

Model Diameter Ref.	SPR	Diameter (m)	Base Area (m <sup>2</sup> )	Model Height Ref. and nominal height in metres									
				05	10	15	20	25	30	35	40	45	50
				1.43m	2.83m	4.23m	5.63m	7.03m	8.43m	9.83m	11.23m	12.63m	14.03m
11	4	3.416	9.162	13.1	25.9	38.7	51.5	64.4	77.2	90.0	102.9	115.7	128.5
14	5	4.269	14.32	20.4	40.5	60.5	80.5	100.6	120.6	140.7	160.7	180.8	200.8
17	6	5.123	20.62	29.4	58.3	87.1	116.0	144.8	173.7	202.6	231.4	260.3	289.1
20	7	5.977	28.06	40.0	79.3	118.6	157.9	197.1	236.4	275.7	315.0	354.3	393.6
22	8	6.831	36.65	52.3	103.6	154.9	206.2	257.5	308.8	360.1	411.4	462.7	514.0
25	9	7.685	46.38	66.1	131.1	196.0	261.0	325.9	390.8	455.8	520.7	585.6	650.6
28	10	8.539	57.26	81.7	161.8	242.0	322.2	402.3	482.5	562.7	642.8	723.0	803.2
31	11	9.393	69.29	98.8	195.8	292.8	389.8	486.8	583.8	680.8	777.8	874.9	971.9
34	12	10.247	82.46	117.6	233.0	348.5	463.9	579.4	694.8	810.3	925.7	1041.1	1156.6
36	13	11.100	96.78	138.0	273.5	409.0	544.5	680.0	815.4	950.9	1086.4	1221.9	1357.4
39	14	11.954	112.2	160.1	317.2	474.3	631.4	788.6	945.7	1102.8	1260.0	1417.1	1574.2
42	15	12.808	128.8	183.7	364.1	544.5	724.9	905.3	1085.6	1266.0	1446.4	1626.8	1807.2
45	16	13.662	146.6	209.0	414.3	619.5	824.7	1030.0	1235.2	1440.5	1645.7	1850.9	2056.2
48	17	14.516	165.5	236.0	467.7	699.4	931.1	1162.8	1394.4	1626.1	1857.8	2089.5	2321.2
50	18	15.370	185.5	264.6	524.3	784.1	1043.8	1303.6	1563.3	1823.1	2082.8	2342.6	2602.3
53	19	16.224	206.7	294.8	584.2	873.6	1163.0	1452.4	1741.9	2031.3	2320.7	2610.1	2899.5
56	20	17.078	229.1	326.6	647.3	968.0	1288.7	1609.4	1930.0	2250.7	2571.4	2892.1	3212.7
59	21	17.931	252.5	360.1	713.7	1067.2	1420.8	1774.3	2127.9	2481.4	2835.0	3188.5	3542.1
62	22	18.785	277.2	395.2	783.2	1171.3	1559.3	1947.3	2335.3	2723.4	3111.4	3499.4	3887.4
64	23	19.639	302.9	432.0	856.1	1280.2	1704.3	2128.4	2552.5	2976.6	3400.7	3824.8	4248.9
67	24	20.493	329.8	470.4	932.1	1393.9	1855.7	2317.5	2779.2	3241.0	3702.8	4164.6	4626.4
70	25	21.347	357.9	510.4	1011.4	1512.5	2013.5	2514.6	3015.7	3516.7	4017.8	4518.9	5019.9
73	26	22.201	387.1	552.0	1094.0	1635.9	2177.9	2719.8	3261.8	3803.7	4345.6	4887.6	5429.5
76	27	23.055	417.5	595.3	1179.7	1764.2	2348.6	2933.0	3517.5	4101.9	4686.4	5270.8	5855.2
78	28	23.909	449.0	640.2	1268.7	1897.3	2525.8	3154.3	3782.9	4411.4	5039.9	5668.5	6297.0
81	29	24.762	481.6	686.7	1361.0	2035.2	2709.4	3383.7	4057.9	4732.1	5406.3	6080.6	6754.8

