

FIG. 1

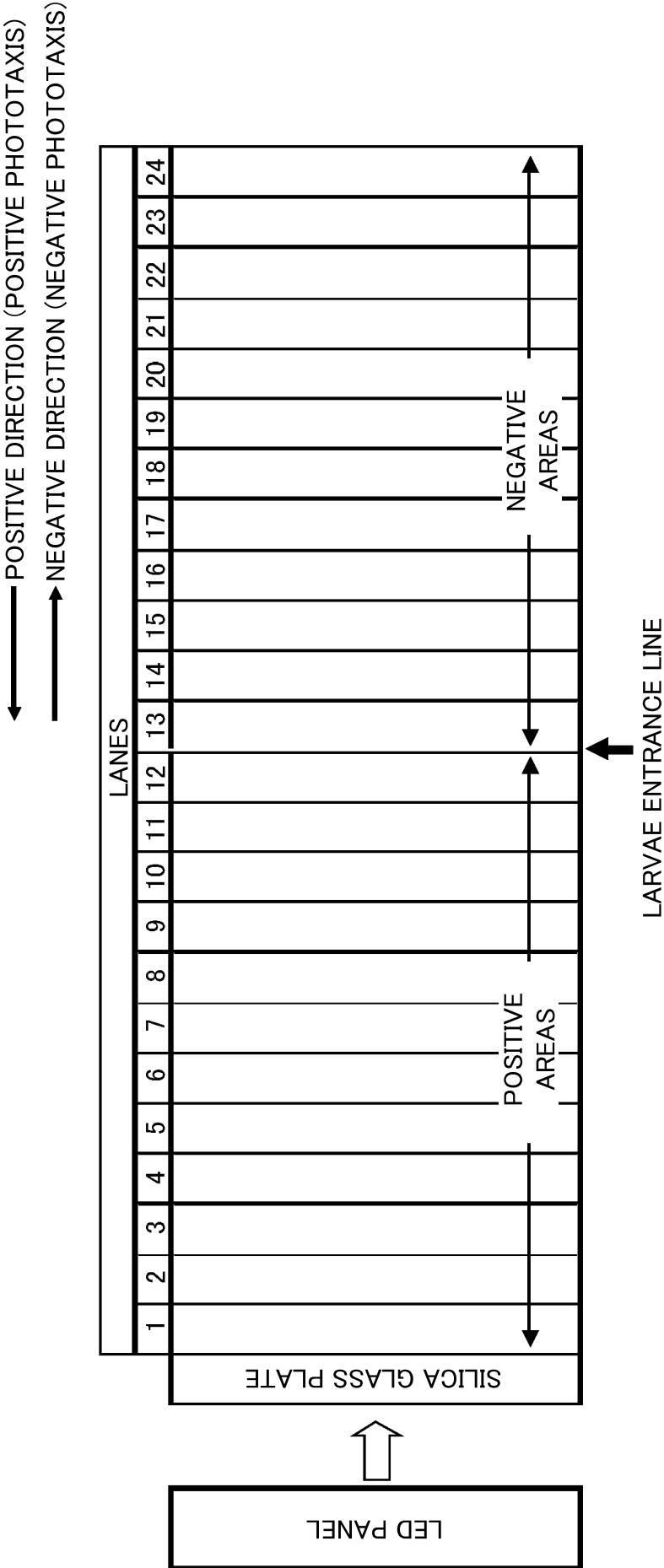


FIG. 2A

PROJECTION LIGHT (PEAK WAVELENGTH: 562 – 582 nm)																								
IRRADIANCE: 100 W m ⁻²																								
LARVAE	LANES																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
No.1	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.2	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.3	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.4	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.5	●	←	-----	-----	-----	-----	-----	①	←	-----	-----	-----												
No.6	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.7	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.8	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.9	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.10	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.11	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.12	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.13	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.14	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.15	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.16	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.17	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.18	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.19	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.20	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.21	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.22	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.23	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.24	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.25	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.26	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.27	①	→	●	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.28	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.29	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												
No.30	●	←	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----												

FIG. 2B

LED SPECTRUM: 515 – 535 nm																								
IRRADIANCE: 100 W m ⁻²																								
LARVAE	LANES																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
No.31	●	←	---	---	---	---	---	---	---	---	---	---												
No.32	●	←	---	---	---	---	---	---	---	---	---	---												
No.33	●	←	---	---	---	---	---	---	---	---	---	---												
No.34	●	←	---	---	---	---	---	---	---	---	---	---												
No.35	●	←	---	---	---	---	---	---	---	---	---	---												
No.36	●	←	---	---	---	---	---	---	---	---	---	①												
No.37	●	←	---	---	---	---	---	①	←	---	---	---												
No.38	●	←	---	---	---	---	---	---	---	---	---	---												
No.39	●	←	---	---	---	②	←	①	←	---	---	---												
No.40	●	←	---	---	---	---	---	---	---	---	---	---												
No.41	●	←	---	---	---	---	---	---	---	---	---	---												
No.42	●	←	---	---	---	---	---	---	---	---	---	---												
No.43	●	←	---	---	---	---	---	---	---	---	---	---												
No.44	●	←	---	---	---	---	---	---	---	---	---	---												
No.45	●	←	---	---	---	---	---	---	---	---	---	---												
No.46	●	←	---	---	---	---	---	---	---	---	---	---												
No.47	●	←	---	---	---	---	---	---	---	---	---	---												
No.48	●	←	---	---	---	---	---	---	---	---	---	---												
No.49	●	←	---	---	---	---	---	---	---	---	---	---												
No.50	●	←	---	---	---	---	---	---	---	---	---	---												

FIG. 2C

LED SPECTRUM: 460 – 480 nm																								
IRRADIANCE: 100 W m ⁻²																								
LARVAE	LANES																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
No.51	●	←	---	---	---	---	---	---	---	---	---	---												
No.52	●	←	---	---	---	---	---	---	---	---	---	---												
No.53	●	←	---	---	---	---	---	---	---	---	---	---												
No.54	●	←	---	---	---	②	←	①	←	---	---	---												
No.55	●	←	---	---	---	---	---	---	---	---	---	---												
No.56	●	←	---	---	---	---	---	---	---	---	---	---												
No.57	●	←	---	---	---	---	---	---	---	---	---	---												
No.58	●	←	---	---	---	---	---	---	---	---	---	---												
No.59	●	←	---	---	---	---	---	---	---	---	①	←												
No.60	●	←	---	---	---	---	---	---	---	---	---	---												
No.61	●	←	---	---	---	---	---	---	---	---	---	---												
No.62	●	←	---	---	---	---	---	---	---	---	---	---												
No.63	●	←	---	---	---	---	---	②	←	---	①	←												
No.64	●	←	---	---	---	---	---	---	---	---	---	---												
No.65	●	←	---	---	---	---	---	---	---	---	---	---												
No.66	●	←	---	---	---	---	---	---	---	---	---	---												
No.67	●	←	---	---	---	---	---	---	---	---	---	---												
No.68	●	←	---	---	---	---	---	---	---	---	---	---												
No.69	●	←	---	---	---	---	---	---	---	---	---	---												
No.70	●	←	---	---	---	---	---	---	---	---	---	---												

FIG. 2D

LED SPECTRUM: 440 – 460 nm																								
IRRADIANCE: 100 W m ⁻²																								
LARVAE	LANES																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
No.71	●	←	---	---	---	---	---	---	---	---	---	---												
No.72	●	←	---	---	---	---	---	①	←	---	---	---												
No.73	●	←	---	---	---	---	---	---	---	---	①	←												
No.74	●	←	---	---	---	---	---	---	---	---	---	---												
No.75	●	←	---	---	---	---	---	---	---	---	---	---												
No.76	●	←	---	---	---	---	---	---	---	---	---	---												
No.77	●	←	---	---	---	---	---	---	---	---	---	---												
No.78	●	←	---	---	---	---	③	←	①	←	②	---												
No.79	●	←	---	---	---	---	---	---	---	---	---	---												
No.80	①	←	●	---	---	---	---	---	---	---	---	---												
No.81	●	←	---	---	---	---	---	---	---	---	---	---												
No.82	●	←	---	---	---	---	---	①	←	---	---	---												
No.83	●	←	---	---	---	---	---	---	---	---	---	---												
No.84	●	←	---	---	---	---	---	---	---	---	---	---												
No.85	●	←	---	---	---	---	---	---	---	---	---	---												
No.86	●	←	---	---	---	---	---	---	---	---	---	---												
No.87	●	←	---	---	---	---	---	---	---	---	---	---												
No.88	●	←	---	---	---	---	---	---	---	---	---	---												
No.89	●	←	---	---	---	---	---	---	---	---	---	---												
No.90	●	←	---	---	---	---	---	---	---	---	---	---												

