



Typical unit sizes	S4			S 4		S 4		S 4		S4				S4		S4	S4	
	Shks	6x22	Shks			6x16	Shks	6x12	Shks		6x9	Shks		Shks	4.5x6.5			
Degrees of throw	10	11	12	14	16	19	20	26	30	36	37	40	45	50	55	70	90	
Distance in feet	5	0.9	0.99	1.08	1.26	1.44	1.71	1.8	2.34	2.7	3.24	3.33	3.6	4.05	4.5	4.95	6.3	8.1
	10	1.8	1.98	2.16	2.52	2.88	3.42	3.6	4.68	5.4	6.48	6.66	7.2	8.1	9	9.9	12.6	16.2
	15	2.7	2.97	3.24	3.78	4.32	5.13	5.4	7.02	8.1	9.72	9.99	10.8	12.15	13.5	14.85	18.9	24.3
	20	3.6	3.96	4.32	5.04	5.76	6.84	7.2	9.36	10.8	12.96	13.32	14.4	16.2	18	19.8	25.2	32.4
	25	4.5	4.95	5.4	6.3	7.2	8.55	9	11.7	13.5	16.2	16.65	18	20.25	22.5	24.75	31.5	40.5
	30	5.4	5.94	6.48	7.56	8.64	10.26	10.8	14.04	16.2	19.44	19.98	21.6	24.3	27	29.7	37.8	48.6
	35	6.3	6.93	7.56	8.82	10.08	11.97	12.6	16.38	18.9	22.68	23.31	25.2	28.35	31.5	34.65	44.1	56.7
	40	7.2	7.92	8.64	10.08	11.52	13.68	14.4	18.72	21.6	25.92	26.64	28.8	32.4	36	39.6	50.4	64.8
	45	8.1	8.91	9.72	11.34	12.96	15.39	16.2	21.06	24.3	29.16	29.97	32.4	36.45	40.5	44.55	56.7	72.9
	50	9	9.9	10.8	12.6	14.4	17.1	18	23.4	27	32.4	33.3	36	40.5	45	49.5	63	81
	55	9.9	10.89	11.88	13.86	15.84	18.81	19.8	25.74	29.7	35.64	36.63	39.6	44.55	49.5	54.45	69.3	89.1
	60	10.8	11.88	12.96	15.12	17.28	20.52	21.6	28.08	32.4	38.88	39.96	43.2	48.6	54	59.4	75.6	97.2
	65	11.7	12.87	14.04	16.38	18.72	22.23	23.4	30.42	35.1	42.12	43.29	46.8	52.65	58.5	64.35	81.9	105.3
	70	12.6	13.86	15.12	17.64	20.16	23.94	25.2	32.76	37.8	45.36	46.62	50.4	56.7	63	69.3	88.2	113.4
	75	13.5	14.85	16.2	18.9	21.6	25.65	27	35.1	40.5	48.6	49.95	54	60.75	67.5	74.25	94.5	121.5
	80	14.4	15.84	17.28	20.16	23.04	27.36	28.8	37.44	43.2	51.84	53.28	57.6	64.8	72	79.2	100.8	129.6
	85	15.3	16.83	18.36	21.42	24.48	29.07	30.6	39.78	45.9	55.08	56.61	61.2	68.85	76.5	84.15	107.1	137.7
90	16.2	17.82	19.44	22.68	25.92	30.78	32.4	42.12	48.6	58.32	59.94	64.8	72.9	81	89.1	113.4	145.8	
95	17.1	18.81	20.52	23.94	27.36	32.49	34.2	44.46	51.3	61.56	63.27	68.4	76.95	85.5	94.05	119.7	153.9	
100	18	19.8	21.6	25.2	28.8	34.2	36	46.8	54	64.8	66.6	72	81	90	99	126	162	
Typical unit sizes	Standard 8" Fresnel (12-45 degrees)																	
	Standard 6" Fresnel (16-70 degrees)																	
Degrees of throw	10	11	12	14	16	19	20	26	30	36	37	40	45	50	55	70	90	

* Shks = Shakespeare unit by Altman
 * S4 = Source 4 unit by ETC

To calculate the beam width (diameter) of any fixture at any distance, use the following formula:
 Beam Width = Angle * .018 * Distance

