

**Table. Spherical coordinates of the exact positions of the POL units on the dome.**

ID ( $i$ )	$\theta^i$	$\phi^i$	ID ( $i$ )	$\theta^i$	$\phi^i$	ID ( $i$ )	$\theta^i$	$\phi^i$
1	5.13	45.00	21	15.39	-105.00	41	25.65	9.00
2	5.13	135.00	22	15.39	-75.00	42	25.65	27.00
3	5.13	-135.00	23	15.39	-45.00	43	25.65	45.00
4	5.13	-45.00	24	15.39	-15.00	44	25.65	63.00
5	10.26	22.50	25	20.52	11.25	45	25.65	81.00
6	10.26	67.50	26	20.52	33.75	46	25.65	99.00
7	10.26	112.50	27	20.52	56.25	47	25.65	117.00
8	10.26	157.50	28	20.52	78.75	48	25.65	135.00
9	10.26	-157.50	29	20.52	101.25	49	25.65	153.00
10	10.26	-112.50	30	20.52	123.75	50	25.65	171.00
11	10.26	-67.50	31	20.52	146.25	51	25.65	-171.00
12	10.26	-22.50	32	20.52	168.75	52	25.65	-153.00
13	15.39	15.00	33	20.52	-168.75	53	25.65	-135.00
14	15.39	45.00	34	20.52	-146.25	54	25.65	-117.00
15	15.39	75.00	35	20.52	-123.75	55	25.65	-99.00
16	15.39	105.00	36	20.52	-101.25	56	25.65	-81.00
17	15.39	135.00	37	20.52	-78.75	57	25.65	-63.00
18	15.39	165.00	38	20.52	-56.25	58	25.65	-45.00
19	15.39	-165.00	39	20.52	-33.75	59	25.65	-27.00
20	15.39	-135.00	40	20.52	-11.25	60	25.65	-9.00

ID ( $i$ ), the identity of the POL unit referring to the figures of the main text;  $\theta^i$ , the zenith distance of the  $i^{\text{th}}$  unit;  $\phi^i$ , the azimuth of the  $i^{\text{th}}$  unit.