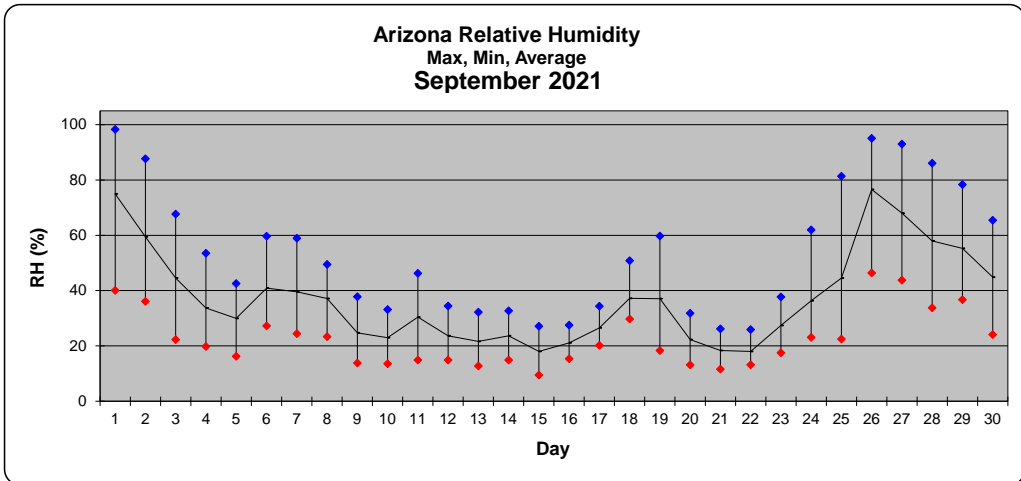
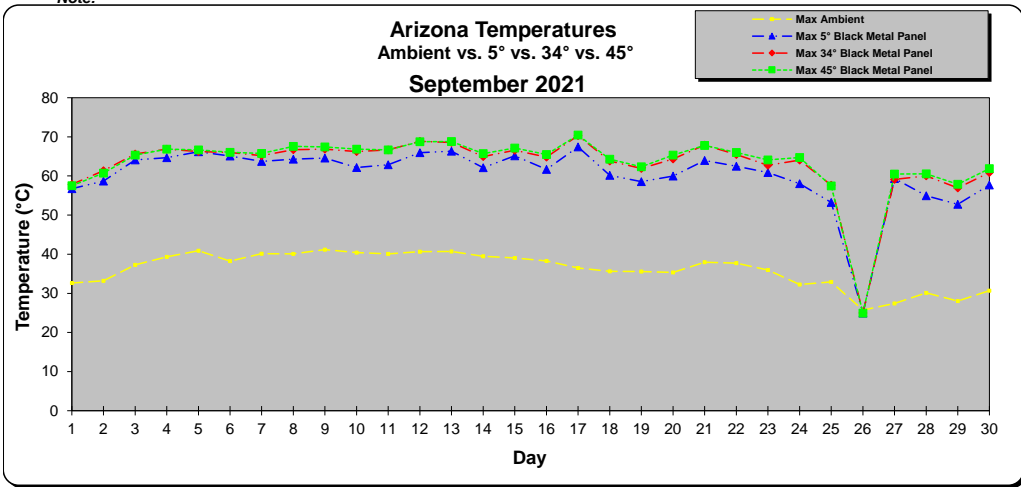


Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)

