Type of Auditorium	V cubic feet	S square feet	Mean Free Path, feet	$\frac{4V}{S}$	k	Comments on Distribution of Reflections
(a) Rectangular, 70 ft. by 96 ft. by 48 ft., no balcony	322,600	29,400	44.0	43.7	0.049	Probability of reflections from ceiling and floor about 10 per cent greater than from walls
garding balcony opening as a reflect- ing surface	223,000	24,600	36.2	36.4	.049	
of a single cavity	284,000	32,600	35.6	34.8	.050	
(d) Same as (c) but with gabled ceiling (e) Cube, 70 ft. by 70	338,000	34,800	39.8	38.8	.050	
ft. by 70 ft	343,000	29,400	48.4	46.6	.051	, , , , , , , , , , , , , , , , , , ,
<ul> <li>(f) Office room 48 ft. by 39 ft., 4 in. by 11 ft., 8 in</li> <li>(g) Country church 96 ft. by 32 ft. on plan, 50 ft. to top of</li> </ul>	17,600	4,860	13.6	14.5	.046	Most reflections from ceiling and floor
gabled ceiling	127,000	16,600	30.8	30.6	.049	
<ul><li>(h) Fan-shaped theatre,</li><li>with balcony</li><li>(i) Cruciform church</li></ul>	470,000	46,300	40.6	40.6	.049	
(no aisles or trusses)	354,000	36,400	42.0	38.9	. 053	
(j) Pantheon type, with domed ceiling (k) Barreled ceiling,	690,000	41,500	69.6	66.5	.051	
99 ft. by 48 ft., on plan	172,000	19,300	34.7	35.6	.048	