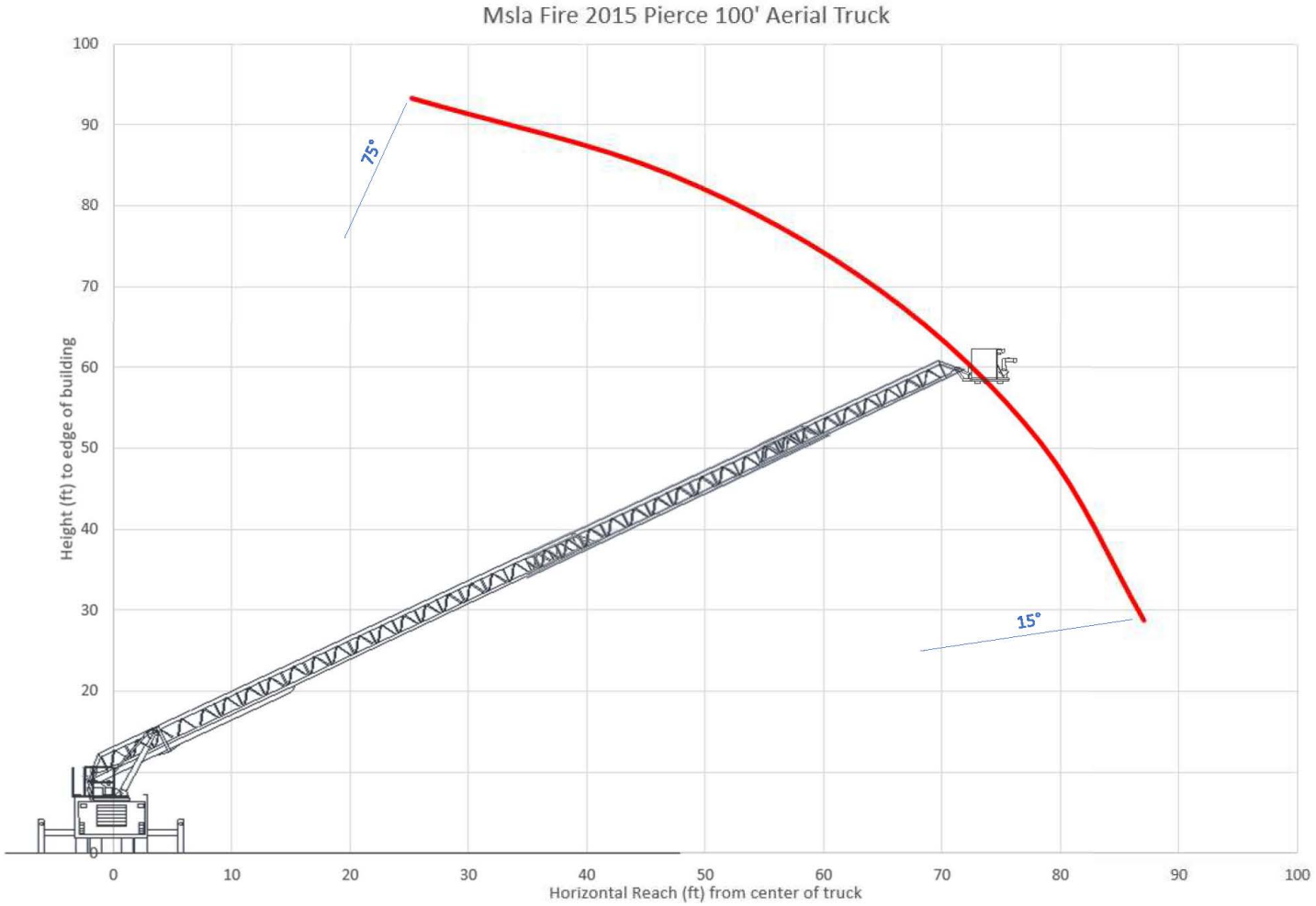


FIELD MEASUREMENT OF 2015 PIERCE AERIAL TRUCK

10/30/2023

Perpendicular Deployment

Ladder angle	Reach (ft)	Reach (in)	Height (ft)	Height (in)
Measurement in field 0°	88	2	7	9
Measurement on panel 0°	93		15	
15°	86	1	30	3
15°	90		37	
30°	77	4	52	3
30°	81		59	
45°	63	10	71	0
45°	66		78	
60°	46	0	85	5
60°	47		93	
75°	24	2	94	10
75°	24		102	

