	-19.98	0
158.6	-31.57	-50.04	-14	-17.57	0
158.7	-29.68	-48.14	-14	-15.68	0
158.8	-28.28	-46.74	-14	-14.28	0
158.9	-27.29	-45.76	-14	-13.29	0
159.0	-26.69	-45.15	-14	-12.69	0
159.1	-26.44	-44.90	-14	-12.44	0

159.2	-26.53	-44.99	-14	-12.53	0
159.3	-26.97	-45.43	-14	-12.97	0
159.4	-27.79	-46.25	-14	-13.79	0
159.5	-29.04	-47.50	-14	-15.04	0
159.6	-30.81	-49.27	-14	-16.81	0
159.7	-33.29	-51.76	-14	-19.29	0
159.8	-36.85	-55.32	-14	-22.85	0
159.9	-42.31	-60.78	-14	-28.31	0
160.0	-48.69	-67.15	-14	-34.69	0
160.1	-44.10	-62.56	-14	-30.10	0
160.2	-40.26	-58.72	-14	-26.26	0
160.3	-38.42	-56.88	-14	-24.42	0
160.4	-37.77	-56.23	-14	-23.77	0
160.5	-37.84	-56.30	-14	-23.84	0
160.6	-38.05	-56.51	-14	-24.05	0
160.7	-37.53	-56.00	-14	-23.53	0
160.8	-35.92	-54.38	-14	-21.92	0
160.9	-33.80	-52.26	-14	-19.80	0
161.0	-31.83	-50.29	-14	-17.83	0
161.1	-30.23	-48.69	-14	-16.23	0
161.2	-29.04	-47.50	-14	-15.04	0
161.3	-28.25	-46.72	-14	-14.25	0
161.4	-27.86	-46.32	-14	-13.86	0
161.5	-27.86	-46.32	-14	-13.86	0
161.6	-28.26	-46.72	-14	-14.26	0
161.7	-29.09	-47.55	-14	-15.09	0
161.8	-30.41	-48.87	-14	-16.41	0
161.9	-32.24	-50.70	-14	-18.24	0
162.0	-34.43	-52.89	-14	-20.43	0
162.1	-36.03	-54.50	-14	-22.03	0
162.2	-35.51	-53.97	-14	-21.51	0
162.3	-33.57	-52.03	-14	-19.57	0
162.4	-31.71	-50.17	-14	-17.71	0
162.5	-30.35	-48.81	-14	-16.35	0
162.6	-29.52	-47.98	-14	-15.52	0
162.7	-29.19	-47.65	-14	-15.19	0
162.8	-29.31	-47.77	-14	-15.31	0
162.9	-29.88	-48.34	-14	-15.88	0
163.0	-30.89	-49.35	-14	-16.89	0
163.1	-32.27	-50.73	-14	-18.27	0
163.2	-33.80	-52.26	-14	-19.80	0
163.3	-34.87	-53.33	-14	-20.87	0
163.4	-34.80	-53.26	-14	-20.80	0
163.5	-33.84	-52.30	-14	-19.84	0
163.6	-32.77	-51.23	-14	-18.77	0
163.7	-32.04	-50.50	-14	-18.04	0
163.8	-31.82	-50.28	-14	-17.82	0
163.9	-32.18	-50.64	-14	-18.18	0
164.0	-33.19	-51.65	-14	-19.19	0
164.1	-34.93	-53.39	-14	-20.93	0

164.2	-37.16	-55.62	-14	-23.16	0
164.3	-38.05	-56.51	-14	-24.05	0
164.4	-35.81	-54.28	-14	-21.81	0
164.5	-32.81	-51.27	-14	-18.81	0
164.6	-30.38	-48.84	-14	-16.38	0
164.7	-28.62	-47.08	-14	-14.62	0
164.8	-27.41	-45.87	-14	-13.41	0
164.9	-26.69	-45.15	-14	-12.69	0
165.0	-26.39	-44.85	-14	-12.39	0
165.1	-26.51	-44.97	-14	-12.51	0
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165.6	-35.03	-53.49	-14	-21.03	0
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165.8	-42.93	-61.39	-14	-28.93	0
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166.0	-37.70	-56.17	-14	-23.70	0
166.1	-36.36	-54.82	-14	-22.36	0
166.2	-36.30	-54.76	-14	-22.30	0
166.3	-37.61	-56.07	-14	-23.61	0
166.4	-41.03	-59.50	-14	-27.03	0
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166.6	-45.17	-63.63	-14	-31.17	0
166.7	-37.05	-55.51	-14	-23.05	0
166.8	-32.77	-51.23	-14	-18.77	0
166.9	-30.01	-48.47	-14	-16.01	0
167.0	-28.14	-46.60	-14	-14.14	0
167.1	-26.90	-45.36	-14	-12.90	0
167.2	-26.17	-44.63	-14	-12.17	0
167.3	-25.89	-44.36	-14	-11.89	0
167.4	-26.05	-44.52	-14	-12.05	0
167.5	-26.67	-45.13	-14	-12.67	0
167.6	-27.80	-46.27	-14	-13.80	0
167.7	-29.58	-48.04	-14	-15.58	0
167.8	-32.28	-50.74	-14	-18.28	0
167.9	-36.61	-55.07	-14	-22.61	0
168.0	-45.49	-63.95	-14	-31.49	0
168.1	-47.98	-66.44	-14	-33.98	0
168.2	-38.91	-57.37	-14	-24.91	0
168.3	-35.43	-53.90	-14	-21.43	0
168.4	-33.90	-52.37	-14	-19.90	0
168.5	-33.61	-52.07	-14	-19.61	0
168.6	-34.45	-52.91	-14	-20.45	0
168.7	-36.69	-55.15	-14	-22.69	0
168.8	-41.27	-59.73	-14	-27.27	0
168.9	-45.72	-64.18	-14	-31.72	0
169.0	-38.46	-56.93	-14	-24.46	0
169.1	-33.45	-51.91	-14	-19.45	0

169.2	-30.31	-48.77	-14	-16.31	0
169.3	-28.24	-46.70	-14	-14.24	0
169.4	-26.89	-45.35	-14	-12.89	0
169.5	-26.11	-44.57	-14	-12.11	0
169.6	-25.83	-44.30	-14	-11.83	0
169.7	-26.03	-44.50	-14	-12.03	0
169.8	-26.74	-45.20	-14	-12.74	0
169.9	-28.03	-46.49	-14	-14.03	0
170.0	-30.06	-48.53	-14	-16.06	0
170.1	-33.22	-51.68	-14	-19.22	0
170.2	-38.27	-56.73	-14	-24.27	0
170.3	-43.52	-61.98	-14	-29.52	0
170.4	-38.46	-56.92	-14	-24.46	0
170.5	-34.36	-52.82	-14	-20.36	0
170.6	-32.14	-50.60	-14	-18.14	0
170.7	-31.12	-49.58	-14	-17.12	0
170.8	-31.02	-49.48	-14	-17.02	0
170.9	-31.83	-50.29	-14	-17.83	0
171.0	-33.72	-52.18	-14	-19.72	0
171.1	-37.09	-55.55	-14	-23.09	0
171.2	-40.97	-59.44	-14	-26.97	0
171.3	-37.82	-56.28	-14	-23.82	0
171.4	-33.15	-51.61	-14	-19.15	0
171.5	-30.01	-48.47	-14	-16.01	0
171.6	-27.94	-46.40	-14	-13.94	0
171.7	-26.63	-45.09	-14	-12.63	0
171.8	-25.93	-44.39	-14	-11.93	0
171.9	-25.77	-44.23	-14	-11.77	0
172.0	-26.15	-44.61	-14	-12.15	0
172.1	-27.11	-45.57	-14	-13.11	0
172.2	-28.79	-47.25	-14	-14.79	0
172.3	-31.50	-49.96	-14	-17.50	0
172.4	-36.02	-54.48	-14	-22.02	0
172.5	-43.37	-61.84	-14	-29.37	0
172.6	-39.37	-57.84	-14	-25.37	0
172.7	-34.00	-52.46	-14	-20.00	0
172.8	-31.12	-49.59	-14	-17.12	0
172.9	-29.61	-48.07	-14	-15.61	0
173.0	-29.05	-47.51	-14	-15.05	0
173.1	-29.32	-47.78	-14	-15.32	0
173.2	-30.49	-48.96	-14	-16.49	0
173.3	-32.86	-51.33	-14	-18.86	0
173.4	-37.12	-55.58	-14	-23.12	0
173.5	-41.40	-59.86	-14	-27.40	0
173.6	-35.97	-54.43	-14	-21.97	0
173.7	-31.25	-49.71	-14	-17.25	0
173.8	-28.29	-46.75	-14	-14.29	0
173.9	-26.40	-44.86	-14	-12.40	0
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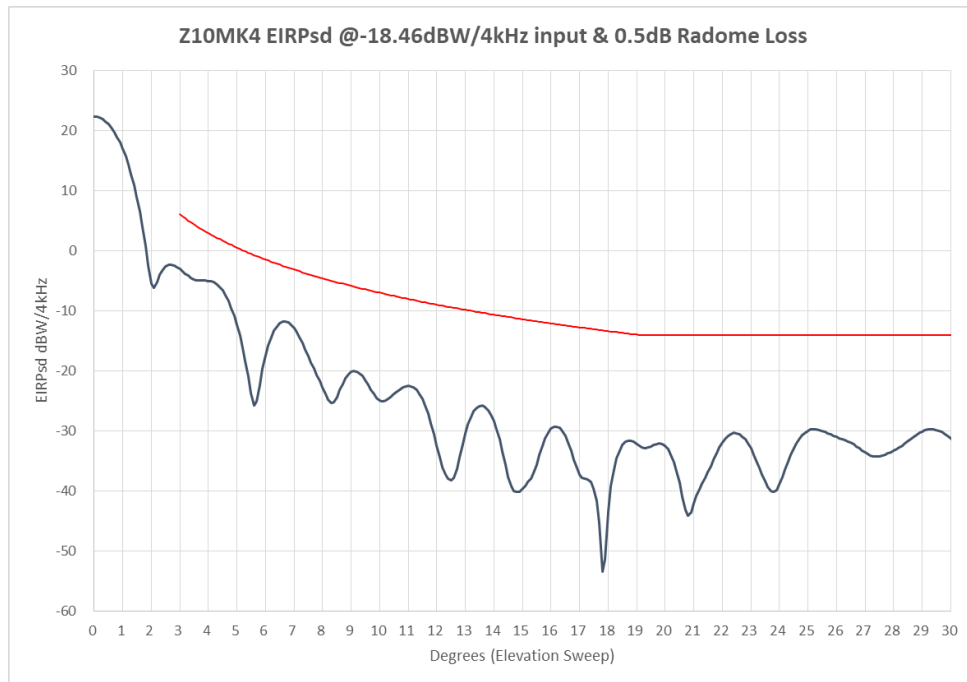
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174.5	-28.86	-47.32	-14	-14.86	0
174.6	-32.53	-50.99	-14	-18.53	0
174.7	-39.55	-58.01	-14	-25.55	0
174.8	-42.74	-61.20	-14	-28.74	0
174.9	-34.35	-52.81	-14	-20.35	0
175.0	-30.34	-48.81	-14	-16.34	0
175.1	-28.17	-46.63	-14	-14.17	0
175.2	-27.08	-45.54	-14	-13.08	0
175.3	-26.83	-45.29	-14	-12.83	0
175.4	-27.37	-45.83	-14	-13.37	0
175.5	-28.83	-47.29	-14	-14.83	0
175.6	-31.61	-50.07	-14	-17.61	0
175.7	-36.72	-55.18	-14	-22.72	0
175.8	-40.42	-58.88	-14	-26.42	0
175.9	-33.52	-51.98	-14	-19.52	0
176.0	-29.01	-47.47	-14	-15.01	0
176.1	-26.25	-44.72	-14	-12.25	0
176.2	-24.54	-43.00	-14	-10.54	0
176.3	-23.57	-42.03	-14	-9.57	0
176.4	-23.21	-41.68	-14	-9.21	0
176.5	-23.45	-41.91	-14	-9.45	0
176.6	-24.32	-42.78	-14	-10.32	0
176.7	-25.98	-44.44	-14	-11.98	0
176.8	-28.82	-47.29	-14	-14.82	0
176.9	-34.03	-52.49	-14	-20.03	0
177.0	-44.90	-63.36	-14	-30.90	0
177.1	-35.00	-53.46	-14	-21.00	0
177.2	-29.39	-47.85	-14	-15.39	0
177.3	-26.44	-44.91	-14	-12.44	0
177.4	-24.80	-43.26	-14	-10.80	0
177.5	-24.05	-42.51	-14	-10.05	0
177.6	-24.06	-42.52	-14	-10.06	0
177.7	-24.85	-43.31	-14	-10.85	0
177.8	-26.63	-45.09	-14	-12.63	0
177.9	-29.92	-48.39	-14	-15.92	0
178.0	-35.75	-54.21	-14	-21.75	0
178.1	-34.99	-53.45	-14	-20.99	0
178.2	-28.59	-47.05	-14	-14.59	0
178.3	-24.68	-43.14	-14	-10.68	0
178.4	-22.18	-40.65	-14	-8.18	0
178.5	-20.58	-39.04	-14	-6.58	0
178.6	-19.63	-38.09	-14	-5.63	0
178.7	-19.24	-37.70	-14	-5.24	0
178.8	-19.38	-37.84	-14	-5.38	0
178.9	-20.10	-38.56	-14	-6.10	0
179.0	-21.52	-39.98	-14	-7.52	0
179.1	-23.97	-42.43	-14	-9.97	0