FIG. 2E

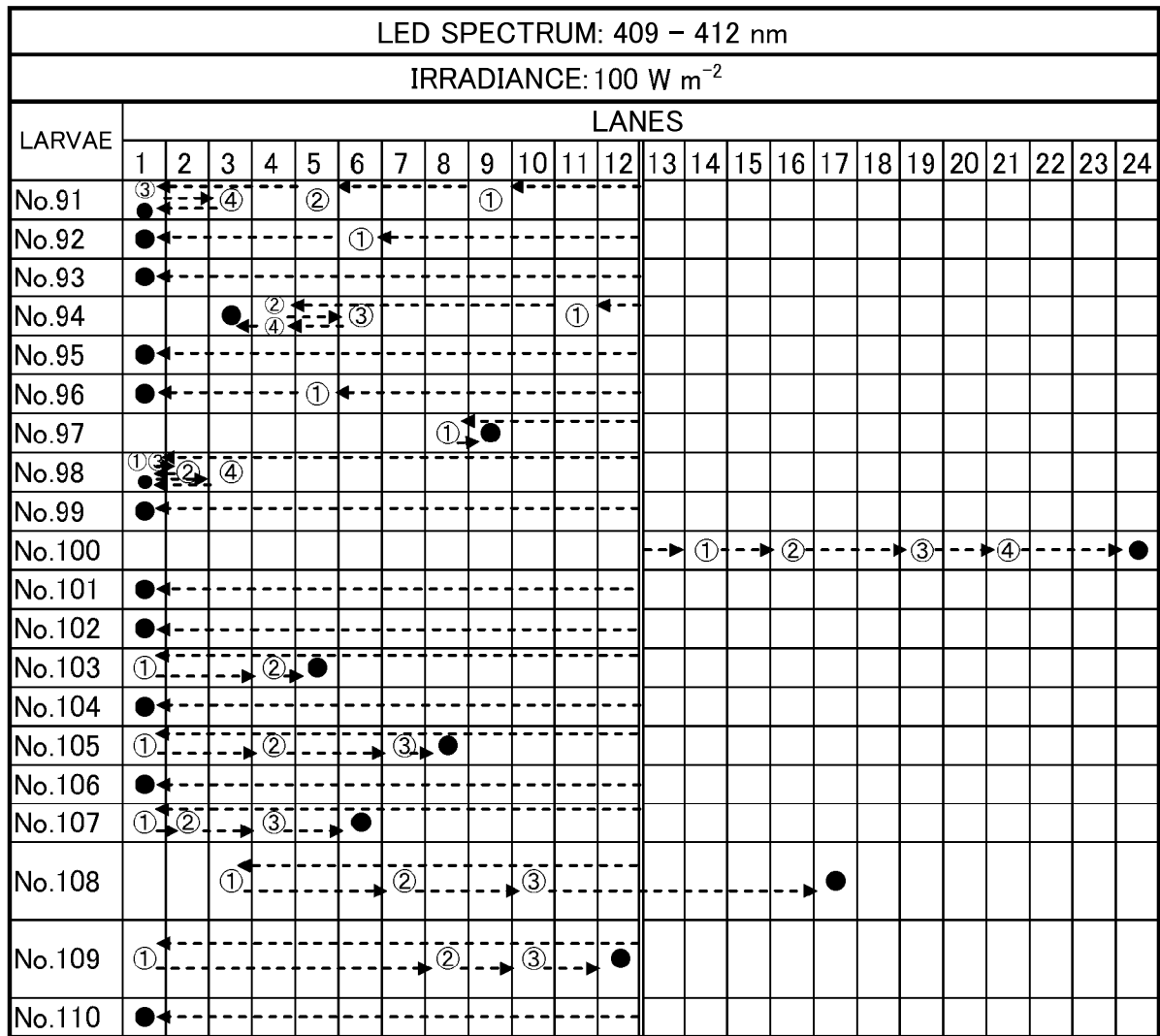


FIG. 2F

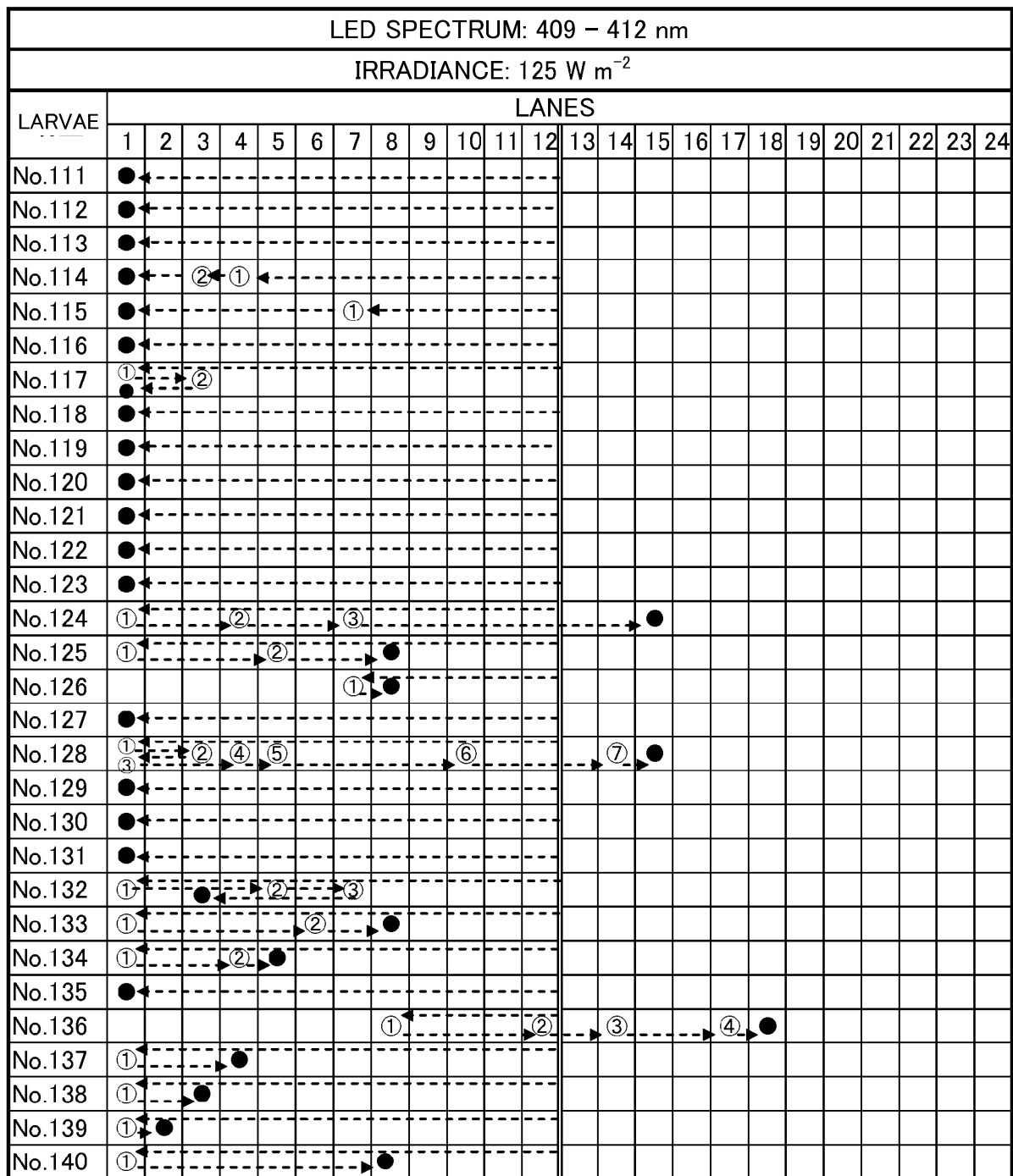


FIG. 2G

LED SPECTRUM: 370 – 380 nm																								
IRRADIANCE: 20 W m ⁻²																								
LARVAE	LANES																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
No.141	①	→	②	→	③	→	④	→	●															
No.142	●	←																						
No.143	●	←																						
No.144	①	→		②	→	③	→									④	→							●
No.145	●	←																						
No.146	①	→		②	→	④	→	③	→															
No.147	●	←	③	→	④	→		②	←	①	→													●
No.148	●	←																						
No.149	●	←																						
No.150	●	←																						
No.151	●	←																						
No.152	●	←			①	→	②	→																
No.153	①	→			●																			
No.154	●	←																						
No.155	①	→		②	→	③	→																	
No.156	①	→	②	→	③	→																		●
No.157	①	→		②	→							●												
No.158	①③	→	②	→	④	→																		
No.159	●	←																						
No.160	●	←																						

FIG. 3A

PROJECTION LIGHT (PEAK WAVELENGTH: 562 – 582 nm)																								
IRRADIANCE: 100 W m ⁻²																								
LARVAE	LANES																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
No.1	●	←	---	---	---	---	---	---	---	---	---	---												
No.2	●	←	---	---	---	---	---	---	---	---	---	---												
No.3	●	←	---	---	---	---	---	---	---	---	---	---												
No.4	●	←	---	---	---	---	---	---	---	---	---	---												
No.5	●	←	---	---	---	---	---	---	---	---	---	---												
No.6	●	←	---	---	---	---	---	---	---	---	---	---												
No.7	●	←	---	---	---	---	---	①	←	---	---	---												
No.8	●	←	---	---	---	---	---	---	---	---	---	---												
No.9	●	←	---	---	---	---	---	---	---	①	←	---												
No.10	●	←	---	---	---	---	---	---	---	---	---	---												
No.11	①	←	●	---	---	---	---	---	---	---	---	---												
No.12	●	←	---	---	---	---	---	---	---	---	---	---												
No.13	●	←	---	---	---	---	---	---	---	---	---	---												
No.14	●	←	---	---	---	---	---	---	---	---	---	---												
No.15	●	←	---	---	---	---	---	---	---	---	---	---												
No.16	●	←	---	---	---	---	---	①	←	---	---	---												
No.17	●	←	---	---	---	---	---	---	---	---	---	---												
No.18	●	←	---	---	---	---	---	---	---	---	---	---												
No.19	●	←	---	---	---	---	---	---	---	---	---	---												
No.20	●	←	---	---	---	---	---	---	---	---	---	---												
No.21	●	←	---	---	---	---	---	---	---	---	---	---												
No.22	●	←	---	---	---	---	---	---	---	①	←	---												
No.23	●	←	---	---	---	---	---	---	---	---	---	---												
No.24	●	←	---	---	---	---	---	---	---	---	---	---												
No.25	●	←	---	---	---	---	---	---	---	---	---	---												
No.26	●	←	---	---	---	---	---	---	---	---	---	---												
No.27	●	←	---	---	---	---	---	---	---	---	---	---												
No.28	●	←	---	---	---	---	---	---	---	---	---	---												
No.29	●	←	---	---	---	---	---	---	---	---	---	---												
No.30	●	←	---	---	---	---	---	---	---	---	---	---												

FIG. 3B

LED SPECTRUM: 515 – 535 nm																								
IRRADIANCE: 100 W m ⁻²																								
LARVAE	LANES																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
No.31	●	←	---	---	---	---	---	---	---	---	---	---												
No.32	●	←	---	---	---	---	---	---	---	---	---	---												
No.33	●	←	---	---	---	---	---	---	---	---	---	---												
No.34	●	←	---	---	---	---	---	---	---	---	---	---												
No.35	●	←	---	---	---	---	---	---	---	---	---	---												
No.36	●	←	---	---	---	---	---	---	---	---	---	---												
No.37	●	←	---	---	---	---	---	---	---	---	---	---												
No.38	●	←	---	---	---	---	---	---	---	---	---	---												
No.39	●	←	---	---	---	---	---	---	---	---	---	---												
No.40	●	←	---	---	---	---	---	---	---	---	---	---												
No.41	●	←	---	---	---	---	---	---	---	---	---	---												
No.42							●	←	---	---	---	---												
No.43					●	←	---	---	---	---	---	---												
No.44	①	←	---	●	←	---	---	---	---	---	---	---												
No.45	①	←	●	←	---	---	---	---	---	---	---	---												
No.46	●	←	---	---	---	---	---	---	---	---	---	---												
No.47	●	←	---	---	---	---	---	---	---	---	---	---												
No.48	●	←	---	---	---	---	---	---	---	---	---	---												
No.49	●	←	---	---	---	---	---	---	---	---	---	---												
No.50	●	←	---	---	---	---	---	---	---	---	---	---												
No.51	●	←	---	---	---	---	---	---	---	---	---	---												
No.52	●	←	---	---	---	---	---	---	---	---	---	---												
No.53	●	←	---	---	---	---	---	---	---	---	---	---												
No.54	●	←	---	---	---	---	---	---	---	---	---	---												
No.55	●	←	---	---	---	---	---	---	---	---	---	---												
No.56	●	←	---	---	---	---	---	---	---	---	---	---												
No.57	●	←	---	---	---	---	---	---	---	---	---	---												
No.58	●	←	---	---	---	---	---	---	---	---	---	---												
No.59	●	←	---	---	---	---	---	---	---	---	---	---												
No.60	●	←	---	---	---	---	---	---	---	---	---	---												