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84	30	25.616	515.4	734.9	1456.5	2178.0	2899.5	3621.0	4342.6	5064.1	5785.6	6507.2	7228.7
87	31	26.470	550.3	784.7	1555.2	2325.6	3096.0	3866.5	4636.9	5407.3	6177.8	6948.2	7718.6
90	32	27.324	586.4	836.2	1657.1	2478.1	3299.0	4119.9	4940.9	5761.8	6582.8	7403.7	8224.6
92	33	28.178	623.6	889.3	1762.3	2635.4	3508.4	4381.5	5254.5	6127.6	7000.6	7873.7	8746.7
95	34	29.032	662.0	944.0	1870.7	2797.5	3724.3	4651.0	5577.8	6504.5	7431.3	8358.1	
98	35	29.886	701.5	1000.3	1982.4	2964.5	3946.6	4928.6	5910.7	6892.8	7874.9	8857.0	
101	36	30.740	742.1	1058.3	2097.3	3136.3	4175.3	5214.3	6253.3	7292.3	8331.3	9370.3	
104	37	31.594	783.9	1117.9	2215.4	3313.0	4410.5	5508.0	6605.5	7703.1	8800.6		
106	38	32.447	826.9	1179.2	2336.8	3494.5	4652.1	5809.8	6967.4	8125.1	9282.7		
109	39	33.301	871.0	1242.0	2461.4	3680.8	4900.2	6119.6	7338.9	8558.3	9777.7		
112	40	34.155	916.2	1306.5	2589.3	3872.0	5154.7	6437.4	7720.1	9002.8	10285.6		
115	41	35.009	962.6	1372.7	2720.3	4068.0	5415.6	6763.3	8110.9	9458.6	10806.3		
118	42	35.86	1010.1	1440.5	2854.7	4268.8	5683.0	7097.2	8511.4	9925.6			
120	43	36.717	1058.8	1509.9	2992.2	4474.5	5956.9	7439.2	8921.6	10403.9			
123	44	37.571	1108.6	1580.9	3133.0	4685.1	6237.2	7789.3	9341.3	10893.4			
126	45	38.425	1159.6	1653.6	3277.0	4900.5	6523.9	8147.3	9770.8	11394.2			
129	46	39.278	1211.7	1727.9	3424.3	5120.7	6817.1	8513.5	10209.9	11906.2			
132	47	40.132	1265.0	1803.8	3574.8	5345.7	7116.7	8887.6	10658.6	12429.5			
134	48	40.986	1319.4	1881.4	3728.5	5575.6	7422.7	9269.9	11117.0				
137	49	41.840	1374.9	1960.6	3885.5	5810.4	7735.3	9660.1	11585.0				
140	50	42.694	1431.6	2041.5	4045.7	6050.0	8054.2	10058.4	12062.7				
143	51	43.548	1489.4	2123.9	4209.2	6294.4	8379.6	10464.8	12550.0				
146	52	44.402	1548.4	2208.0	4375.8	6543.6	8711.4	10879.2	13047.0				
148	53	45.256	1608.5	2293.8	4545.8	6797.7	9049.7	11301.7	13553.6				
151	54	46.109	1669.8	2381.2	4718.9	7056.7	9394.4	11732.2	14069.9				
154	55	46.963	1732.2	2470.2	4895.3	7320.4	9745.6	12170.7	14595.8				

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157	56	47.817	1795.8	2560.8	5074.9	7589.1	10103.2	12617.3						
160	57	48.671	1860.5	2653.1	5257.8	7862.5	10467.2	13072.0						
162	58	49.525	1926.4	2747.0	5443.9	8140.8	10837.7	13534.6						
165	59	50.379	1993.4	2842.5	5633.2	8424.0	11214.7	14005.4						
168	60	51.233	2061.5	2939.7	5825.8	8711.9	11598.0	14484.2						
171	61	52.087	2130.8	3038.5	6021.6	9004.8	11987.9	14971.0						
174	62	52.940	2201.2	3139.0	6220.7	9302.4	12384.1	15465.9						
176	63	53.794	2272.8	3241.0	6423.0	9604.9	12786.8	15968.8						
179	64	54.648	2345.5	3344.7	6628.5	9912.2	13196.0	16479.8						
182	65	55.502	2419.4	3450.1	6837.2	10224.4	13611.6	16998.8						
185	66	56.356	2494.4	3557.0	7049.2	10541.4	14033.6	17525.8						
188	67	57.210	2570.6	3665.7	7264.5	10863.3	14462.1							
190	68	58.064	2647.9	3775.9	7482.9	11190.0	14897.0							
193	69	58.918	2726.3	3887.8	7704.6	11521.5	15338.4							
196	70	59.772	2805.9	4001.3	7929.6	11857.9	15786.2							
199	71	60.625	2886.7	4116.4	8157.8	12199.1	16240.5							
202	72	61.479	2968.6	4233.2	8389.2	12545.2	16701.2							
207	74	63.187	3135.8	4471.6	8861.7	13251.8	17641.9							
205	73	62.333	3051.6	4351.6	8623.8	12896.1	17168.3							
210	75	64.041	3221.1	4593.3	9102.8	13612.4	18121.9							
213	76	64.895	3307.6	4716.6	9347.2	13977.8	18608.4							
216	77	65.749	3395.2	4841.5	9594.8	14348.1	19101.3							
219	78	66.603	3483.9	4968.1	9845.6	14723.2	19600.7							
221	79	67.456	3573.9	5096.3	10099.7	15103.1	20106.5							
224	80	68.310	3664.9	5226.2	10357.0	15487.9	20618.7							
227	81	69.164	3757.1	5357.6	10617.6	15877.5	21137.4							

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230	82	70.018	3850.4	5490.7	10881.3	16272.0	21662.6							
233	83	70.872	3944.9	5625.5	11148.4	16671.3								
235	84	71.726	4040.6	5761.8	11418.6	17075.4								
238	85	72.580	4137.3	5899.8	11692.1	17484.4								
241	86	73.434	4235.3	6039.5	11968.8	17898.2								
244	87	74.287	4334.3	6180.7	12248.8	18316.8								
247	88	75.141	4434.5	6323.6	12532.0	18740.3								
249	89	75.995	4535.9	6468.2	12818.4	19168.7								
252	90	76.849	4638.4	6614.3	13108.1	19601.8								
255	91	77.703	4742.0	6762.2	13401.0	20039.9								
258	92	78.557	4846.8	6911.6	13697.2	20482.7								
261	93	79.411	4952.8	7062.7	13996.5	20930.4								
263	94	80.265	5059.9	7215.4	14299.2	21383.0								
266	95	81.119	5168.1	7369.7	14605.0	21840.3								
269	96	81.972	5277.5	7525.7	14914.1	22302.5								
272	97	82.826	5388.0	7683.3	15226.4	22769.6								
275	98	83.680	5499.6	7842.5	15542.0	23241.5								
277	99	84.534	5612.5	8003.4	15860.8	23718.2								
280	100	85.388	5726.4	8165.9	16182.8	24199.8								

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