179.2	-28.36	-46.82	-14	-14.36	0
179.3	-39.43	-57.89	-14	-25.43	0
179.4	-33.76	-52.22	-14	-19.76	0
179.5	-26.12	-44.59	-14	-12.12	0
179.6	-22.35	-40.82	-14	-8.35	0
179.7	-20.07	-38.53	-14	-6.07	0
179.8	-18.66	-37.12	-14	-4.66	0
179.9	-17.88	-36.34	-14	-3.88	0
180.0	-17.63	-36.09	-14	-3.63	0

1. Maximum co-polarized EIRP density

1) 14GHz

c) At off-axis angles from 0° to +30° range (Perpendicular)



Model Z10MK4
Frequency 14.00 [GHz]
GSO arc Perpendicular
EIRPsd Input -18.41 [dBW/4kHz]
Radome Loss 0.5 [dB]
40.83

Min input:
(@all freq.) -18.46

out of spec.

Elevation [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
0.0	40.83	22.37			
0.1	40.77	22.31			
0.2	40.61	22.15			
0.3	40.35	21.89			
0.4	39.99	21.52			
0.5	39.51	21.05			
0.6	38.93	20.47			
0.7	38.23	19.77			
0.8	37.41	18.95			
0.9	36.47	18.01			
1.0	35.39	16.93			
1.1	34.16	15.70			
1.2	32.77	14.31			
1.3	31.20	12.73			
1.4	29.41	10.95			
1.5	27.39	8.93			
1.6	25.07	6.61			
1.7	22.40	3.94			
1.8	19.32	0.86			
1.9	15.94	-2.52			
2.0	13.03	-5.44			
2.1	12.22	-6.24			
2.2	13.22	-5.25			
2.3	14.43	-4.03			
2.4	15.32	-3.15			
2.5	15.85	-2.62			
2.6	16.09	-2.37			
2.7	16.12	-2.34			
2.8	15.99	-2.47			
2.9	15.75	-2.71			
3.0	15.42	-3.04	6.071968632	9.35	0
3.1	15.05	-3.41	5.715957654	9.33	0
3.2	14.66	-3.81	5.371250542	9.29	0
3.3	14.28	-4.18	5.037151503	9.24	0
3.4	13.95	-4.51	4.713027074	9.24	0
3.5	13.70	-4.77	4.398298891	9.30	0
3.6	13.54	-4.92	4.092437481	9.44	0
3.7	13.47	-5.00	3.794956898	9.67	0
3.8	13.45	-5.01	3.505410085	9.95	0
3.9	13.46	-5.00	3.223384824	10.24	0
4.0	13.45	-5.02	2.948500217	10.50	0
4.1	13.36	-5.10	2.680403582	10.68	0

4.2	13.18	-5.28	2.41876774	10.76	0
4.3	12.87	-5.59	2.163288611	10.71	0
4.4	12.42	-6.04	1.913683088	10.51	0
4.5	11.81	-6.65	1.669687156	10.14	0
4.6	11.03	-7.44	1.431054208	9.60	0
4.7	10.07	-8.40	1.197553552	8.87	0
4.8	8.92	-9.54	0.968969066	7.95	0
4.9	7.58	-10.88	0.745097999	6.84	0
5.0	6.05	-12.41	0.525749892	5.52	0
5.1	4.31	-14.15	0.310745598	4.00	0
5.2	2.34	-16.12	0.099916409	2.24	0
5.3	0.11	-18.35	-0.10689674	0.22	0
5.4	-2.45	-20.92	-0.309843996	-2.14	0
5.5	-5.27	-23.74	-0.509067237	-4.77	0
5.6	-7.37	-25.83	-0.704700675	-6.66	0
5.7	-6.57	-25.03	-0.896871392	-5.67	0
5.8	-3.85	-22.31	-1.085699839	-2.77	0
5.9	-1.18	-19.64	-1.271300291	0.09	0
6.0	1.01	-17.45	-1.45378126	2.47	0
6.1	2.75	-15.71	-1.633245875	4.39	0
6.2	4.11	-14.35	-1.809792237	5.92	0
6.3	5.14	-13.32	-1.983513736	7.12	0
6.4	5.89	-12.57	-2.15449935	8.04	0
6.5	6.38	-12.08	-2.322833916	8.70	0
6.6	6.64	-11.82	-2.488598389	9.13	0
6.7	6.68	-11.78	-2.651870068	9.33	0
6.8	6.51	-11.95	-2.812722818	9.33	0
6.9	6.15	-12.31	-2.971227268	9.12	0
7.0	5.61	-12.85	-3.127451	8.74	0
7.1	4.90	-13.56	-3.281458718	8.18	0
7.2	4.05	-14.42	-3.433312411	7.48	0
7.3	3.07	-15.39	-3.583071503	6.66	0
7.4	2.03	-16.44	-3.730792993	5.76	0
7.5	0.95	-17.52	-3.876531585	4.82	0
7.6	-0.12	-18.58	-4.020339807	3.90	0
7.7	-1.16	-19.62	-4.162268129	3.00	0
7.8	-2.18	-20.64	-4.302365067	2.12	0
7.9	-3.22	-21.68	-4.440677282	1.22	0
8.0	-4.30	-22.76	-4.577249675	0.28	0
8.1	-5.41	-23.87	-4.712125472	-0.70	0
8.2	-6.40	-24.86	-4.84534631	-1.55	0
8.3	-6.94	-25.40	-4.976952309	-1.96	0
8.4	-6.74	-25.20	-5.106982152	-1.63	0
8.5	-5.89	-24.35	-5.235473143	-0.65	0
8.6	-4.76	-23.23	-5.362461281	0.60	0
8.7	-3.68	-22.14	-5.487981315	1.81	0
8.8	-2.79	-21.25	-5.612066804	2.82	0
8.9	-2.14	-20.60	-5.734750166	3.59	0
9.0	-1.74	-20.20	-5.856062736	4.11	0
9.1	-1.59	-20.05	-5.976034808	4.39	0

9.2	-1.66	-20.12	-6.094695684	4.43	0
9.3	-1.95	-20.41	-6.212073714	4.27	0
9.4	-2.42	-20.89	-6.32819634	3.90	0
9.5	-3.07	-21.53	-6.443090132	3.38	0
9.6	-3.83	-22.29	-6.556780826	2.73	0
9.7	-4.64	-23.11	-6.669293357	2.03	0
9.8	-5.42	-23.89	-6.780651892	1.36	0
9.9	-6.06	-24.52	-6.890879865	0.83	0
10.0	-6.47	-24.93	-7	0.53	0
10.1	-6.60	-25.06	-7.108034345	0.51	0
10.2	-6.50	-24.96	-7.215004294	0.72	0
10.3	-6.22	-24.68	-7.320930618	1.10	0
10.4	-5.85	-24.31	-7.425833482	1.58	0
10.5	-5.43	-23.89	-7.529732477	2.10	0
10.6	-5.02	-23.48	-7.632646632	2.61	0
10.7	-4.64	-23.11	-7.734594442	3.09	0
10.8	-4.34	-22.80	-7.835593887	3.49	0
10.9	-4.14	-22.60	-7.935662449	3.80	0
11.0	-4.05	-22.52	-8.034817129	3.98	0
11.1	-4.12	-22.58	-8.13307447	4.02	0
11.2	-4.35	-22.81	-8.230450567	3.88	0
11.3	-4.76	-23.23	-8.326961087	3.56	0
11.4	-5.38	-23.85	-8.422621283	3.04	0
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11.6	-7.31	-25.78	-8.611449731	1.30	0
11.7	-8.65	-27.12	-8.704646544	0.05	0
11.8	-10.25	-28.71	-8.797050183	-1.46	0
11.9	-12.08	-30.55	-8.888674035	-3.20	0
12.0	-14.06	-32.53	-8.979531151	-5.08	0
12.1	-16.00	-34.46	-9.069634258	-6.93	0
12.2	-17.64	-36.10	-9.158995767	-8.48	0
12.3	-18.80	-37.26	-9.247627786	-9.55	0
12.4	-19.52	-37.98	-9.335542129	-10.18	0
12.5	-19.78	-38.25	-9.422750325	-10.36	0
12.6	-19.30	-37.77	-9.509263628	-9.79	0
12.7	-17.88	-36.34	-9.595093024	-8.29	0
12.8	-15.87	-34.34	-9.680249241	-6.19	0
12.9	-13.80	-32.27	-9.764742757	-4.04	0
13.0	-11.96	-30.42	-9.848583808	-2.11	0
13.1	-10.42	-28.88	-9.931782391	-0.49	0
13.2	-9.21	-27.67	-10.01434828	0.80	0
13.3	-8.31	-26.78	-10.09629102	1.78	0
13.4	-7.71	-26.17	-10.17761996	2.46	0
13.5	-7.39	-25.86	-10.25834421	2.87	0
13.6	-7.35	-25.81	-10.33847271	2.99	0
13.7	-7.57	-26.03	-10.41801418	2.85	0
13.8	-8.07	-26.53	-10.49697716	2.43	0
13.9	-8.84	-27.30	-10.57537001	1.73	0
14.0	-9.91	-28.37	-10.65320089	0.74	0
14.1	-11.29	-29.75	-10.73047782	-0.56	0