FIG. 3C

LED SPECTRUM: 460 – 480 nm																								
IRRADIANCE: 100 W m ⁻²																								
LARVAE	LANES																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
No.61						●	←	-----																
No.62						●	←	-----																
No.63					●	←	-----																	
No.64		●	←	-----																				
No.65	●	←	-----																					
No.66	●	←	-----																					
No.67	●	←	-----																					
No.68	●	←	-----																					
No.69	●	←	-----																					
No.70	●	←	-----																					
No.71	●	←	-----																					
No.72	●	←	-----																					
No.73	●	←	-----																					
No.74	●	←	-----																					
No.75	●	←	-----																					
No.76	●	←	-----																					
No.77	●	←	-----																					
No.78	●	←	-----																					
No.79	●	←	-----																					
No.80	●	←	-----																					
No.81	●	←	-----																					
No.82	●	←	-----																					
No.83	●	←	-----																					
No.84	●	←	-----																					
No.85	●	←	-----																					
No.86	●	←	-----																					
No.87	●	←	-----																					
No.88	●	←	-----																					
No.89	●	←	-----																					
No.90	●	←	-----																					

FIG. 3D

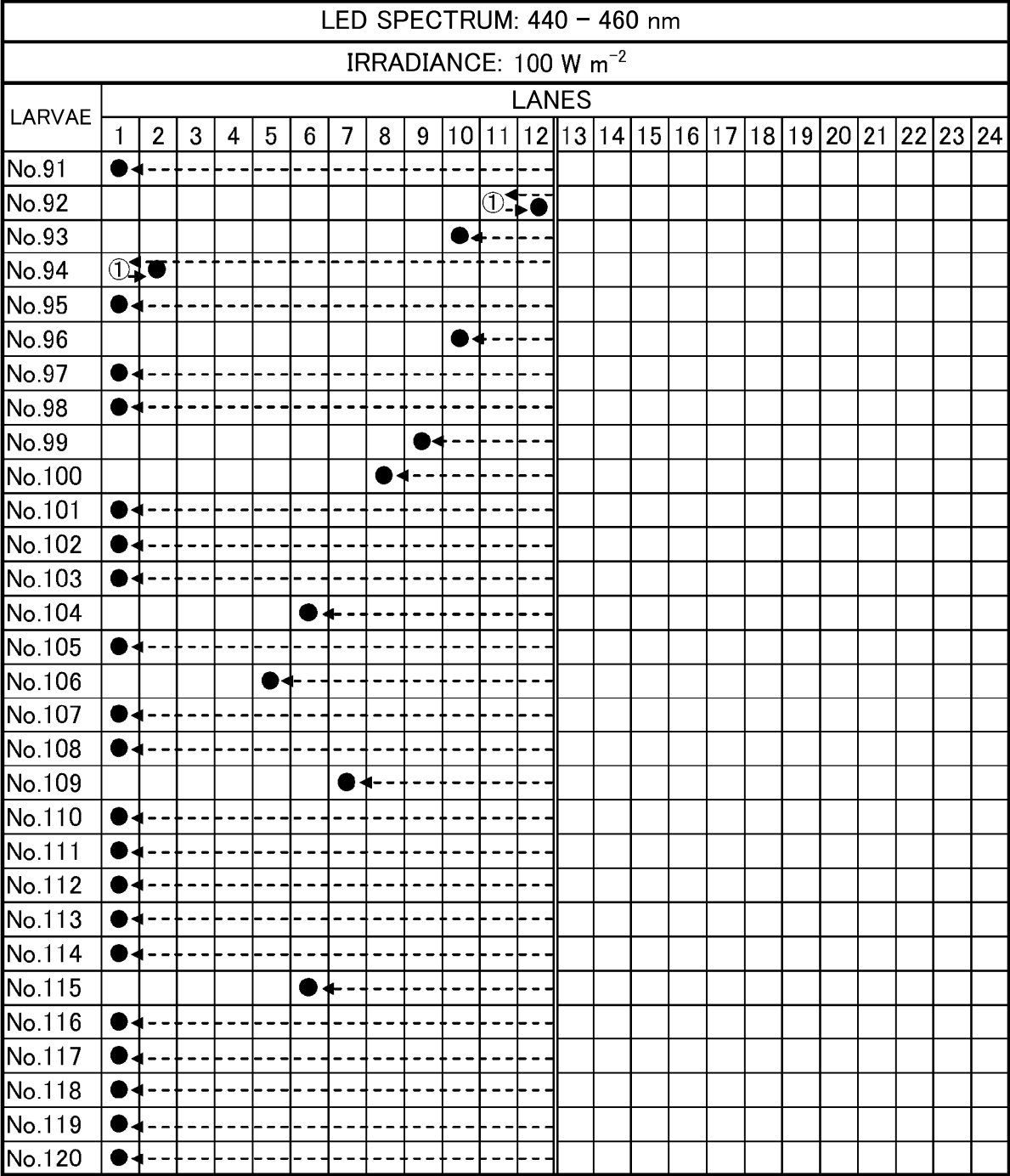


FIG. 3E

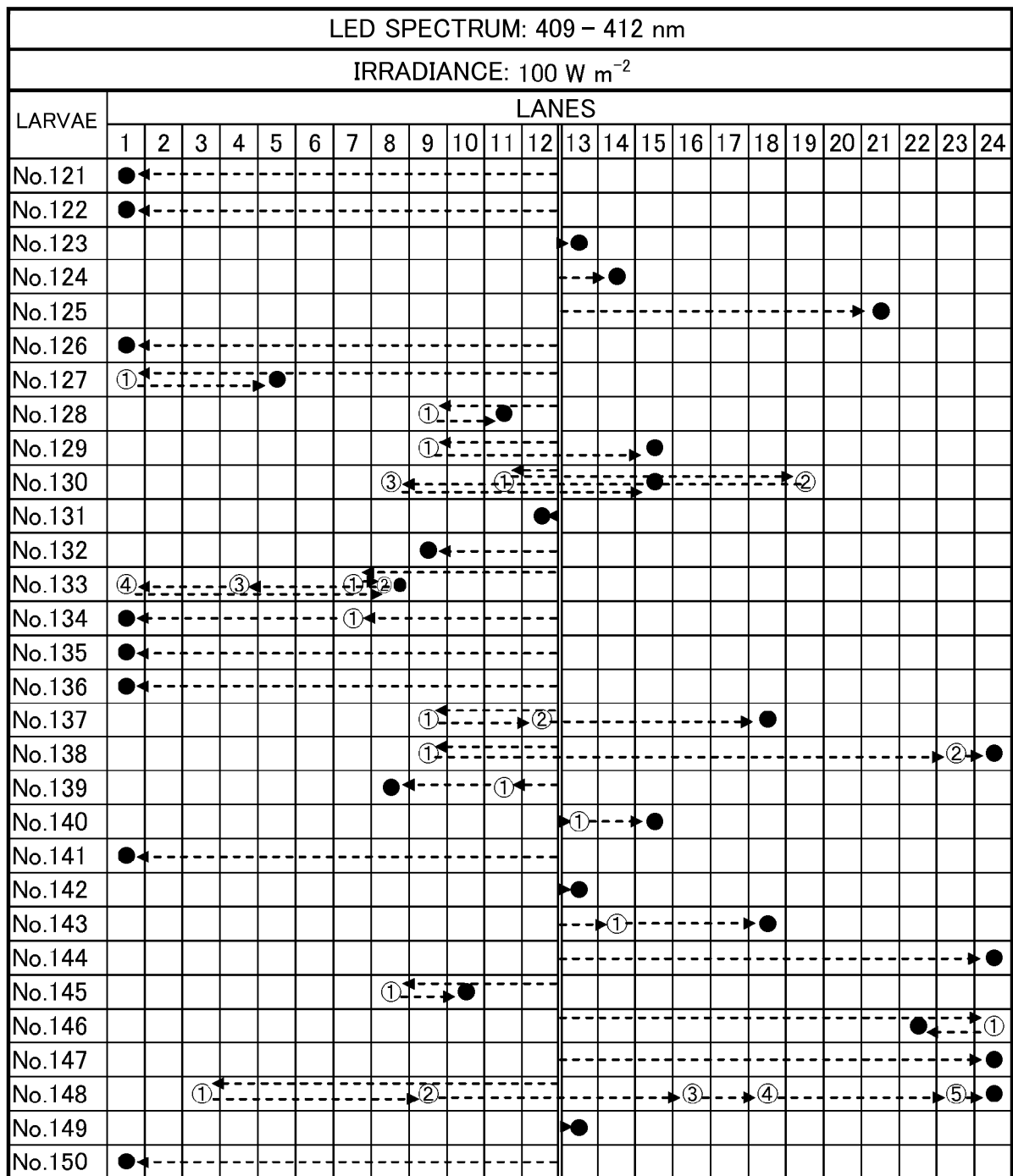


FIG. 3F

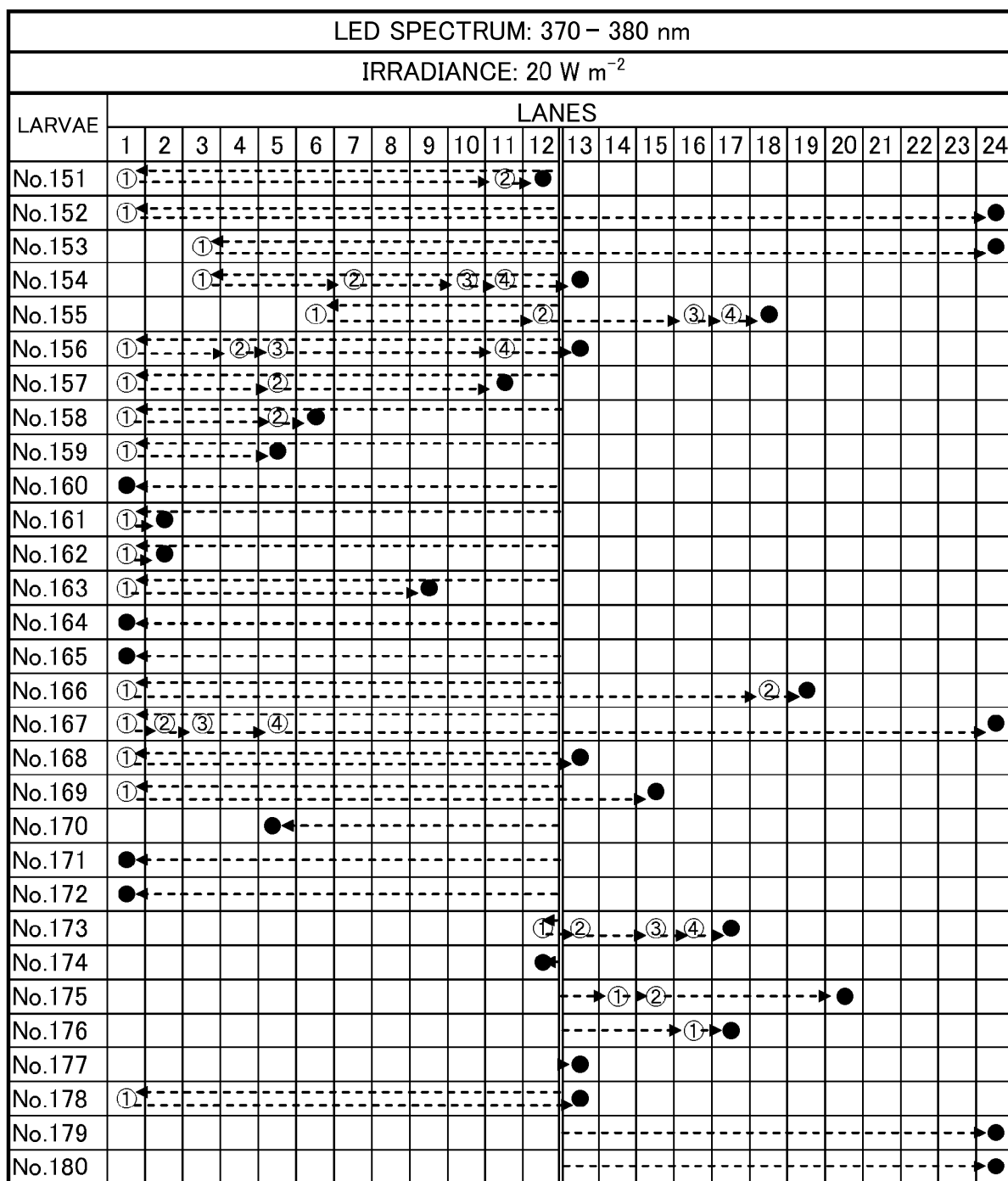


FIG. 4A

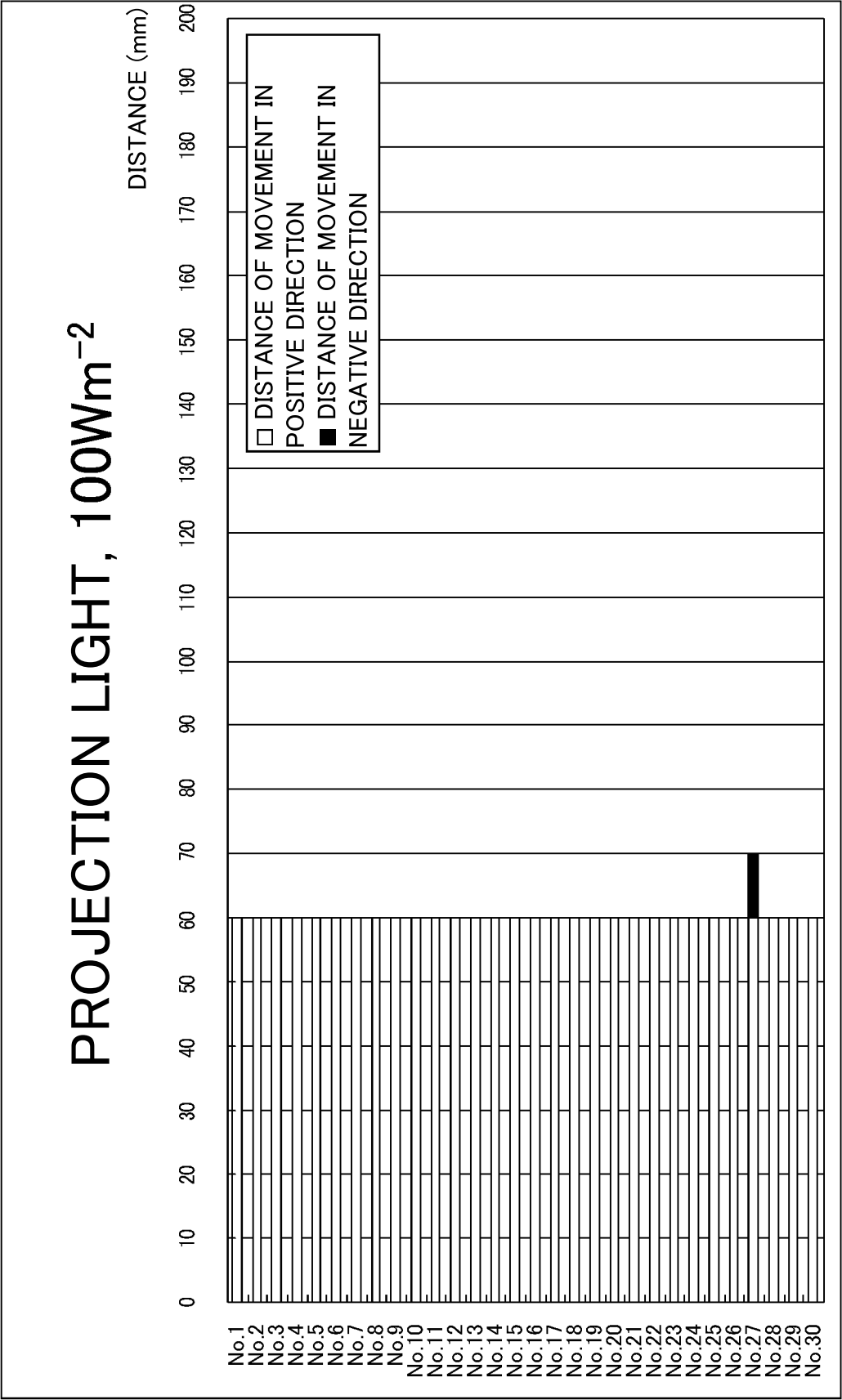


FIG. 4B

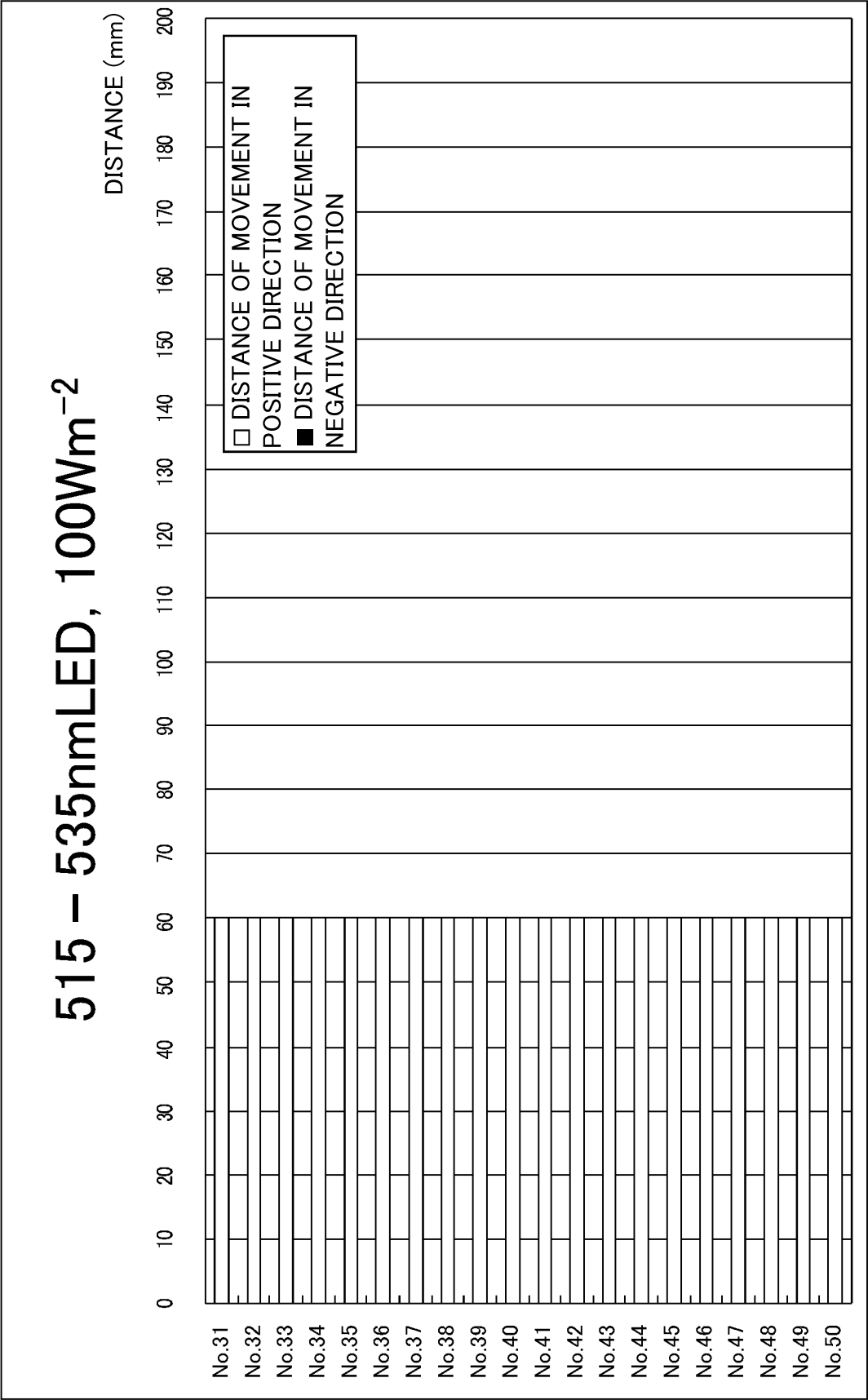


FIG. 4C

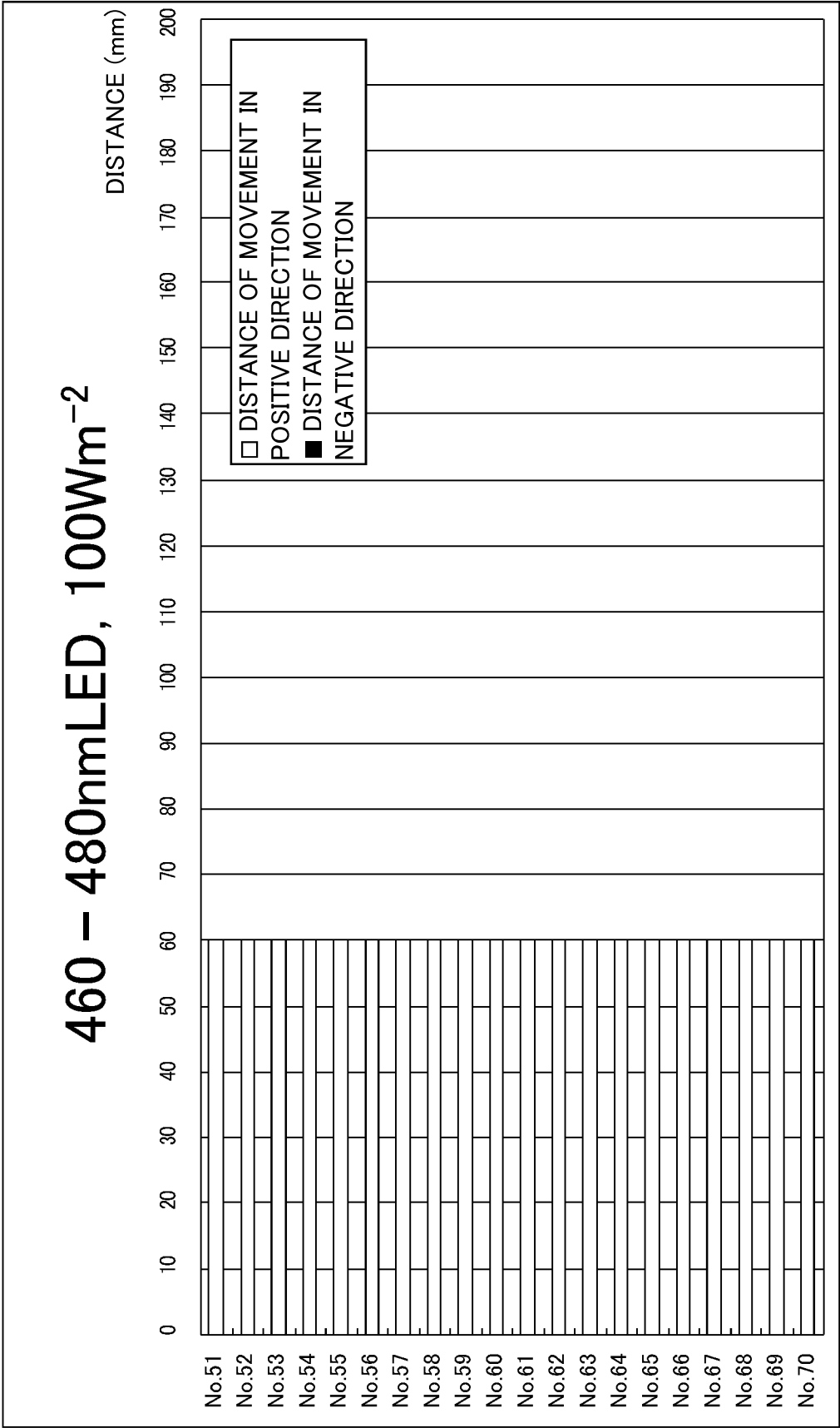


FIG. 4D