AWSG		Temperature Summary												Climate Summary						
Month	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity			Wind Speed		Wind Direction	Rainfall	
September	(° C)			5°			34°			45°			(%)			m/sec		360°/0°=N	(mm)	
Day	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Avg.	°	Total	
1	33	21	25	57	20	30	58	21	30	57	21	30	98	40	75	11.7	1.9	203°	15.2	
2	33	22	28	59	21	34	61	22	35	61	22	35	88	36	59	5.5	1.5	48°	0.3	
3	37	24	30	64	22	36	66	23	37	65	23	37	68	22	45	7.1	1.7	6°	0.0	
4	39	25	32	65	22	37	67	22	38	67	23	38	54	20	34	9.1	1.9	52°	0.0	
5	41	27	33	66	25	39	66	26	40	67	26	40	43	16	30	9.0	2.0	126°	0.0	
6	38	25	32	65	23	37	66	24	38	66	24	38	60	27	41	7.1	1.3	163°	0.0	
7	40	25	33	64	23	38	65	24	39	66	24	39	59	24	40	7.3	1.5	88°	0.0	
8	40	26	33	64	24	39	67	24	40	68	25	40	50	23	37	6.2	1.5	76°	0.0	
9	41	29	35	65	27	39	67	27	40	67	27	41	38	14	25	8.3	2.2	68°	0.0	
10	40	27	34	62	25	38	66	25	39	67	25	40	33	14	23	12.6	1.7	86°	0.0	
11	40	26	33	63	24	38	67	25	39	67	25	39	46	15	30	5.6	1.3	137°	0.0	
12	41	27	34	66	26	39	69	26	40	69	26	40	34	15	24	8.5	2.0	70°	0.0	
13	41	27	34	66	25	39	69	25	40	69	26	40	32	13	22	8.0	1.8	74°	0.0	
14	39	25	32	62	22	36	65	23	38	66	23	38	33	15	24	7.9	1.8	106°	0.0	
15	39	25	32	65	20	36	67	21	37	67	21	37	27	9	18	8.2	1.7	56°	0.0	
16	38	25	31	62	21	35	65	22	37	65	22	37	28	15	21	9.0	1.9	28°	0.0	
17	36	24	31	67	21	34	70	22	34	70	22	34	34	20	27	6.9	1.4	36°	0.0	
18	36	26	30	60	23	34	64	24	35	64	24	35	51	30	37	9.8	1.5	66°	0.0	
19	36	24	29	59	22	33	62	22	34	62	22	35	60	18	37	8.4	1.9	25°	0.0	
20	35	21	28	60	19	33	64	20	34	65	20	35	32	13	22	8.1	1.8	72°	0.0	
21	38	23	30	64	21	35	68	22	36	68	22	36	26	12	18	10.2	2.3	33°	0.0	
22	38	25	31	62	23	35	66	23	37	66	24	37	26	13	18	9.8	2.2	57°	0.0	
23	36	21	29	61	19	33	63	19	34	64	20	35	38	18	27	7.2	1.5	141°	0.0	
24	32	23	27	58	19	31	64	20	32	65	20	32	62	23	36	6.6	1.5	183°	0.0	
25	33	21	26	53	19	29	58	18	29	57	19	29	81	22	45	10.9	1.6	17°	2.3	
26	26	18	21	25	18	20	25	18	21	25	18	21	95	46	77	8.5	1.3	93°	12.2	
27	27	18	22	59	17	25	59	17	26	60	17	26	93	44	68	4.7	1.3	22°	0.3	
28	30	19	25	55	17	28	60	17	30	61	17	30	86	34	58	8.0	1.6	126°	0.0	
29	28	19	24	53	16	26	57	17	27	58	17	27	78	37	55	6.9	1.2	4°	0.0	
30	31	18	23	58	15	27	61	16	29	62	16	29	65	24	45	9.0	2.2	32°	0.0	
Monthly Avg.	36	24	30	60	21	34	63	22	35	63	22	35	54	22	37	8.2	1.7	76°		
Monthly Total																			30.2	
YTD <sup>†</sup> Avg.	31	18	24	55	15	28	56	15	29	57	16	29	49	20	34	9.2	2.0	115°		
YTD <sup>†</sup> Total																			322.8	

<sup>†</sup> Year To Date  
 Note:



Latitude 25° 34' North, Longitude 80° 28' West, Elevation 2 (m)