14.2	-12.98	-31.44	-10.80720861	-2.17	0
14.3	-14.96	-33.42	-10.88340094	-4.08	0
14.4	-17.13	-35.59	-10.9590623	-6.17	0
14.5	-19.20	-37.66	-11.03420006	-8.16	0
14.6	-20.72	-39.18	-11.10882139	-9.61	0
14.7	-21.49	-39.95	-11.18293337	-10.30	0
14.8	-21.73	-40.19	-11.25654288	-10.47	0
14.9	-21.67	-40.13	-11.32965671	-10.34	0
15.0	-21.18	-39.65	-11.40228148	-9.78	0
15.1	-20.70	-39.16	-11.47442368	-9.22	0
15.2	-20.09	-38.55	-11.5460897	-8.54	0
15.3	-19.45	-37.91	-11.61728577	-7.83	0
15.4	-18.54	-37.00	-11.68801802	-6.85	0
15.5	-17.21	-35.67	-11.75829245	-5.45	0
15.6	-15.57	-34.03	-11.82811496	-3.74	0
15.7	-14.03	-32.49	-11.89749131	-2.13	0
15.8	-12.77	-31.23	-11.96642717	-0.80	0
15.9	-11.82	-30.28	-12.03492811	0.22	0
16.0	-11.18	-29.65	-12.10299957	0.92	0
16.1	-10.85	-29.32	-12.1706469	1.32	0
16.2	-10.82	-29.28	-12.23787536	1.42	0
16.3	-11.07	-29.53	-12.30469011	1.24	0
16.4	-11.60	-30.06	-12.3710962	0.77	0
16.5	-12.42	-30.88	-12.43709861	0.02	0
16.6	-13.51	-31.98	-12.5027022	-1.01	0
16.7	-14.85	-33.31	-12.56791178	-2.28	0
16.8	-16.34	-34.80	-12.63273204	-3.71	0
16.9	-17.77	-36.23	-12.69716762	-5.07	0
17.0	-18.83	-37.30	-12.76122303	-6.07	0
17.1	-19.36	-37.82	-12.82490276	-6.53	0
17.2	-19.51	-37.97	-12.88821117	-6.62	0
17.3	-19.65	-38.11	-12.95115258	-6.70	0
17.4	-20.11	-38.57	-13.01373121	-7.10	0
17.5	-21.16	-39.63	-13.07595122	-8.09	0
17.6	-23.15	-41.61	-13.1378167	-10.01	0
17.7	-26.83	-45.29	-13.19933166	-13.63	0
17.8	-34.91	-53.38	-13.26050006	-21.65	0
17.9	-32.96	-51.42	-13.32132577	-19.64	0
18.0	-24.93	-43.39	-13.38181263	-11.55	0
18.1	-20.69	-39.15	-13.44196437	-7.25	0
18.2	-17.96	-36.42	-13.5017847	-4.46	0
18.3	-16.09	-34.55	-13.56127724	-2.53	0
18.4	-14.79	-33.25	-13.62044558	-1.17	0
18.5	-13.92	-32.38	-13.67929321	-0.24	0
18.6	-13.40	-31.86	-13.73782361	0.34	0
18.7	-13.17	-31.64	-13.79604016	0.62	0
18.8	-13.19	-31.65	-13.85394623	0.67	0
18.9	-13.39	-31.85	-13.9115451	0.53	0
19.0	-13.70	-32.16	-13.96884002	0.27	0
19.1	-14.05	-32.51	-14.02583418	-0.02	0

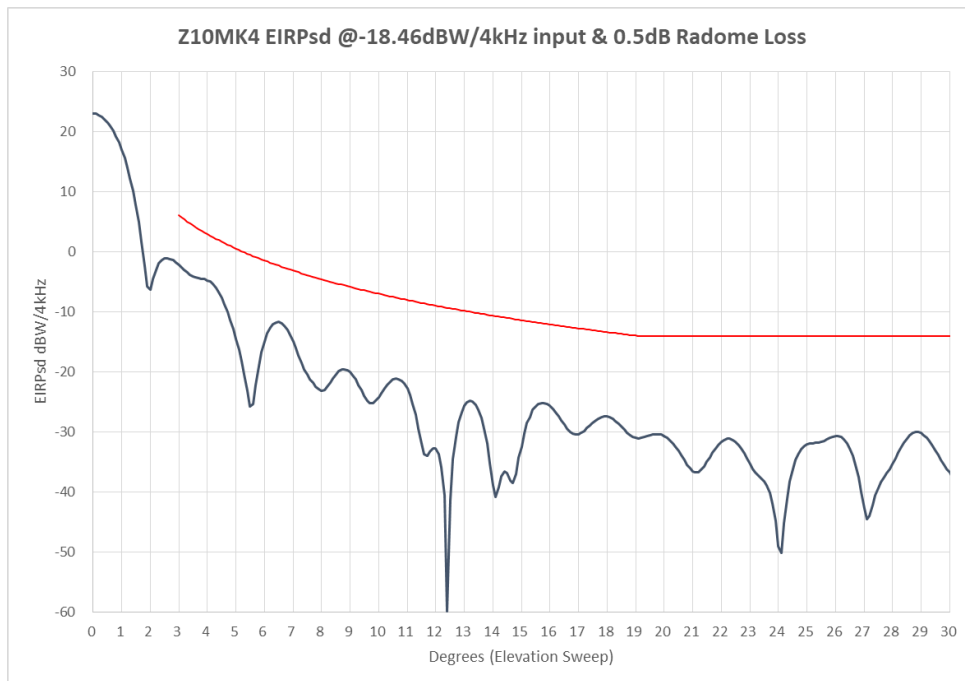
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19.7	-13.69	-32.15	-14	0.31	0
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20.0	-14.05	-32.51	-14	-0.05	0
20.1	-14.63	-33.09	-14	-0.63	0
20.2	-15.50	-33.96	-14	-1.50	0
20.3	-16.69	-35.15	-14	-2.69	0
20.4	-18.24	-36.70	-14	-4.24	0
20.5	-20.18	-38.64	-14	-6.18	0
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20.7	-24.65	-43.11	-14	-10.65	0
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20.9	-25.05	-43.52	-14	-11.05	0
21.0	-23.67	-42.13	-14	-9.67	0
21.1	-22.33	-40.79	-14	-8.33	0
21.2	-21.22	-39.68	-14	-7.22	0
21.3	-20.27	-38.73	-14	-6.27	0
21.4	-19.36	-37.82	-14	-5.36	0
21.5	-18.40	-36.87	-14	-4.40	0
21.6	-17.38	-35.85	-14	-3.38	0
21.7	-16.33	-34.79	-14	-2.33	0
21.8	-15.30	-33.76	-14	-1.30	0
21.9	-14.36	-32.82	-14	-0.36	0
22.0	-13.54	-32.00	-14	0.46	0
22.1	-12.87	-31.33	-14	1.13	0
22.2	-12.37	-30.83	-14	1.63	0
22.3	-12.04	-30.50	-14	1.96	0
22.4	-11.89	-30.35	-14	2.11	0
22.5	-11.90	-30.37	-14	2.10	0
22.6	-12.09	-30.56	-14	1.91	0
22.7	-12.45	-30.92	-14	1.55	0
22.8	-12.98	-31.44	-14	1.02	0
22.9	-13.66	-32.13	-14	0.34	0
23.0	-14.50	-32.96	-14	-0.50	0
23.1	-15.46	-33.92	-14	-1.46	0
23.2	-16.54	-35.00	-14	-2.54	0
23.3	-17.69	-36.15	-14	-3.69	0
23.4	-18.85	-37.31	-14	-4.85	0
23.5	-19.96	-38.43	-14	-5.96	0
23.6	-20.92	-39.38	-14	-6.92	0
23.7	-21.56	-40.02	-14	-7.56	0
23.8	-21.74	-40.20	-14	-7.74	0
23.9	-21.36	-39.82	-14	-7.36	0
24.0	-20.47	-38.94	-14	-6.47	0
24.1	-19.28	-37.74	-14	-5.28	0

24.2	-17.96	-36.42	-14	-3.96	0
24.3	-16.67	-35.14	-14	-2.67	0
24.4	-15.49	-33.95	-14	-1.49	0
24.5	-14.44	-32.91	-14	-0.44	0
24.6	-13.55	-32.01	-14	0.45	0
24.7	-12.82	-31.28	-14	1.18	0
24.8	-12.23	-30.69	-14	1.77	0
24.9	-11.79	-30.25	-14	2.21	0
25.0	-11.49	-29.95	-14	2.51	0
25.1	-11.30	-29.77	-14	2.70	0
25.2	-11.23	-29.70	-14	2.77	0
25.3	-11.26	-29.72	-14	2.74	0
25.4	-11.36	-29.83	-14	2.64	0
25.5	-11.53	-29.99	-14	2.47	0
25.6	-11.73	-30.19	-14	2.27	0
25.7	-11.95	-30.41	-14	2.05	0
25.8	-12.16	-30.63	-14	1.84	0
25.9	-12.37	-30.83	-14	1.63	0
26.0	-12.55	-31.02	-14	1.45	0
26.1	-12.73	-31.19	-14	1.27	0
26.2	-12.89	-31.36	-14	1.11	0
26.3	-13.07	-31.53	-14	0.93	0
26.4	-13.28	-31.74	-14	0.72	0
26.5	-13.51	-31.98	-14	0.49	0
26.6	-13.79	-32.25	-14	0.21	0
26.7	-14.11	-32.57	-14	-0.11	0
26.8	-14.46	-32.92	-14	-0.46	0
26.9	-14.81	-33.27	-14	-0.81	0
27.0	-15.15	-33.61	-14	-1.15	0
27.1	-15.45	-33.91	-14	-1.45	0
27.2	-15.67	-34.13	-14	-1.67	0
27.3	-15.80	-34.26	-14	-1.80	0
27.4	-15.83	-34.29	-14	-1.83	0
27.5	-15.78	-34.25	-14	-1.78	0
27.6	-15.67	-34.13	-14	-1.67	0
27.7	-15.51	-33.97	-14	-1.51	0
27.8	-15.31	-33.77	-14	-1.31	0
27.9	-15.09	-33.56	-14	-1.09	0
28.0	-14.86	-33.32	-14	-0.86	0
28.1	-14.59	-33.05	-14	-0.59	0
28.2	-14.30	-32.76	-14	-0.30	0
28.3	-13.98	-32.44	-14	0.02	0
28.4	-13.63	-32.09	-14	0.37	0
28.5	-13.26	-31.72	-14	0.74	0
28.6	-12.89	-31.35	-14	1.11	0
28.7	-12.52	-30.99	-14	1.48	0
28.8	-12.18	-30.64	-14	1.82	0
28.9	-11.88	-30.34	-14	2.12	0
29.0	-11.62	-30.09	-14	2.38	0
29.1	-11.43	-29.89	-14	2.57	0

29.2	-11.30	-29.76	-14	2.70	0
29.3	-11.24	-29.71	-14	2.76	0
29.4	-11.26	-29.72	-14	2.74	0
29.5	-11.35	-29.81	-14	2.65	0
29.6	-11.52	-29.98	-14	2.48	0
29.7	-11.75	-30.21	-14	2.25	0
29.8	-12.05	-30.51	-14	1.95	0
29.9	-12.41	-30.87	-14	1.59	0
30.0	-12.82	-31.28	-14	1.18	0

3) 14.5GHz

c) At off-axis angles from 0° to +30° range (Perpendicular)



Model Z10MK4
Frequency 14.50 [GHz]
GSO arc Perpendicular
EIRPsd Input -18.41 [dBW/4kHz]
Radome Loss 0.5 [dB]
41.47

Min input:
(@all freq.) -18.46

out of spec.