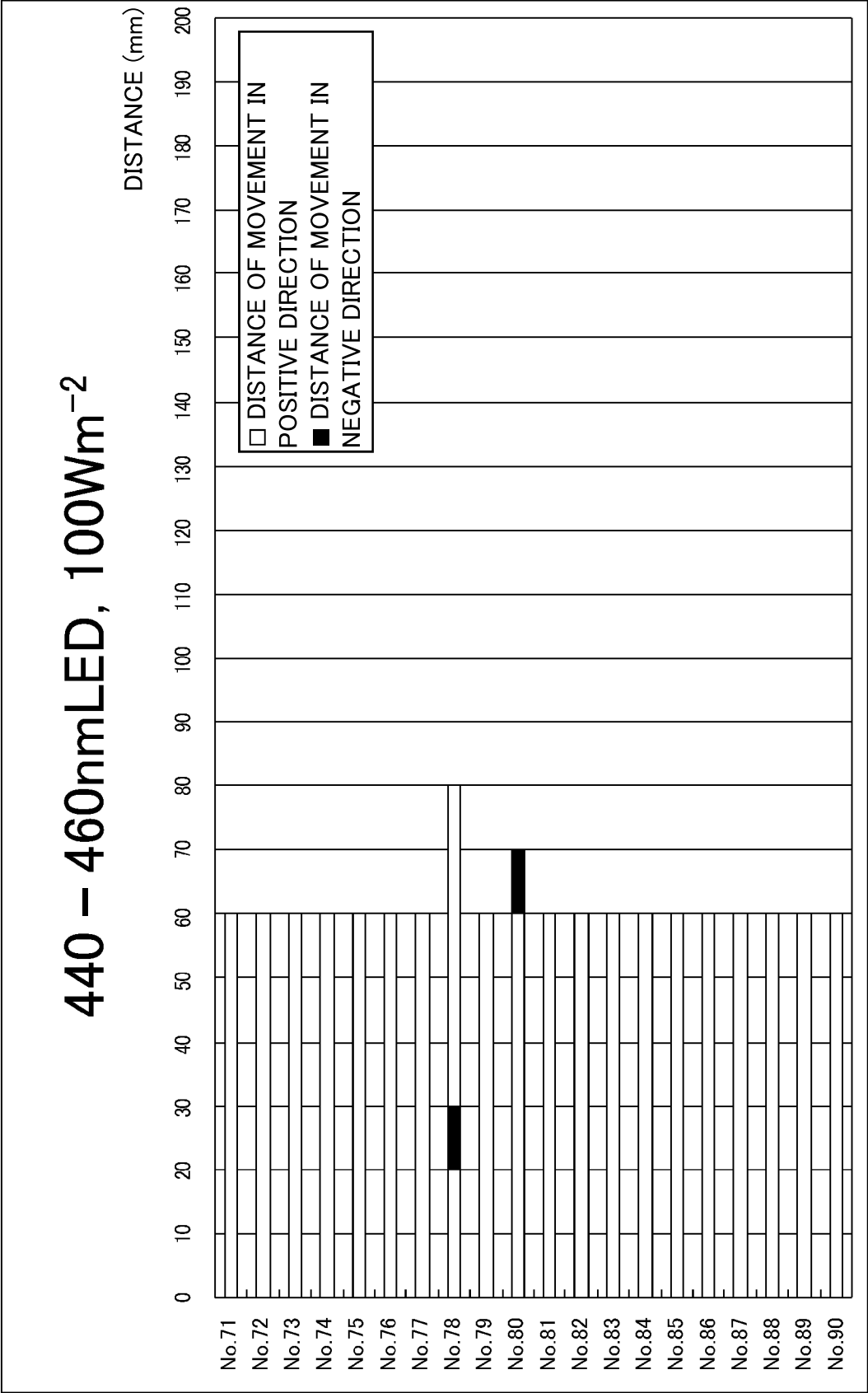


FIG. 4E

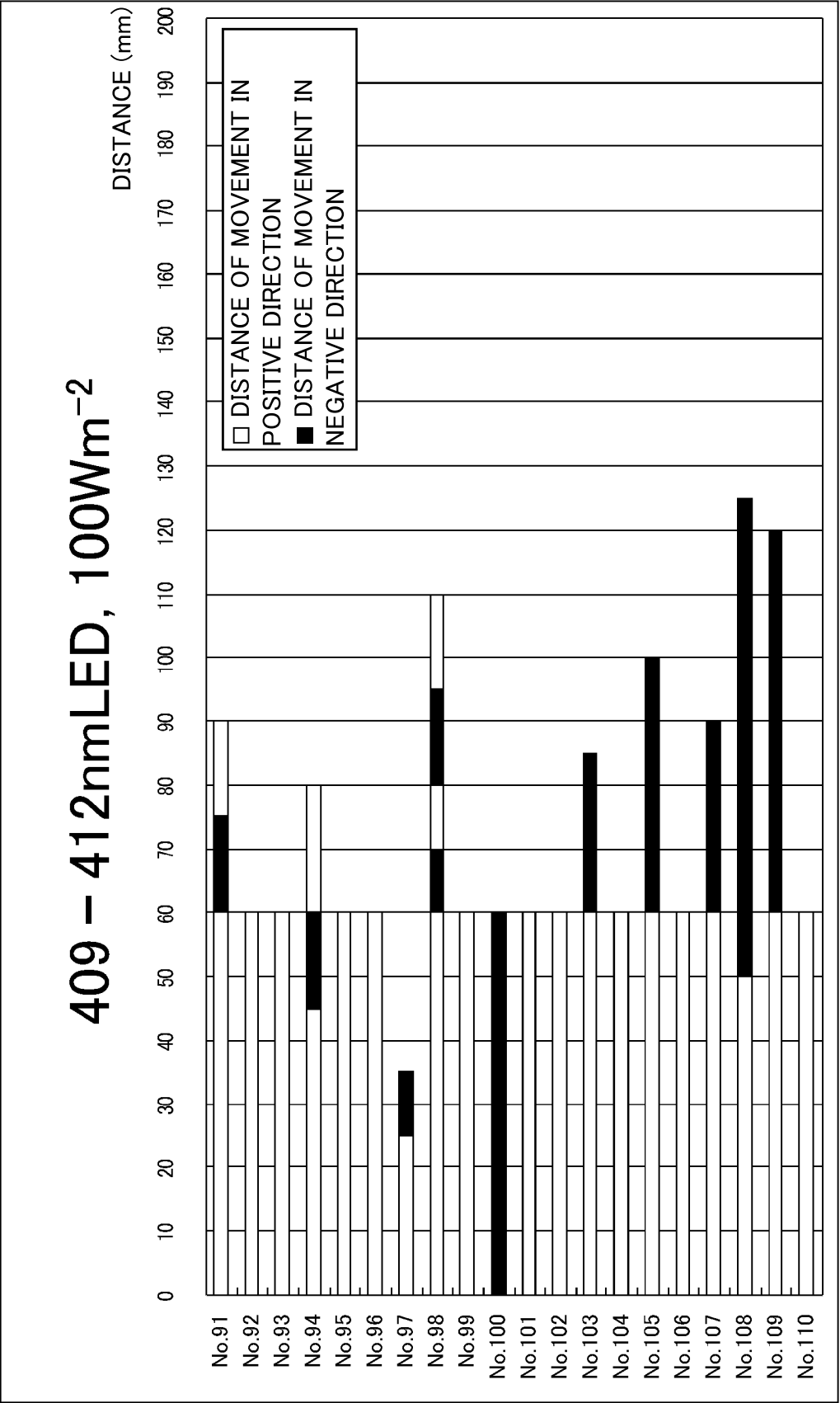


FIG. 4F

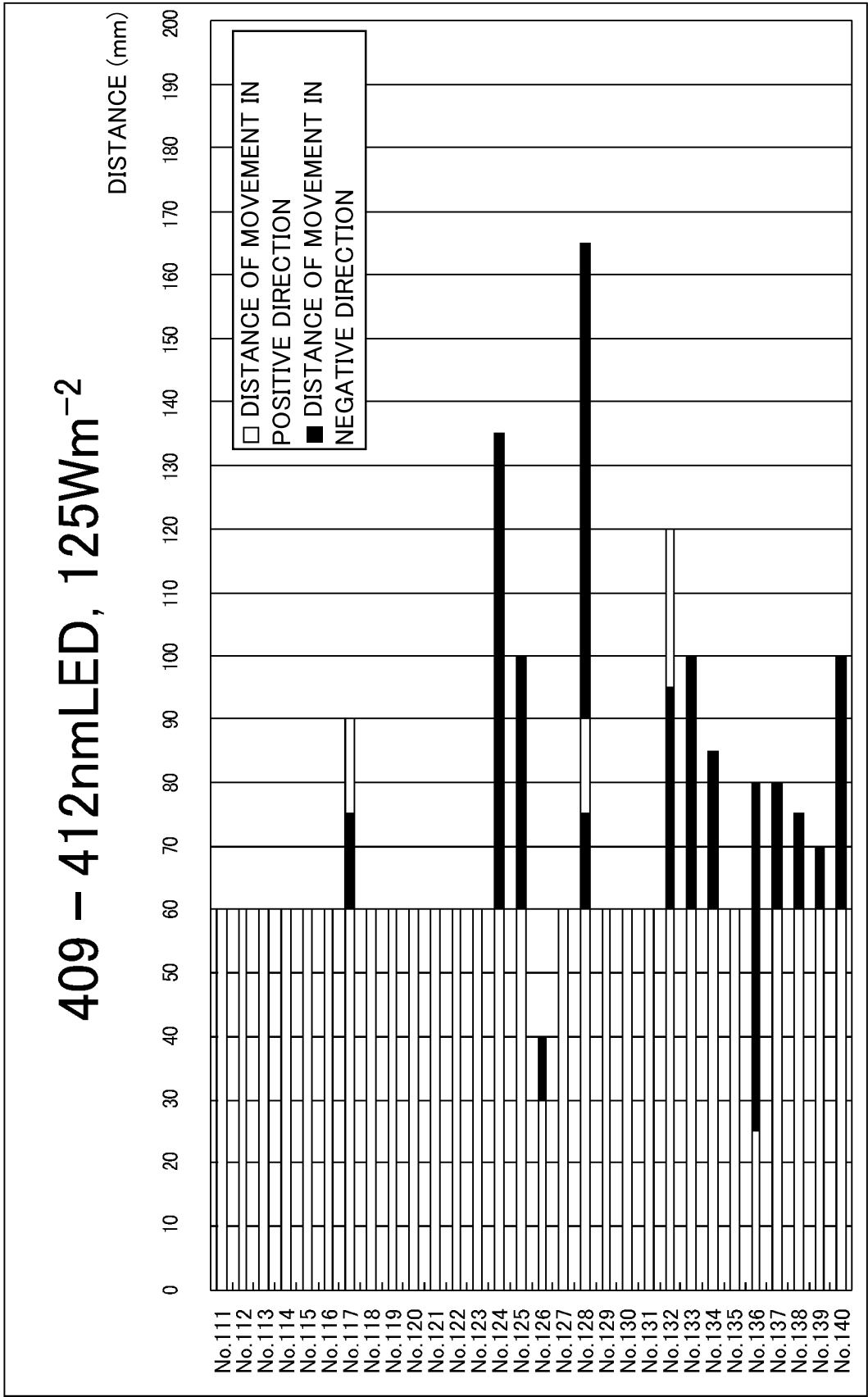


FIG. 4G

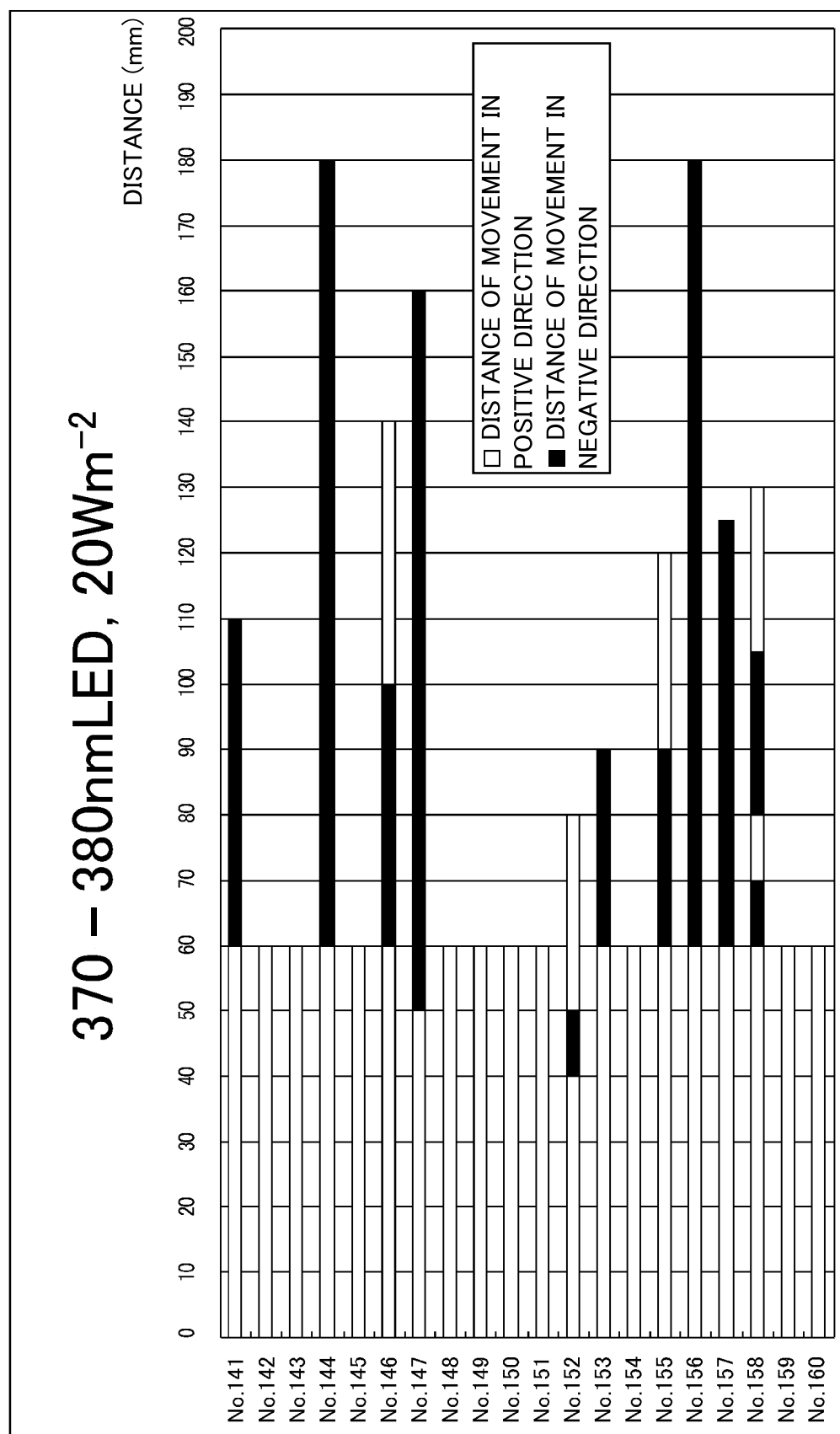


FIG. 5A

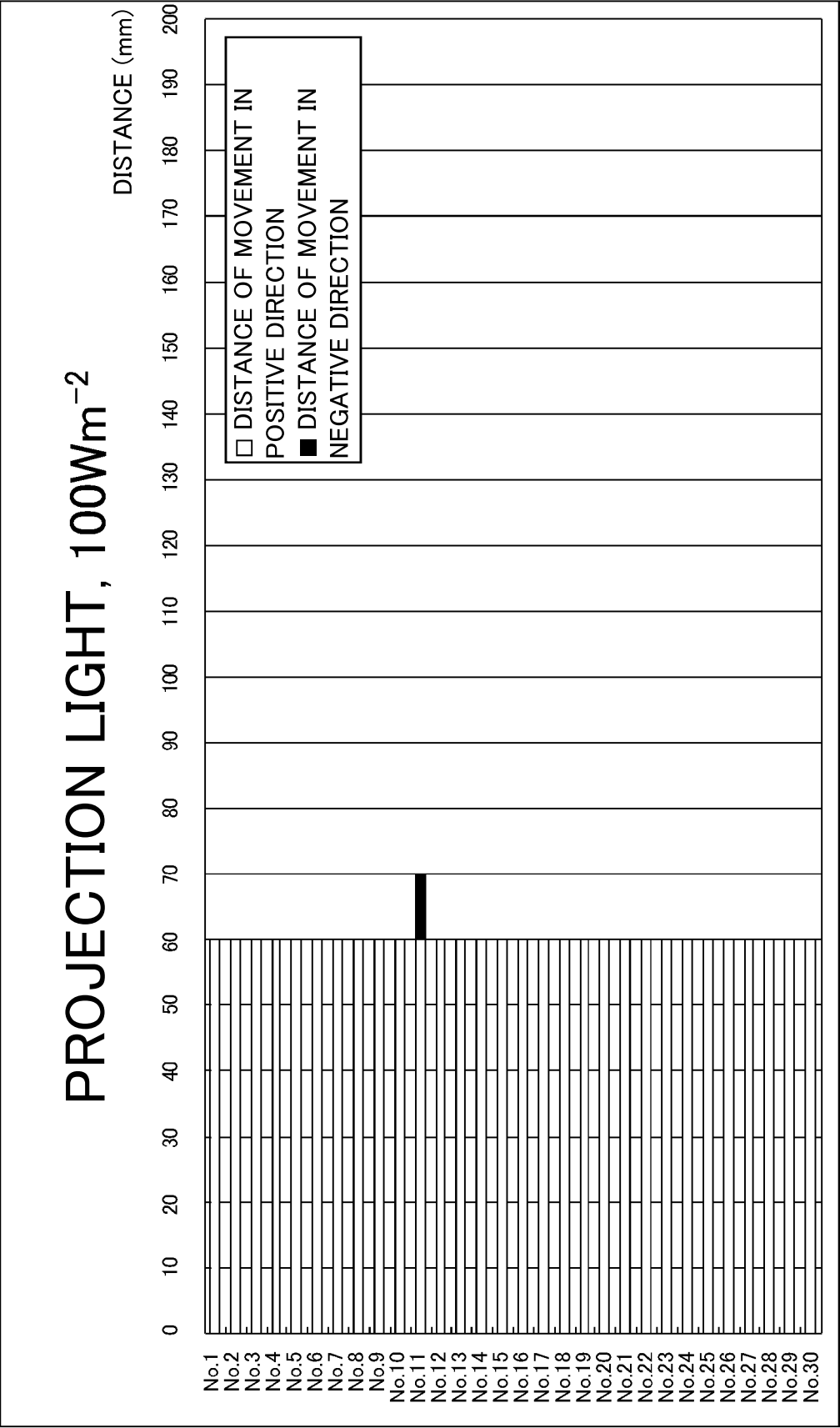


FIG. 5B

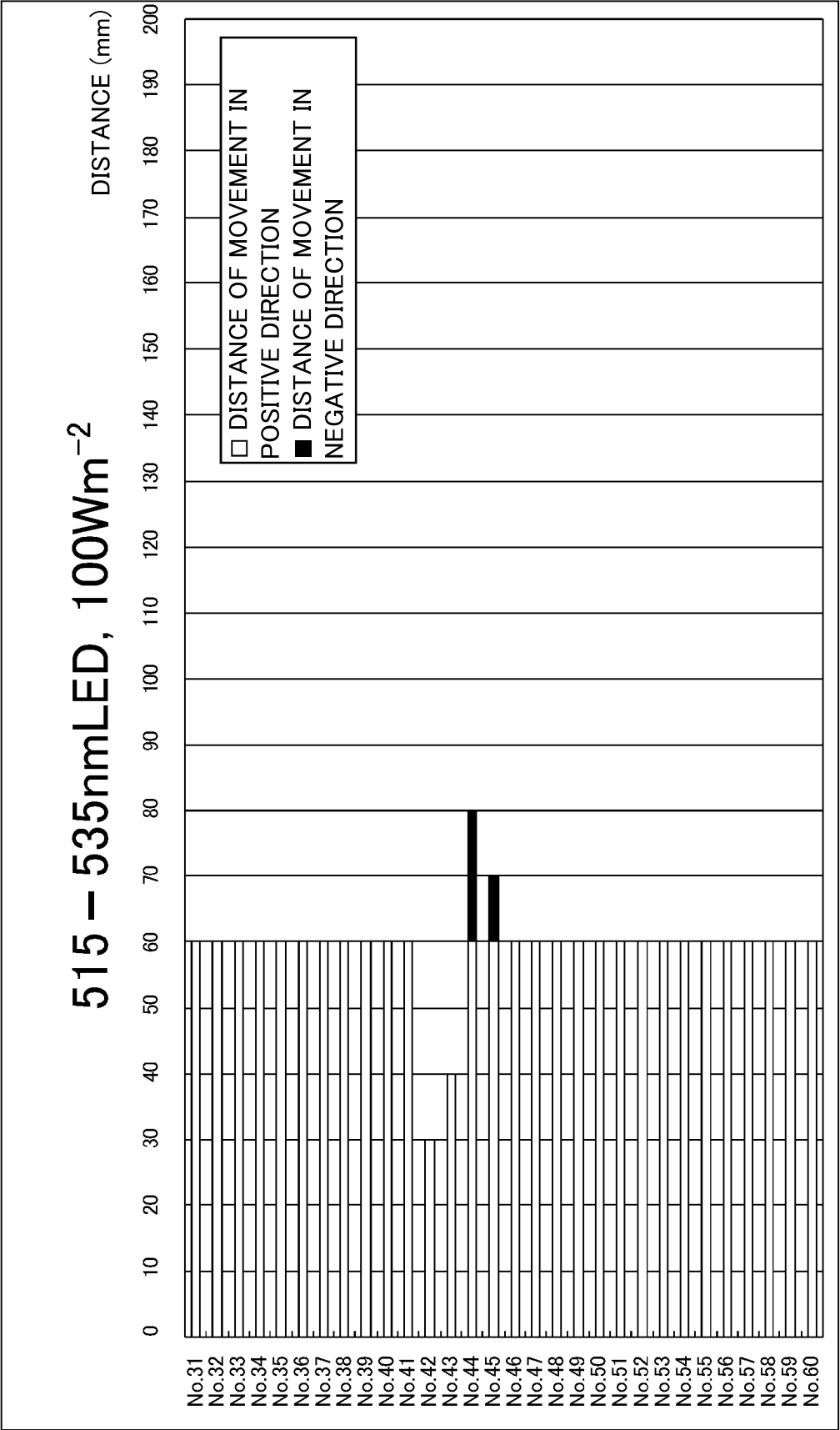


FIG. 5C

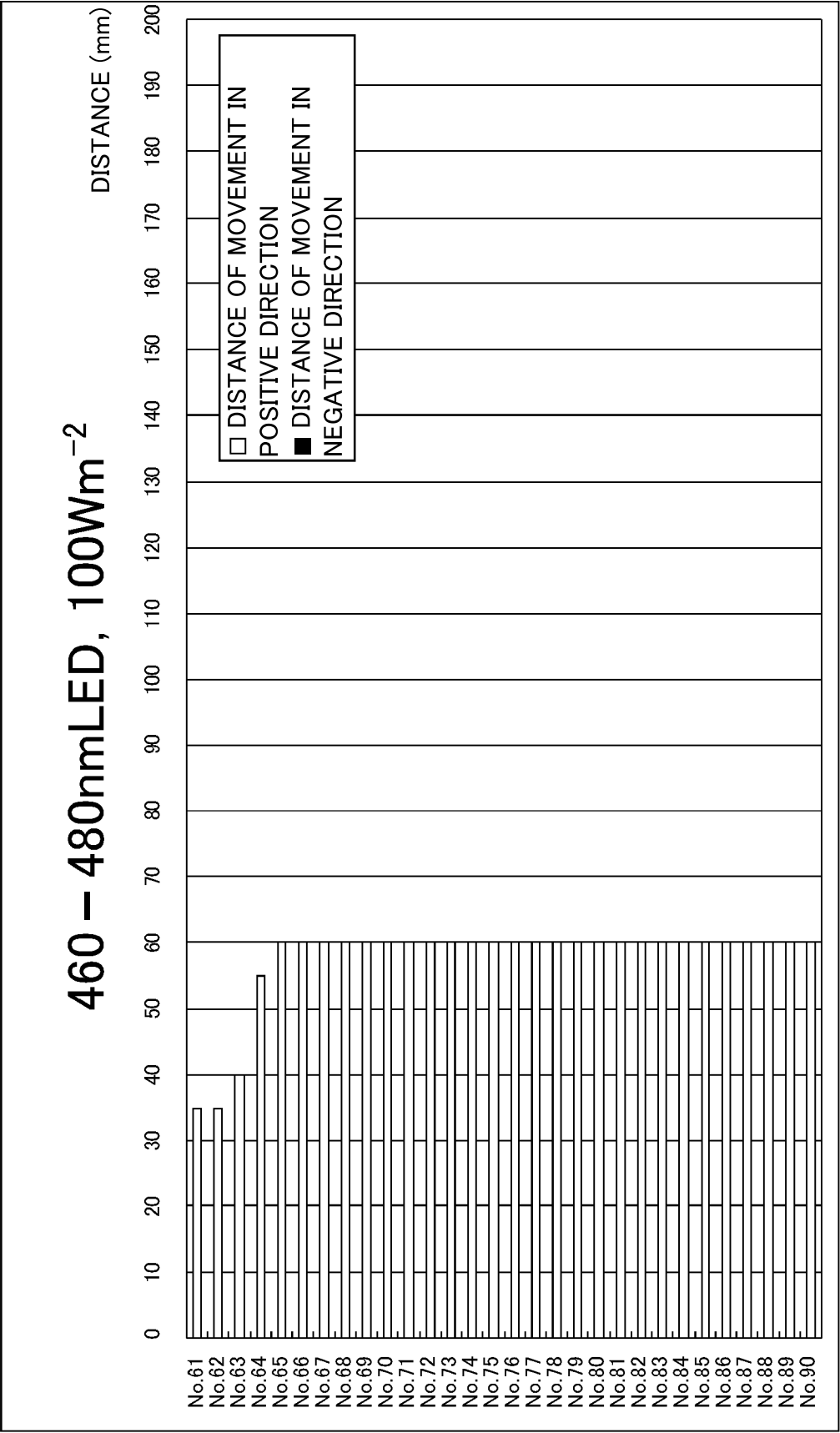


FIG. 5D

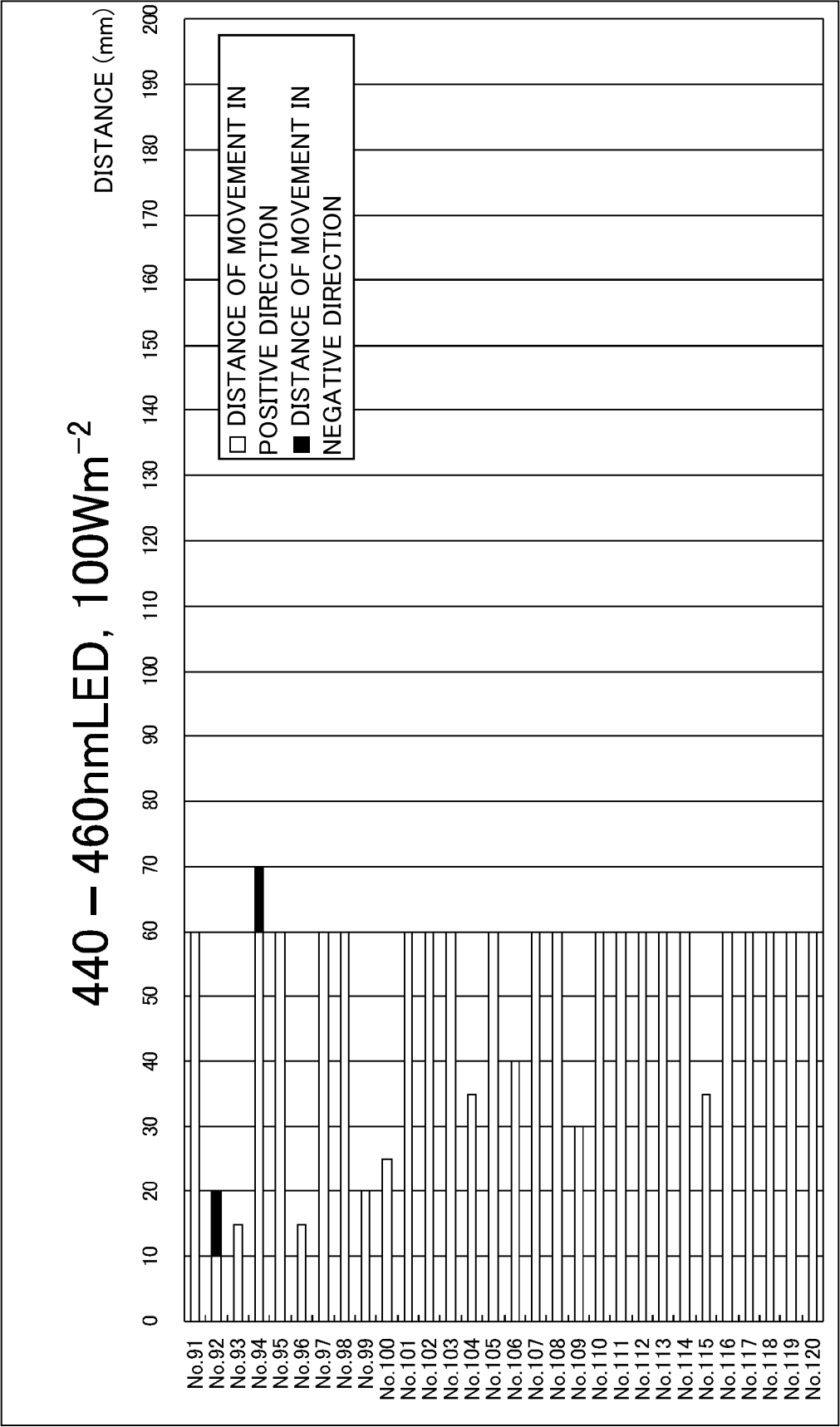


FIG. 5E