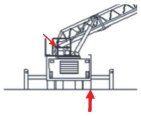
Front Deployment

Ladder angle	Reach (ft)	Reach (in)	Height (ft)	Height (in)
Measurement in field 0°	NA	NA	NA	NA
Measurement on panel 0°	93		15	
15°	54	2	30	5
15°	90		37	
30°	45	10	51	10
30°	81		59	
45°	32	0	71	0
45°	66		78	
60°	14	2	85	0
60°	47		93	
(above truck cab) 75°	NA	NA	NA	NA
75°	24		102	

Locations of Field Measurements

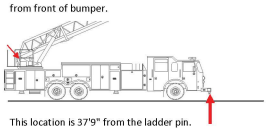
Height and Reach measured at front of platform to ground.

Measurements were from side edge of truck.



This location is 4'0" from center of truck.
This location is 6'9" from the ladder pin.

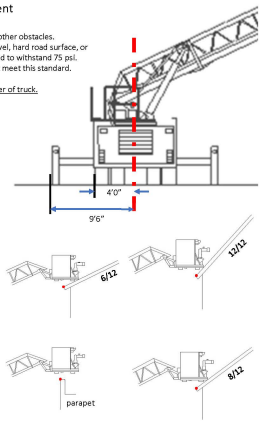
For front deployment, measurement was from front of bumper.



This location is 37'9" from the ladder pin.

Perpendicular Deployment

- 1 ft clearance of curb, vehicles, other obstacles.
- Outriggers must be placed on level, hard road surface, or asphalt/concrete/gravel designed to withstand 75 psi.
  - Typical sidewalks do not meet this standard.
- Reach distance shown is to center of truck.



Shown here, the red dot (●) represents the design reach & height shown on the graphs and in the tables.

The design clearance is 3-ft from the front end of the platform and 1-ft from the bottom for a parapet building. The clearances reduce for pitch roofs.

	Reach (ft)	Reach (in)	Height (ft)	Height (in)
15°	87	1	28	9
16°	86	6	30	3
17°	85	11	31	8
18°	85	4	33	2
19°	84	9	34	7
20°	84	2	36	1
21°	83	7	37	7
22°	83	0	39	0
23°	82	5	40	6
24°	81	10	41	11
25°	81	3	43	5
26°	80	8	44	11
27°	80	1	46	4
28°	79	6	47	10
29°	78	11	49	3
30°	78	4	50	9
31°	77	5	52	0
32°	76	6	53	3
33°	75	8	54	6
34°	74	9	55	9
35°	73	10	57	0
36°	72	11	58	3
37°	72	0	59	6
38°	71	2	60	9
39°	70	3	62	0
40°	69	4	63	3
41°	68	5	64	6
42°	67	6	65	9
43°	66	8	67	0
44°	65	9	68	3
45°	64	10	69	6

	Reach (ft)	Reach (in)	Height (ft)	Height (in)
45°	64	10	69	6
46°	63	8	70	6
47°	62	6	71	5
48°	61	3	72	5
49°	60	1	73	4
50°	58	11	74	4
51°	57	9	75	3
52°	56	6	76	3
53°	55	4	77	2
54°	54	1	78	2
55°	52	11	79	1
56°	51	9	80	1
57°	50	7	81	0
58°	49	5	81	11
59°	48	2	82	11
60°	47	0	83	11
61°	45	6	84	6
62°	44	1	85	2
63°	42	7	85	9
64°	41	2	86	5
65°	39	8	87	0
66°	38	3	87	8
67°	36	9	88	3
68°	35	4	88	11
69°	33	10	89	6
70°	32	5	90	2
71°	30	11	90	10
72°	29	6	91	5
73°	28	1	92	1
74°	26	7	92	8
75°	25	2	93	4

NOTES:

Figures D105.3(1) Proximity to building. Aerial fire apparatus access roads located greater than 30 feet from building must be reviewed and approved to match the capabilities of the fire department aerial equipment versus the building's height by performance-based design.

Standard Detail (STD) Aerial Fire Apparatus Access Road For Buildings Greater Than 30 Feet In Height Figures D105.3(1) Performance-Based Design

APPROVED BY	SCALE: N.T.S.	STD - D105.3(1)
DAX FRASER, FIRE MARSHAL	DATE: 11/10/2023	
MFD FIRE PREVENTION BUREAU	FIGURE & TABLE BY: ICC	