Elevation [°]	Co-Pol. (dBi)	EIRPsd	Envelope (Co) [dBW/4kHz]		0
0.0	41.47	23.01			
0.1	41.40	22.94			
0.2	41.22	22.76			
0.3	40.93	22.46			
0.4	40.52	22.06			
0.5	40.00	21.53			
0.6	39.35	20.89			
0.7	38.58	20.12			
0.8	37.67	19.21			
0.9	36.62	18.16			
1.0	35.42	16.96			
1.1	34.04	15.58			
1.2	32.46	14.00			
1.3	30.67	12.20			
1.4	28.60	10.14			
1.5	26.20	7.74			
1.6	23.39	4.93			
1.7	20.05	1.59			
1.8	16.17	-2.29			
1.9	12.66	-5.80			
2.0	12.21	-6.25			
2.1	13.92	-4.54			
2.2	15.48	-2.98			
2.3	16.51	-1.96			
2.4	17.09	-1.37			
2.5	17.36	-1.10			
2.6	17.40	-1.07			
2.7	17.27	-1.20			
2.8	17.02	-1.44			
2.9	16.68	-1.78			
3.0	16.28	-2.18	6.071968632	10.21	0
3.1	15.84	-2.62	5.715957654	10.12	0
3.2	15.39	-3.07	5.371250542	10.02	0
3.3	14.97	-3.49	5.037151503	9.93	0
3.4	14.61	-3.86	4.713027074	9.89	0
3.5	14.33	-4.13	4.398298891	9.93	0
3.6	14.15	-4.31	4.092437481	10.06	0
3.7	14.04	-4.42	3.794956898	10.25	0
3.8	13.97	-4.50	3.505410085	10.46	0
3.9	13.87	-4.59	3.223384824	10.65	0
4.0	13.71	-4.75	2.948500217	10.76	0
4.1	13.45	-5.01	2.680403582	10.77	0

4.2	13.05	-5.42	2.41876774	10.63	0
4.3	12.48	-5.98	2.163288611	10.32	0
4.4	11.75	-6.71	1.913683088	9.84	0
4.5	10.84	-7.62	1.669687156	9.17	0
4.6	9.75	-8.72	1.431054208	8.31	0
4.7	8.48	-9.98	1.197553552	7.28	0
4.8	7.06	-11.40	0.968969066	6.10	0
4.9	5.52	-12.94	0.745097999	4.78	0
5.0	3.88	-14.58	0.525749892	3.35	0
5.1	2.13	-16.33	0.310745598	1.82	0
5.2	0.21	-18.25	0.099916409	0.11	0
5.3	-2.01	-20.48	-0.10689674	-1.91	0
5.4	-4.70	-23.16	-0.309843996	-4.39	0
5.5	-7.27	-25.73	-0.509067237	-6.76	0
5.6	-6.87	-25.33	-0.704700675	-6.17	0
5.7	-3.72	-22.18	-0.896871392	-2.82	0
5.8	-0.66	-19.12	-1.085699839	0.43	0
5.9	1.72	-16.74	-1.271300291	2.99	0
6.0	3.52	-14.94	-1.45378126	4.97	0
6.1	4.84	-13.62	-1.633245875	6.48	0
6.2	5.78	-12.68	-1.809792237	7.59	0
6.3	6.39	-12.07	-1.983513736	8.38	0
6.4	6.71	-11.75	-2.15449935	8.87	0
6.5	6.76	-11.70	-2.322833916	9.08	0
6.6	6.56	-11.90	-2.488598389	9.05	0
6.7	6.12	-12.34	-2.651870068	8.78	0
6.8	5.47	-12.99	-2.812722818	8.28	0
6.9	4.61	-13.85	-2.971227268	7.58	0
7.0	3.58	-14.88	-3.127451	6.71	0
7.1	2.41	-16.05	-3.281458718	5.70	0
7.2	1.19	-17.27	-3.433312411	4.62	0
7.3	-0.01	-18.47	-3.583071503	3.58	0
7.4	-1.08	-19.54	-3.730792993	2.65	0
7.5	-1.99	-20.45	-3.876531585	1.89	0
7.6	-2.75	-21.21	-4.020339807	1.27	0
7.7	-3.40	-21.86	-4.162268129	0.76	0
7.8	-3.98	-22.44	-4.302365067	0.32	0
7.9	-4.44	-22.91	-4.440677282	0.00	0
8.0	-4.68	-23.14	-4.577249675	-0.10	0
8.1	-4.55	-23.01	-4.712125472	0.16	0
8.2	-4.07	-22.53	-4.84534631	0.78	0
8.3	-3.36	-21.82	-4.976952309	1.62	0
8.4	-2.61	-21.07	-5.106982152	2.50	0
8.5	-1.94	-20.40	-5.235473143	3.29	0
8.6	-1.45	-19.91	-5.362461281	3.92	0
8.7	-1.15	-19.62	-5.487981315	4.33	0
8.8	-1.08	-19.54	-5.612066804	4.54	0
8.9	-1.22	-19.68	-5.734750166	4.52	0
9.0	-1.56	-20.03	-5.856062736	4.29	0
9.1	-2.11	-20.57	-5.976034808	3.87	0

9.2	-2.83	-21.29	-6.094695684	3.26	0
9.3	-3.69	-22.15	-6.212073714	2.52	0
9.4	-4.63	-23.09	-6.32819634	1.70	0
9.5	-5.54	-24.00	-6.443090132	0.90	0
9.6	-6.29	-24.75	-6.556780826	0.27	0
9.7	-6.72	-25.18	-6.669293357	-0.05	0
9.8	-6.74	-25.20	-6.780651892	0.05	0
9.9	-6.38	-24.84	-6.890879865	0.52	0
10.0	-5.77	-24.23	-7	1.23	0
10.1	-5.05	-23.51	-7.108034345	2.06	0
10.2	-4.34	-22.80	-7.215004294	2.88	0
10.3	-3.70	-22.17	-7.320930618	3.62	0
10.4	-3.20	-21.66	-7.425833482	4.23	0
10.5	-2.85	-21.31	-7.529732477	4.68	0
10.6	-2.69	-21.15	-7.632646632	4.95	0
10.7	-2.73	-21.19	-7.734594442	5.01	0
10.8	-2.99	-21.45	-7.835593887	4.84	0
10.9	-3.51	-21.97	-7.935662449	4.43	0
11.0	-4.30	-22.77	-8.034817129	3.73	0
11.1	-5.41	-23.87	-8.13307447	2.72	0
11.2	-6.88	-25.34	-8.230450567	1.35	0
11.3	-8.74	-27.21	-8.326961087	-0.42	0
11.4	-11.01	-29.47	-8.422621283	-2.59	0
11.5	-13.45	-31.91	-8.517446009	-4.93	0
11.6	-15.27	-33.73	-8.611449731	-6.66	0
11.7	-15.55	-34.01	-8.704646544	-6.85	0
11.8	-14.86	-33.32	-8.797050183	-6.06	0
11.9	-14.28	-32.75	-8.888674035	-5.40	0
12.0	-14.33	-32.79	-8.979531151	-5.35	0
12.1	-15.24	-33.70	-9.069634258	-6.17	0
12.2	-17.42	-35.88	-9.158995767	-8.26	0
12.3	-22.09	-40.55	-9.247627786	-12.84	0
12.4	-41.46	-59.92	-9.335542129	-32.12	0
12.5	-22.88	-41.34	-9.422750325	-13.46	0
12.6	-16.11	-34.57	-9.509263628	-6.60	0
12.7	-12.38	-30.84	-9.595093024	-2.78	0
12.8	-9.95	-28.41	-9.680249241	-0.27	0
12.9	-8.30	-26.76	-9.764742757	1.47	0
13.0	-7.21	-25.67	-9.848583808	2.64	0
13.1	-6.58	-25.04	-9.931782391	3.35	0
13.2	-6.34	-24.80	-10.01434828	3.67	0
13.3	-6.48	-24.94	-10.09629102	3.62	0
13.4	-6.98	-25.44	-10.17761996	3.20	0
13.5	-7.87	-26.33	-10.25834421	2.39	0
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13.7	-11.02	-29.49	-10.41801418	-0.61	0
13.8	-13.48	-31.94	-10.49697716	-2.98	0
13.9	-16.71	-35.17	-10.57537001	-6.13	0
14.0	-20.46	-38.92	-10.65320089	-9.80	0
14.1	-22.31	-40.77	-10.73047782	-11.58	0

14.2	-20.76	-39.22	-10.80720861	-9.96	0
14.3	-19.00	-37.47	-10.88340094	-8.12	0
14.4	-18.18	-36.64	-10.9590623	-7.22	0
14.5	-18.35	-36.81	-11.03420006	-7.32	0
14.6	-19.60	-38.07	-11.10882139	-8.50	0
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15.0	-14.02	-32.48	-11.40228148	-2.62	0
15.1	-11.78	-30.24	-11.47442368	-0.31	0
15.2	-10.02	-28.49	-11.5460897	1.52	0
15.3	-9.06	-27.52	-11.61728577	2.56	0
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16.8	-11.87	-30.33	-12.63273204	0.77	0
16.9	-12.00	-30.46	-12.69716762	0.70	0
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17.2	-11.35	-29.81	-12.88821117	1.54	0
17.3	-10.93	-29.39	-12.95115258	2.02	0
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17.5	-10.05	-28.51	-13.07595122	3.03	0
17.6	-9.66	-28.13	-13.1378167	3.47	0
17.7	-9.35	-27.81	-13.19933166	3.85	0
17.8	-9.13	-27.59	-13.26050006	4.13	0
17.9	-9.02	-27.48	-13.32132577	4.30	0
18.0	-9.02	-27.48	-13.38181263	4.36	0
18.1	-9.14	-27.60	-13.44196437	4.31	0
18.2	-9.37	-27.83	-13.5017847	4.14	0
18.3	-9.70	-28.17	-13.56127724	3.86	0
18.4	-10.13	-28.59	-13.62044558	3.49	0
18.5	-10.62	-29.09	-13.67929321	3.06	0
18.6	-11.15	-29.61	-13.73782361	2.59	0
18.7	-11.65	-30.11	-13.79604016	2.15	0
18.8	-12.08	-30.54	-13.85394623	1.77	0
18.9	-12.39	-30.86	-13.9115451	1.52	0
19.0	-12.57	-31.03	-13.96884002	1.40	0
19.1	-12.60	-31.06	-14.02583418	1.43	0