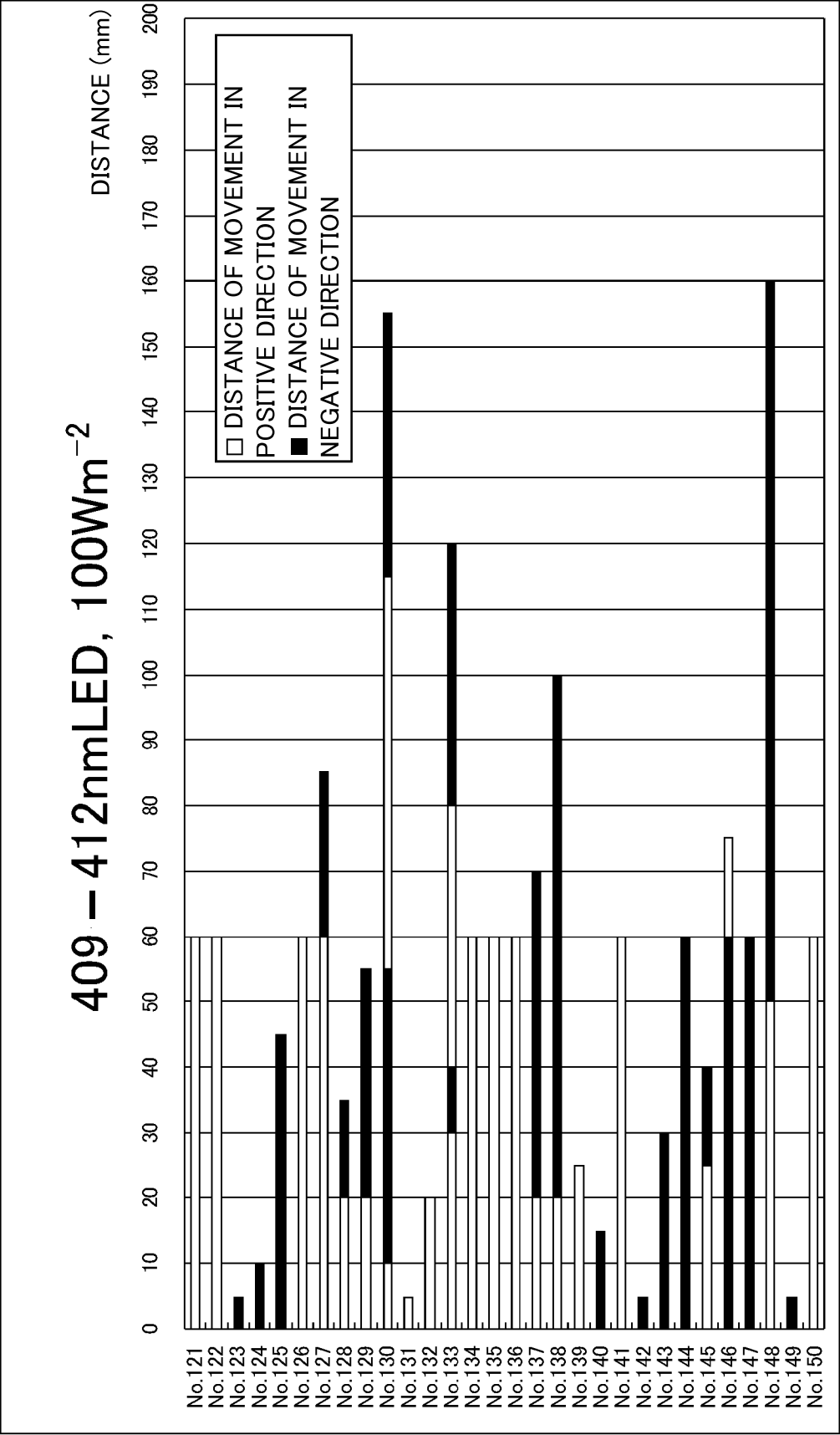


FIG. 5F

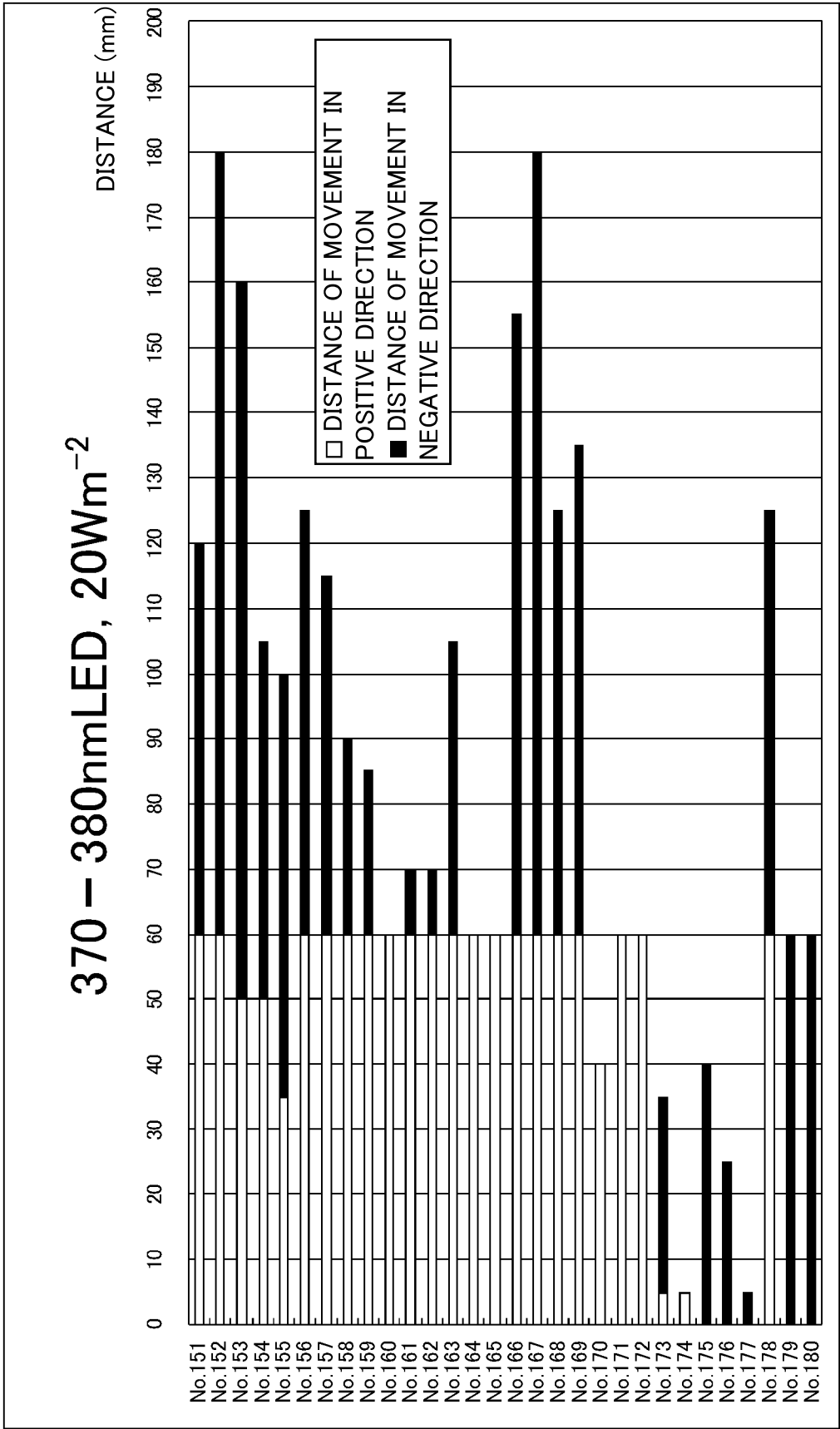


FIG. 6

PERCENTAGE OF CYPRIS LARVAE OF *Megabalanus rosa* LOCATED
IN POSITIVE AND NEGATIVE AREAS AFTER LED BEAM WAS
IRRADIATED FOR 10 MINUTES

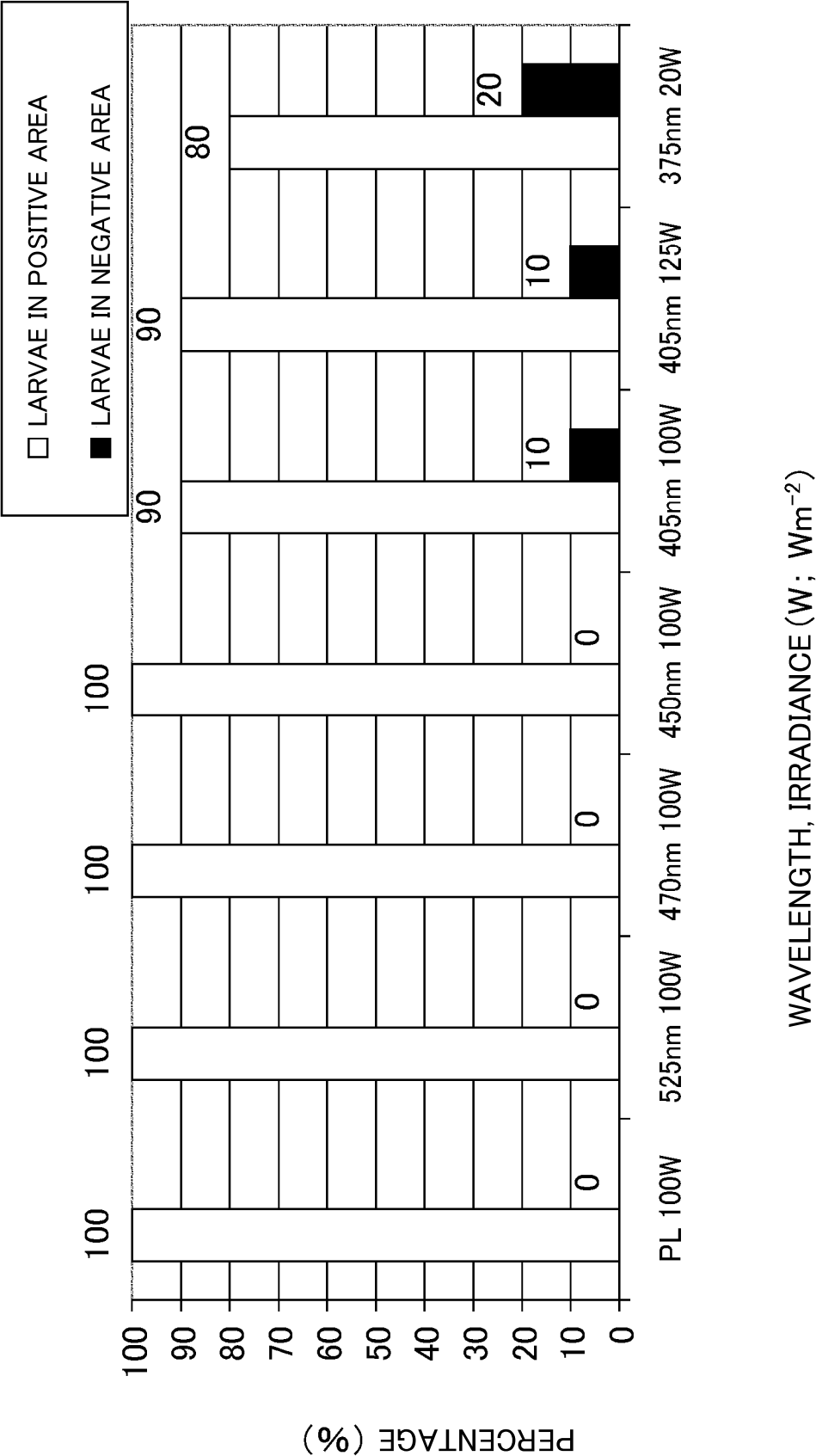


FIG. 7

PERCENTAGE OF CYPRIIS LARVAE OF *Balanus amphitrite* LOCATED
IN POSITIVE AND NEGATIVE AREAS AFTER LED BEAM WAS
IRRADIATED FOR 5 MINUTES