19.2	-12.52	-30.98	-14	1.48	0
19.3	-12.38	-30.84	-14	1.62	0
19.4	-12.21	-30.67	-14	1.79	0
19.5	-12.06	-30.52	-14	1.94	0
19.6	-11.95	-30.41	-14	2.05	0
19.7	-11.90	-30.36	-14	2.10	0
19.8	-11.92	-30.38	-14	2.08	0
19.9	-12.03	-30.49	-14	1.97	0
20.0	-12.23	-30.69	-14	1.77	0
20.1	-12.53	-30.99	-14	1.47	0
20.2	-12.93	-31.39	-14	1.07	0
20.3	-13.43	-31.89	-14	0.57	0
20.4	-14.02	-32.49	-14	-0.02	0
20.5	-14.71	-33.17	-14	-0.71	0
20.6	-15.45	-33.91	-14	-1.45	0
20.7	-16.23	-34.69	-14	-2.23	0
20.8	-16.98	-35.44	-14	-2.98	0
20.9	-17.63	-36.10	-14	-3.63	0
21.0	-18.10	-36.57	-14	-4.10	0
21.1	-18.31	-36.78	-14	-4.31	0
21.2	-18.22	-36.68	-14	-4.22	0
21.3	-17.84	-36.31	-14	-3.84	0
21.4	-17.25	-35.71	-14	-3.25	0
21.5	-16.52	-34.98	-14	-2.52	0
21.6	-15.74	-34.20	-14	-1.74	0
21.7	-14.98	-33.44	-14	-0.98	0
21.8	-14.28	-32.75	-14	-0.28	0
21.9	-13.69	-32.15	-14	0.31	0
22.0	-13.22	-31.68	-14	0.78	0
22.1	-12.89	-31.35	-14	1.11	0
22.2	-12.72	-31.18	-14	1.28	0
22.3	-12.71	-31.17	-14	1.29	0
22.4	-12.86	-31.32	-14	1.14	0
22.5	-13.19	-31.65	-14	0.81	0
22.6	-13.68	-32.14	-14	0.32	0
22.7	-14.33	-32.80	-14	-0.33	0
22.8	-15.12	-33.58	-14	-1.12	0
22.9	-15.99	-34.45	-14	-1.99	0
23.0	-16.87	-35.33	-14	-2.87	0
23.1	-17.67	-36.13	-14	-3.67	0
23.2	-18.33	-36.79	-14	-4.33	0
23.3	-18.83	-37.29	-14	-4.83	0
23.4	-19.26	-37.72	-14	-5.26	0
23.5	-19.76	-38.22	-14	-5.76	0
23.6	-20.49	-38.95	-14	-6.49	0
23.7	-21.64	-40.10	-14	-7.64	0
23.8	-23.45	-41.91	-14	-9.45	0
23.9	-26.29	-44.76	-14	-12.29	0
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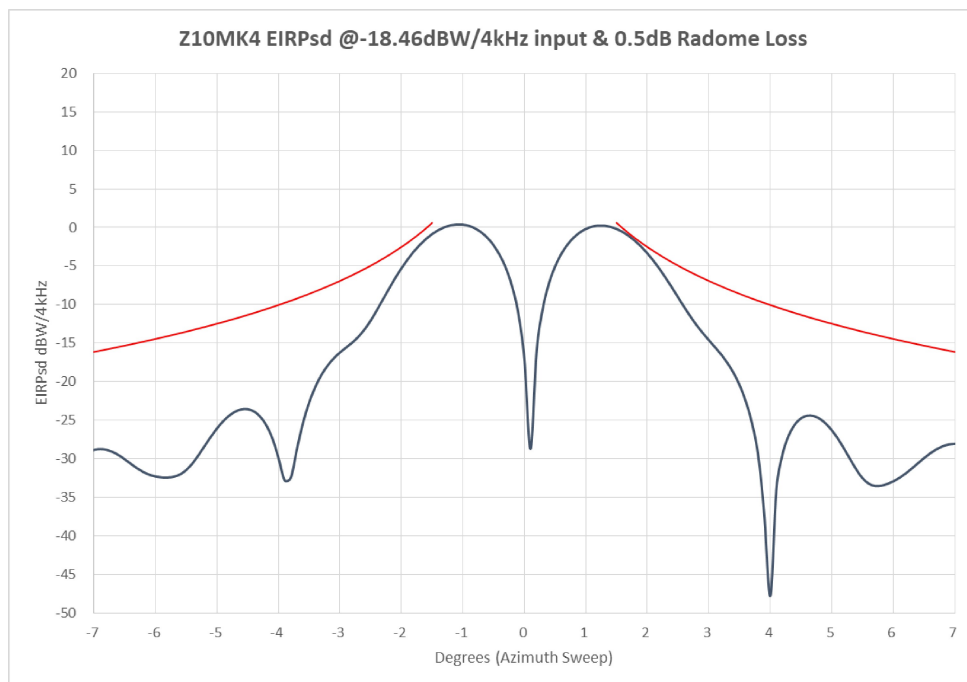
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24.7	-15.18	-33.64	-14	-1.18	0
24.8	-14.42	-32.88	-14	-0.42	0
24.9	-13.91	-32.37	-14	0.09	0
25.0	-13.61	-32.07	-14	0.39	0
25.1	-13.47	-31.93	-14	0.53	0
25.2	-13.42	-31.88	-14	0.58	0
25.3	-13.40	-31.86	-14	0.60	0
25.4	-13.36	-31.82	-14	0.64	0
25.5	-13.25	-31.72	-14	0.75	0
25.6	-13.07	-31.53	-14	0.93	0
25.7	-12.82	-31.28	-14	1.18	0
25.8	-12.56	-31.03	-14	1.44	0
25.9	-12.35	-30.81	-14	1.65	0
26.0	-12.23	-30.69	-14	1.77	0
26.1	-12.24	-30.70	-14	1.76	0
26.2	-12.42	-30.89	-14	1.58	0
26.3	-12.81	-31.27	-14	1.19	0
26.4	-13.42	-31.89	-14	0.58	0
26.5	-14.30	-32.77	-14	-0.30	0
26.6	-15.49	-33.95	-14	-1.49	0
26.7	-17.05	-35.51	-14	-3.05	0
26.8	-19.03	-37.50	-14	-5.03	0
26.9	-21.50	-39.97	-14	-7.50	0
27.0	-24.26	-42.72	-14	-10.26	0
27.1	-26.13	-44.60	-14	-12.13	0
27.2	-25.58	-44.04	-14	-11.58	0
27.3	-23.76	-42.22	-14	-9.76	0
27.4	-22.07	-40.53	-14	-8.07	0
27.5	-20.80	-39.26	-14	-6.80	0
27.6	-19.87	-38.33	-14	-5.87	0
27.7	-19.13	-37.59	-14	-5.13	0
27.8	-18.44	-36.91	-14	-4.44	0
27.9	-17.70	-36.17	-14	-3.70	0
28.0	-16.86	-35.32	-14	-2.86	0
28.1	-15.93	-34.39	-14	-1.93	0
28.2	-14.98	-33.44	-14	-0.98	0
28.3	-14.07	-32.54	-14	-0.07	0
28.4	-13.27	-31.73	-14	0.73	0
28.5	-12.60	-31.06	-14	1.40	0
28.6	-12.09	-30.55	-14	1.91	0
28.7	-11.74	-30.20	-14	2.26	0
28.8	-11.56	-30.03	-14	2.44	0
28.9	-11.56	-30.02	-14	2.44	0
29.0	-11.72	-30.18	-14	2.28	0
29.1	-12.04	-30.50	-14	1.96	0

29.2	-12.51	-30.97	-14	1.49	0
29.3	-13.12	-31.58	-14	0.88	0
29.4	-13.83	-32.30	-14	0.17	0
29.5	-14.63	-33.09	-14	-0.63	0
29.6	-15.45	-33.92	-14	-1.45	0
29.7	-16.25	-34.72	-14	-2.25	0
29.8	-17.00	-35.46	-14	-3.00	0
29.9	-17.67	-36.13	-14	-3.67	0
30.0	-18.32	-36.78	-14	-4.32	0

2. Maximum cross-polarized EIRP density

4) 14GHz

a) At off-axis angles from $\pm 7^\circ$ range (Tangent)



Model Z10MK4
Frequency 14.00 [GHz]
GSO arc Tangent
EIRPsd Input -18.41 [dBW/4kHz]
Radome Loss 0.5 [dB]

Min input:
 (@all freq.) -18.46

out of spec.

Azimuth [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-22.85	-41.31	-24.40228148	1.55	0
-14.9	-23.20	-41.66	-24.32965671	1.13	0
-14.8	-23.96	-42.42	-24.25654288	0.30	0
-14.7	-25.24	-43.71	-24.18293337	-1.06	0
-14.6	-27.26	-45.72	-24.10882139	-3.15	0
-14.5	-30.49	-48.95	-24.03420006	-6.46	0
-14.4	-36.45	-54.91	-23.9590623	-12.49	0
-14.3	-50.17	-68.64	-23.88340094	-26.29	0
-14.2	-35.47	-53.93	-23.80720861	-11.66	0
-14.1	-30.07	-48.53	-23.73047782	-6.34	0
-14.0	-27.10	-45.56	-23.65320089	-3.44	0
-13.9	-25.28	-43.74	-23.57537001	-1.70	0
-13.8	-24.20	-42.66	-23.49697716	-0.71	0
-13.7	-23.70	-42.16	-23.41801418	-0.28	0
-13.6	-23.70	-42.16	-23.33847271	-0.36	0
-13.5	-24.18	-42.64	-23.25834421	-0.92	0
-13.4	-25.17	-43.64	-23.17761996	-2.00	0
-13.3	-26.73	-45.20	-23.09629102	-3.64	0
-13.2	-28.89	-47.35	-23.01434828	-5.88	0
-13.1	-31.25	-49.71	-22.93178239	-8.32	0
-13.0	-31.99	-50.45	-22.84858381	-9.14	0
-12.9	-30.09	-48.56	-22.76474276	-7.33	0
-12.8	-27.61	-46.07	-22.68024924	-4.93	0
-12.7	-25.58	-44.04	-22.59509302	-2.99	0
-12.6	-24.09	-42.55	-22.50926363	-1.58	0
-12.5	-23.06	-41.52	-22.42275033	-0.63	0
-12.4	-22.40	-40.86	-22.33554213	-0.06	0
-12.3	-22.07	-40.53	-22.24762779	0.18	0
-12.2	-22.03	-40.49	-22.15899577	0.13	0
-12.1	-22.25	-40.72	-22.06963426	-0.19	0
-12.0	-22.74	-41.20	-21.97953115	-0.76	0
-11.9	-23.47	-41.93	-21.88867403	-1.58	0
-11.8	-24.41	-42.87	-21.79705018	-2.61	0
-11.7	-25.49	-43.95	-21.70464654	-3.78	0
-11.6	-26.50	-44.96	-21.61144973	-4.89	0
-11.5	-27.10	-45.56	-21.51744601	-5.58	0
-11.4	-26.97	-45.44	-21.42262128	-5.55	0
-11.3	-26.19	-44.66	-21.32696109	-4.87	0
-11.2	-25.12	-43.58	-21.23045057	-3.89	0
-11.1	-24.06	-42.53	-21.13307447	-2.93	0
-11.0	-23.18	-41.64	-21.03481713	-2.14	0
-10.9	-22.52	-40.98	-20.93566245	-1.58	0

-10.8	-22.10	-40.56	-20.83559389	-1.27	0
-10.7	-21.94	-40.40	-20.73459444	-1.21	0
-10.6	-22.04	-40.50	-20.63264663	-1.41	0
-10.5	-22.42	-40.88	-20.52973248	-1.89	0
-10.4	-23.09	-41.55	-20.42583348	-2.66	0
-10.3	-24.10	-42.56	-20.32093062	-3.77	0
-10.2	-25.48	-43.94	-20.21500429	-5.27	0
-10.1	-27.31	-45.77	-20.10803434	-7.20	0
-10.0	-29.65	-48.11	-20	-9.65	0
-9.9	-32.54	-51.00	-19.89087986	-12.65	0
-9.8	-35.69	-54.16	-19.78065189	-15.91	0
-9.7	-37.61	-56.07	-19.66929336	-17.94	0
-9.6	-36.40	-54.86	-19.55678083	-16.84	0
-9.5	-33.35	-51.81	-19.44309013	-13.91	0
-9.4	-29.94	-48.40	-19.32819634	-10.61	0
-9.3	-26.67	-45.13	-19.21207371	-7.46	0
-9.2	-23.72	-42.18	-19.09469568	-4.63	0
-9.1	-21.16	-39.62	-18.97603481	-2.18	0
-9.0	-18.98	-37.44	-18.85606274	-0.12	0
-8.9	-17.17	-35.63	-18.73475017	1.57	0
-8.8	-15.70	-34.16	-18.6120668	2.92	0
-8.7	-14.54	-33.00	-18.48798132	3.95	0
-8.6	-13.69	-32.15	-18.36246128	4.67	0
-8.5	-13.13	-31.59	-18.23547314	5.10	0
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-8.3	-12.86	-31.32	-17.97695231	5.12	0
-8.2	-13.13	-31.60	-17.84534631	4.71	0
-8.1	-13.67	-32.13	-17.71212547	4.04	0
-8.0	-14.41	-32.88	-17.57724967	3.16	0
-7.9	-15.23	-33.69	-17.44067728	2.21	0
-7.8	-15.84	-34.31	-17.30236507	1.46	0
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-7.6	-15.28	-33.74	-17.02033981	1.74	0
-7.5	-14.23	-32.70	-16.87653158	2.64	0
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0.6	15.03	-3.43			
0.7	16.24	-2.22			
0.8	17.15	-1.32			
0.9	17.81	-0.65			
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1.4	18.55	0.09			
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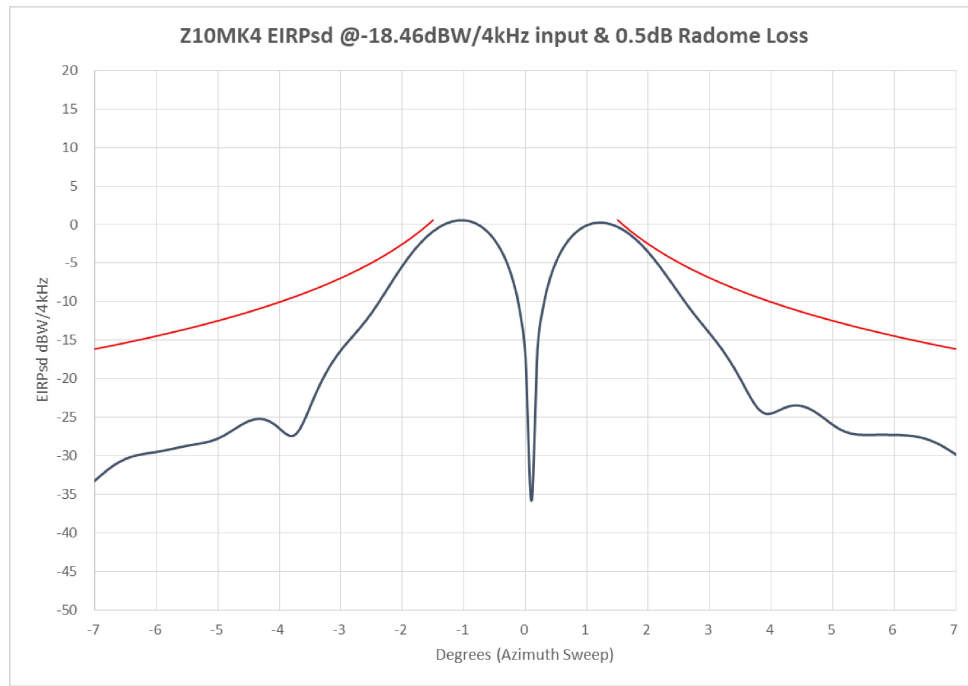
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10.5	-25.96	-44.42	-20.52973248	-5.43	0
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11.5	-27.63	-46.09	-21.51744601	-6.11	0
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11.8	-33.40	-51.87	-21.79705018	-11.61	0
11.9	-32.74	-51.20	-21.88867403	-10.85	0
12.0	-30.64	-49.10	-21.97953115	-8.66	0
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12.5	-25.70	-44.16	-22.42275033	-3.28	0
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12.9	-32.52	-50.98	-22.76474276	-9.75	0
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13.2	-32.41	-50.87	-23.01434828	-9.39	0
13.3	-29.14	-47.60	-23.09629102	-6.04	0
13.4	-26.98	-45.44	-23.17761996	-3.80	0
13.5	-25.59	-44.06	-23.25834421	-2.34	0
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13.7	-24.49	-42.96	-23.41801418	-1.08	0
13.8	-24.62	-43.08	-23.49697716	-1.12	0
13.9	-25.16	-43.62	-23.57537001	-1.58	0
14.0	-26.12	-44.58	-23.65320089	-2.46	0
14.1	-27.50	-45.97	-23.73047782	-3.77	0

14.2	-29.34	-47.80	-23.80720861	-5.53	0
14.3	-31.54	-50.01	-23.88340094	-7.66	0
14.4	-33.67	-52.13	-23.9590623	-9.71	0
14.5	-34.64	-53.10	-24.03420006	-10.60	0
14.6	-33.99	-52.45	-24.10882139	-9.88	0
14.7	-32.74	-51.21	-24.18293337	-8.56	0
14.8	-31.70	-50.17	-24.25654288	-7.45	0
14.9	-31.09	-49.55	-24.32965671	-6.76	0
15.0	-30.90	-49.37	-24.40228148	-6.50	0

6) 14.5GHz

a) At off-axis angles from $\pm 7^\circ$ range (Tangent)



Model Z10MK4
Frequency 14.50 [GHz]
GSO arc Tangent
EIRPsd Input -18.41 [dBW/4kHz]
Radome Loss 0.5 [dB]

Min input:
 (@all freq.) -18.46

out of spec.

Azimuth [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-31.26	-49.72	-24.40228148	-6.86	0
-14.9	-30.42	-48.88	-24.32965671	-6.09	0
-14.8	-29.23	-47.69	-24.25654288	-4.97	0
-14.7	-27.89	-46.35	-24.18293337	-3.71	0
-14.6	-26.62	-45.08	-24.10882139	-2.51	0
-14.5	-25.54	-44.00	-24.03420006	-1.51	0
-14.4	-24.70	-43.17	-23.9590623	-0.74	0
-14.3	-24.12	-42.58	-23.88340094	-0.24	0
-14.2	-23.79	-42.25	-23.80720861	0.02	0
-14.1	-23.70	-42.17	-23.73047782	0.03	0
-14.0	-23.87	-42.33	-23.65320089	-0.22	0
-13.9	-24.31	-42.77	-23.57537001	-0.73	0
-13.8	-25.06	-43.52	-23.49697716	-1.56	0
-13.7	-26.21	-44.67	-23.41801418	-2.79	0
-13.6	-27.92	-46.38	-23.33847271	-4.58	0
-13.5	-30.52	-48.98	-23.25834421	-7.26	0
-13.4	-34.86	-53.32	-23.17761996	-11.68	0
-13.3	-44.54	-63.00	-23.09629102	-21.44	0
-13.2	-41.38	-59.84	-23.01434828	-18.36	0
-13.1	-33.63	-52.10	-22.93178239	-10.70	0
-13.0	-29.86	-48.32	-22.84858381	-7.01	0
-12.9	-27.64	-46.10	-22.76474276	-4.87	0
-12.8	-26.33	-44.79	-22.68024924	-3.65	0
-12.7	-25.69	-44.15	-22.59509302	-3.09	0
-12.6	-25.63	-44.09	-22.50926363	-3.12	0
-12.5	-26.11	-44.57	-22.42275033	-3.69	0
-12.4	-27.15	-45.61	-22.33554213	-4.81	0
-12.3	-28.80	-47.26	-22.24762779	-6.55	0
-12.2	-31.10	-49.56	-22.15899577	-8.94	0
-12.1	-33.84	-52.31	-22.06963426	-11.77	0
-12.0	-35.80	-54.26	-21.97953115	-13.82	0
-11.9	-35.40	-53.87	-21.88867403	-13.52	0
-11.8	-34.03	-52.50	-21.79705018	-12.24	0
-11.7	-33.19	-51.65	-21.70464654	-11.48	0
-11.6	-33.25	-51.71	-21.61144973	-11.64	0
-11.5	-34.37	-52.83	-21.51744601	-12.85	0
-11.4	-36.60	-55.07	-21.42262128	-15.18	0
-11.3	-38.41	-56.88	-21.32696109	-17.09	0
-11.2	-35.69	-54.15	-21.23045057	-14.46	0
-11.1	-31.54	-50.01	-21.13307447	-10.41	0
-11.0	-28.28	-46.74	-21.03481713	-7.24	0
-10.9	-25.84	-44.31	-20.93566245	-4.91	0

-10.8	-24.02	-42.48	-20.83559389	-3.18	0
-10.7	-22.66	-41.12	-20.73459444	-1.92	0
-10.6	-21.66	-40.12	-20.63264663	-1.03	0
-10.5	-20.96	-39.42	-20.52973248	-0.43	0
-10.4	-20.51	-38.97	-20.42583348	-0.09	0
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-10.2	-20.24	-38.70	-20.21500429	-0.03	0
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-10.0	-20.64	-39.10	-20	-0.64	0
-9.9	-21.05	-39.51	-19.89087986	-1.16	0
-9.8	-21.58	-40.04	-19.78065189	-1.80	0
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-9.6	-22.95	-41.42	-19.55678083	-3.40	0
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-9.4	-24.61	-43.07	-19.32819634	-5.28	0
-9.3	-25.43	-43.89	-19.21207371	-6.22	0
-9.2	-26.14	-44.60	-19.09469568	-7.04	0
-9.1	-26.62	-45.08	-18.97603481	-7.65	0
-9.0	-26.78	-45.24	-18.85606274	-7.92	0
-8.9	-26.56	-45.02	-18.73475017	-7.82	0
-8.8	-25.98	-44.44	-18.6120668	-7.36	0
-8.7	-25.10	-43.56	-18.48798132	-6.61	0
-8.6	-24.04	-42.50	-18.36246128	-5.67	0
-8.5	-22.87	-41.34	-18.23547314	-4.64	0
-8.4	-21.71	-40.17	-18.10698215	-3.60	0
-8.3	-20.60	-39.06	-17.97695231	-2.63	0
-8.2	-19.61	-38.08	-17.84534631	-1.77	0
-8.1	-18.77	-37.23	-17.71212547	-1.06	0
-8.0	-18.09	-36.56	-17.57724967	-0.52	0
-7.9	-17.58	-36.04	-17.44067728	-0.14	0
-7.8	-17.23	-35.69	-17.30236507	0.07	0
-7.7	-17.01	-35.48	-17.16226813	0.15	0
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-7.2	-15.98	-34.44	-16.43331241	0.45	0
-7.1	-15.40	-33.87	-16.28145872	0.88	0
-7.0	-14.73	-33.19	-16.127451	1.40	0
-6.9	-14.03	-32.49	-15.97122727	1.94	0
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-6.7	-12.79	-31.25	-15.65187007	2.87	0
-6.6	-12.30	-30.76	-15.48859839	3.19	0
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-0.6	17.41	-1.06			
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0.1	-17.35	-35.82			
0.2	2.61	-15.85			
0.3	8.20	-10.26			
0.4	11.44	-7.02			
0.5	13.64	-4.82			
0.6	15.24	-3.23			
0.7	16.42	-2.04			
0.8	17.30	-1.16			
0.9	17.94	-0.53			
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1.1	18.62	0.16			
1.2	18.72	0.26			
1.3	18.67	0.21			
1.4	18.48	0.02			
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1.6	17.74	-0.73	-0.102999566	17.84	0
1.7	17.18	-1.28	-0.761223034	17.94	0
1.8	16.52	-1.95	-1.381812628	17.90	0
1.9	15.74	-2.72	-1.968840024	17.71	0
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2.1	13.91	-4.55	-3.055482368	16.97	0
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2.4	10.65	-7.81	-4.505281043	15.15	0
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2.6	8.39	-10.07	-5.374333699	13.77	0
2.7	7.32	-11.14	-5.784094104	13.10	0
2.8	6.29	-12.17	-6.178950784	12.47	0
2.9	5.30	-13.16	-6.559949947	11.86	0
3.0	4.33	-14.14	-6.928031368	11.25	0
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3.2	2.26	-16.20	-7.628749458	9.89	0
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3.4	-0.20	-18.66	-8.286972926	8.09	0
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3.6	-3.07	-21.54	-8.907562519	5.83	0
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3.9	-6.06	-24.52	-9.776615176	3.72	0
4.0	-6.05	-24.51	-10.05149978	4.00	0
4.1	-5.73	-24.19	-10.31959642	4.59	0

4.2	-5.36	-23.82	-10.58123226	5.22	0
4.3	-5.09	-23.55	-10.83671139	5.75	0
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4.5	-5.08	-23.54	-11.33031284	6.25	0
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4.8	-6.31	-24.78	-12.03103093	5.72	0
4.9	-6.92	-25.38	-12.254902	5.34	0
5.0	-7.51	-25.97	-12.47425011	4.97	0
5.1	-8.02	-26.49	-12.6892544	4.66	0
5.2	-8.41	-26.87	-12.90008359	4.49	0
5.3	-8.65	-27.12	-13.10689674	4.45	0
5.4	-8.78	-27.24	-13.309844	4.53	0
5.5	-8.82	-27.28	-13.50906724	4.69	0
5.6	-8.82	-27.28	-13.70470068	4.88	0
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5.8	-8.81	-27.27	-14.08569984	5.28	0
5.9	-8.81	-27.27	-14.27130029	5.46	0
6.0	-8.82	-27.28	-14.45378126	5.63	0
6.1	-8.84	-27.30	-14.63324588	5.79	0
6.2	-8.89	-27.35	-14.80979224	5.92	0
6.3	-8.97	-27.43	-14.98351374	6.02	0
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6.6	-9.57	-28.03	-15.48859839	5.92	0
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7.0	-11.35	-29.81	-16.127451	4.78	0
7.1	-11.89	-30.35	-16.28145872	4.40	0
7.2	-12.41	-30.87	-16.43331241	4.03	0
7.3	-12.89	-31.35	-16.5830715	3.69	0
7.4	-13.32	-31.78	-16.73079299	3.41	0
7.5	-13.71	-32.17	-16.87653158	3.17	0
7.6	-14.06	-32.52	-17.02033981	2.96	0
7.7	-14.40	-32.86	-17.16226813	2.77	0
7.8	-14.74	-33.20	-17.30236507	2.56	0
7.9	-15.12	-33.58	-17.44067728	2.33	0
8.0	-15.53	-33.99	-17.57724967	2.05	0
8.1	-15.98	-34.44	-17.71212547	1.73	0
8.2	-16.48	-34.94	-17.84534631	1.37	0
8.3	-17.02	-35.48	-17.97695231	0.96	0
8.4	-17.58	-36.04	-18.10698215	0.53	0
8.5	-18.16	-36.62	-18.23547314	0.08	0
8.6	-18.73	-37.19	-18.36246128	-0.37	0
8.7	-19.28	-37.74	-18.48798132	-0.79	0
8.8	-19.79	-38.25	-18.6120668	-1.18	0
8.9	-20.23	-38.70	-18.73475017	-1.50	0
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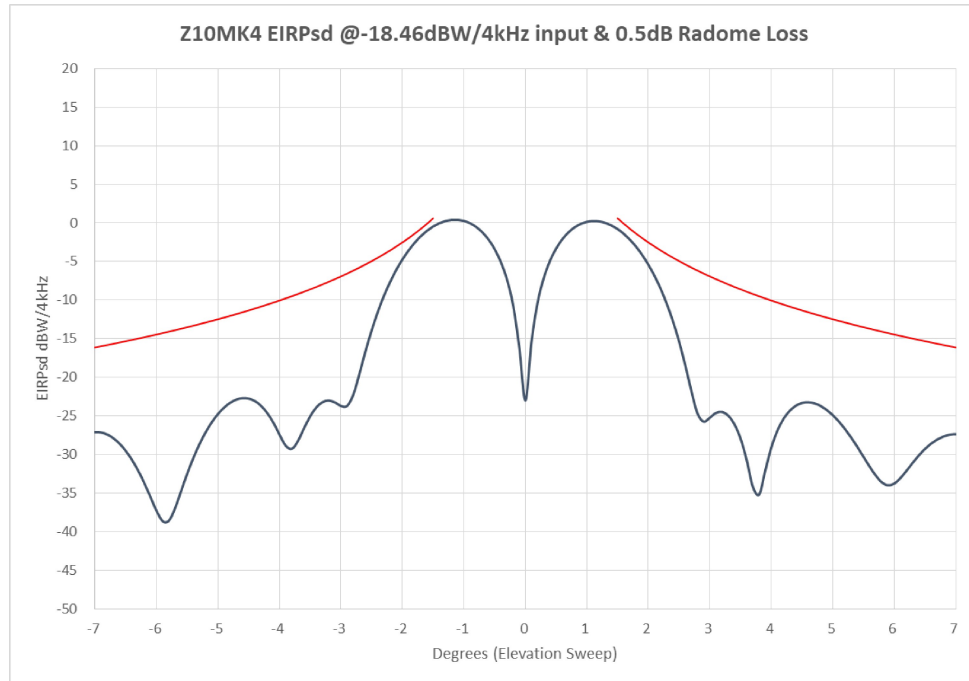
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9.6	-20.25	-38.72	-19.55678083	-0.70	0
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9.9	-19.27	-37.74	-19.89087986	0.62	0
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10.6	-23.33	-41.79	-20.63264663	-2.69	0
10.7	-25.65	-44.11	-20.73459444	-4.91	0
10.8	-28.84	-47.30	-20.83559389	-8.00	0
10.9	-32.43	-50.89	-20.93566245	-11.50	0
11.0	-32.68	-51.14	-21.03481713	-11.64	0
11.1	-29.65	-48.11	-21.13307447	-8.52	0
11.2	-27.08	-45.54	-21.23045057	-5.85	0
11.3	-25.41	-43.87	-21.32696109	-4.08	0
11.4	-24.45	-42.91	-21.42262128	-3.03	0
11.5	-24.07	-42.53	-21.51744601	-2.55	0
11.6	-24.16	-42.62	-21.61144973	-2.55	0
11.7	-24.67	-43.13	-21.70464654	-2.96	0
11.8	-25.57	-44.03	-21.79705018	-3.77	0
11.9	-26.81	-45.28	-21.88867403	-4.92	0
12.0	-28.36	-46.82	-21.97953115	-6.38	0
12.1	-30.12	-48.58	-22.06963426	-8.05	0
12.2	-31.93	-50.39	-22.15899577	-9.77	0
12.3	-33.52	-51.98	-22.24762779	-11.27	0
12.4	-34.59	-53.05	-22.33554213	-12.25	0
12.5	-34.89	-53.36	-22.42275033	-12.47	0
12.6	-34.46	-52.92	-22.50926363	-11.95	0
12.7	-33.53	-52.00	-22.59509302	-10.94	0
12.8	-32.44	-50.90	-22.68024924	-9.76	0
12.9	-31.42	-49.88	-22.76474276	-8.65	0
13.0	-30.62	-49.08	-22.84858381	-7.77	0
13.1	-30.11	-48.58	-22.93178239	-7.18	0
13.2	-29.95	-48.41	-23.01434828	-6.94	0
13.3	-30.16	-48.62	-23.09629102	-7.06	0
13.4	-30.74	-49.20	-23.17761996	-7.57	0
13.5	-31.71	-50.17	-23.25834421	-8.45	0
13.6	-32.95	-51.42	-23.33847271	-9.62	0
13.7	-34.06	-52.52	-23.41801418	-10.64	0
13.8	-34.15	-52.61	-23.49697716	-10.65	0
13.9	-32.86	-51.32	-23.57537001	-9.28	0
14.0	-30.96	-49.43	-23.65320089	-7.31	0
14.1	-29.17	-47.64	-23.73047782	-5.44	0

14.2	-27.74	-46.20	-23.80720861	-3.93	0
14.3	-26.71	-45.17	-23.88340094	-2.83	0
14.4	-26.08	-44.55	-23.9590623	-2.12	0
14.5	-25.86	-44.32	-24.03420006	-1.83	0
14.6	-26.06	-44.53	-24.10882139	-1.95	0
14.7	-26.73	-45.19	-24.18293337	-2.54	0
14.8	-27.94	-46.40	-24.25654288	-3.68	0
14.9	-29.86	-48.32	-24.32965671	-5.53	0
15.0	-32.83	-51.29	-24.40228148	-8.42	0

2. Maximum cross-polarized EIRP density

4) 14GHz

b) At off-axis angles from $\pm 7^\circ$ range (Perpendicular)



Model Z10MK4
Frequency 14.00 [GHz]
GSO arc Perpendicular
EIRPsd Input -18.41 [dBW/4kHz]
Radome Loss 0.5 [dB]

Min input:
 (@all freq.) -18.46

out of spec.

Elevation [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-24.80	-43.26	-24.40228148	-0.40	0
-14.9	-26.01	-44.47	-24.32965671	-1.68	0
-14.8	-27.52	-45.98	-24.25654288	-3.26	0
-14.7	-29.32	-47.78	-24.18293337	-5.14	0
-14.6	-31.40	-49.86	-24.10882139	-7.29	0
-14.5	-33.66	-52.12	-24.03420006	-9.63	0
-14.4	-35.89	-54.35	-23.9590623	-11.93	0
-14.3	-37.65	-56.11	-23.88340094	-13.77	0
-14.2	-38.53	-57.00	-23.80720861	-14.73	0
-14.1	-38.38	-56.84	-23.73047782	-14.65	0
-14.0	-37.30	-55.76	-23.65320089	-13.64	0
-13.9	-35.54	-54.00	-23.57537001	-11.96	0
-13.8	-33.49	-51.95	-23.49697716	-9.99	0
-13.7	-31.47	-49.93	-23.41801418	-8.05	0
-13.6	-29.65	-48.11	-23.33847271	-6.31	0
-13.5	-28.12	-46.58	-23.25834421	-4.86	0
-13.4	-26.89	-45.35	-23.17761996	-3.71	0
-13.3	-25.97	-44.43	-23.09629102	-2.87	0
-13.2	-25.34	-43.80	-23.01434828	-2.33	0
-13.1	-25.00	-43.46	-22.93178239	-2.06	0
-13.0	-24.92	-43.38	-22.84858381	-2.07	0
-12.9	-25.08	-43.54	-22.76474276	-2.31	0
-12.8	-25.43	-43.90	-22.68024924	-2.75	0
-12.7	-25.92	-44.38	-22.59509302	-3.32	0
-12.6	-26.44	-44.90	-22.50926363	-3.93	0
-12.5	-26.89	-45.35	-22.42275033	-4.46	0
-12.4	-27.21	-45.67	-22.33554213	-4.87	0
-12.3	-27.41	-45.87	-22.24762779	-5.16	0
-12.2	-27.58	-46.04	-22.15899577	-5.42	0
-12.1	-27.77	-46.23	-22.06963426	-5.70	0
-12.0	-27.97	-46.43	-21.97953115	-5.99	0
-11.9	-28.00	-46.46	-21.88867403	-6.11	0
-11.8	-27.60	-46.06	-21.79705018	-5.81	0
-11.7	-26.65	-45.11	-21.70464654	-4.95	0
-11.6	-25.31	-43.78	-21.61144973	-3.70	0
-11.5	-23.89	-42.35	-21.51744601	-2.37	0
-11.4	-22.60	-41.06	-21.42262128	-1.18	0
-11.3	-21.54	-40.00	-21.32696109	-0.22	0
-11.2	-20.76	-39.22	-21.23045057	0.48	0
-11.1	-20.24	-38.71	-21.13307447	0.89	0
-11.0	-20.00	-38.46	-21.03481713	1.04	0
-10.9	-20.01	-38.47	-20.93566245	0.93	0

-10.8	-20.24	-38.70	-20.83559389	0.60	0
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-0.9	18.42	-0.05			

-0.8	17.93	-0.53			
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-0.3	11.12	-7.34			
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-0.1	2.37	-16.09			
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0.3	11.36	-7.10			
0.4	13.55	-4.91			
0.5	15.15	-3.31			
0.6	16.34	-2.12			
0.7	17.24	-1.23			
0.8	17.89	-0.57			
0.9	18.33	-0.13			
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1.2	18.66	0.20			
1.3	18.47	0.00			
1.4	18.14	-0.33			
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3.9	-13.70	-32.16	-9.776615176	-3.92	0
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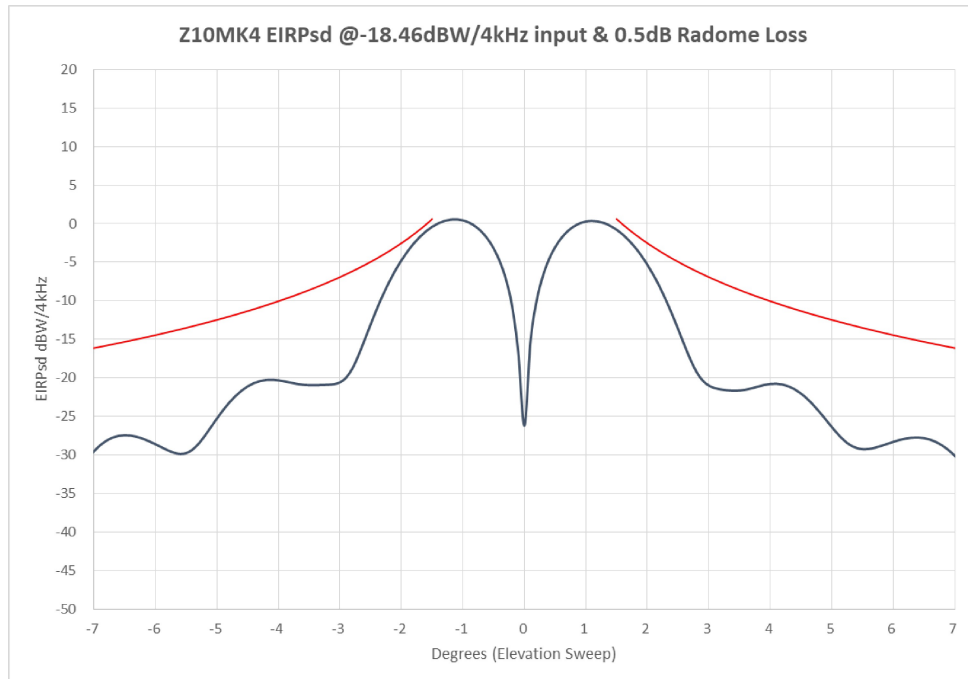
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10.4	-20.94	-39.41	-20.42583348	-0.52	0
10.5	-20.41	-38.87	-20.52973248	0.12	0
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10.7	-19.63	-38.10	-20.73459444	1.10	0
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12.9	-31.05	-49.51	-22.76474276	-8.28	0
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13.1	-33.81	-52.27	-22.93178239	-10.88	0
13.2	-34.51	-52.97	-23.01434828	-11.49	0
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13.5	-31.94	-50.40	-23.25834421	-8.68	0
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13.8	-30.01	-48.48	-23.49697716	-6.52	0
13.9	-30.13	-48.59	-23.57537001	-6.55	0
14.0	-30.67	-49.14	-23.65320089	-7.02	0
14.1	-31.71	-50.17	-23.73047782	-7.98	0

14.2	-33.26	-51.72	-23.80720861	-9.45	0
14.3	-35.14	-53.60	-23.88340094	-11.25	0
14.4	-36.33	-54.79	-23.9590623	-12.37	0
14.5	-35.40	-53.86	-24.03420006	-11.37	0
14.6	-33.20	-51.67	-24.10882139	-9.09	0
14.7	-31.13	-49.59	-24.18293337	-6.94	0
14.8	-29.56	-48.02	-24.25654288	-5.30	0
14.9	-28.50	-46.96	-24.32965671	-4.17	0
15.0	-27.91	-46.37	-24.40228148	-3.51	0

6) 14.5GHz

b) At off-axis angles from $\pm 7^\circ$ range (Perpendicular)



Model Z10MK4
Frequency 14.50 [GHz]
GSO arc Perpendicular
EIRPsd Input -18.41 [dBW/4kHz]
Radome Loss 0.5 [dB]

Min input:
 (@all freq.) -18.46

out of spec.

Elevation [°]	Cross-Pol. (dBi)	EIRPsd	Envelope (CrP) [dBW/4kHz]		0
-15.0	-42.09	-60.56	-24.40228148	-17.69	0
-14.9	-41.72	-60.18	-24.32965671	-17.39	0
-14.8	-42.88	-61.34	-24.25654288	-18.62	0
-14.7	-41.07	-59.54	-24.18293337	-16.89	0
-14.6	-36.17	-54.63	-24.10882139	-12.06	0
-14.5	-32.05	-50.51	-24.03420006	-8.01	0
-14.4	-29.03	-47.49	-23.9590623	-5.07	0
-14.3	-26.86	-45.32	-23.88340094	-2.97	0
-14.2	-25.33	-43.79	-23.80720861	-1.52	0
-14.1	-24.32	-42.78	-23.73047782	-0.59	0
-14.0	-23.74	-42.20	-23.65320089	-0.09	0
-13.9	-23.53	-41.99	-23.57537001	0.04	0
-13.8	-23.60	-42.06	-23.49697716	-0.11	0
-13.7	-23.84	-42.30	-23.41801418	-0.42	0
-13.6	-24.09	-42.55	-23.33847271	-0.75	0
-13.5	-24.15	-42.61	-23.25834421	-0.89	0
-13.4	-23.93	-42.39	-23.17761996	-0.75	0
-13.3	-23.46	-41.93	-23.09629102	-0.37	0
-13.2	-22.91	-41.38	-23.01434828	0.10	0
-13.1	-22.43	-40.89	-22.93178239	0.50	0
-13.0	-22.12	-40.58	-22.84858381	0.73	0
-12.9	-22.03	-40.49	-22.76474276	0.74	0
-12.8	-22.18	-40.64	-22.68024924	0.50	0
-12.7	-22.56	-41.03	-22.59509302	0.03	0
-12.6	-23.15	-41.61	-22.50926363	-0.64	0
-12.5	-23.89	-42.35	-22.42275033	-1.47	0
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