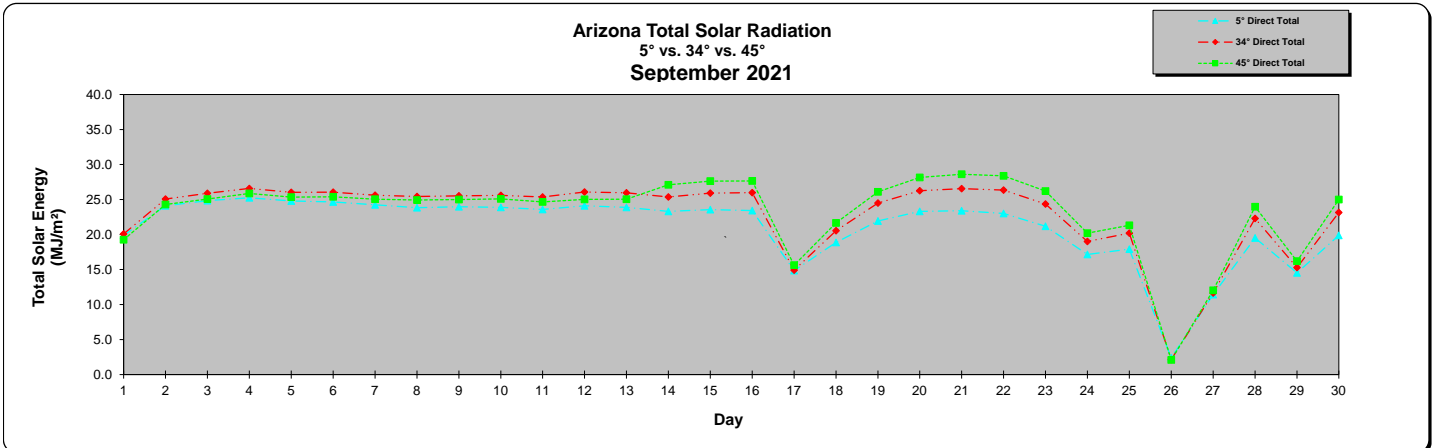
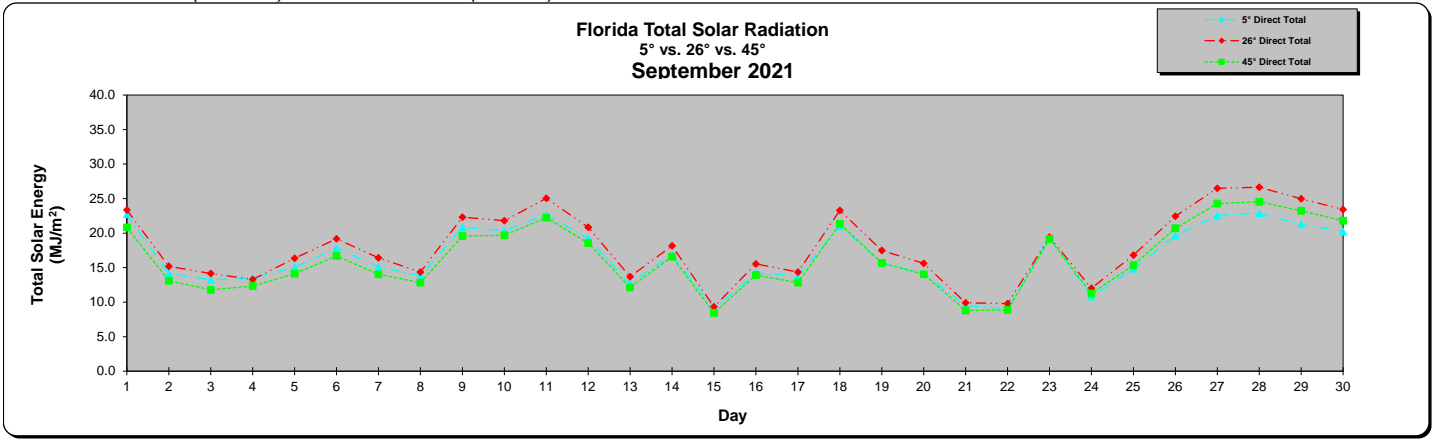
**Miami, Florida**

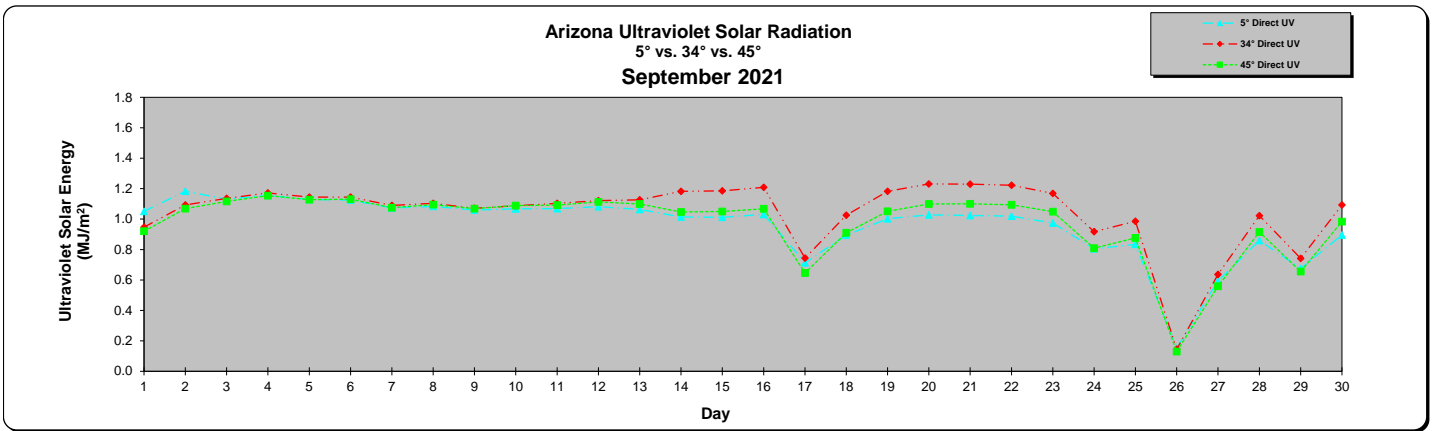
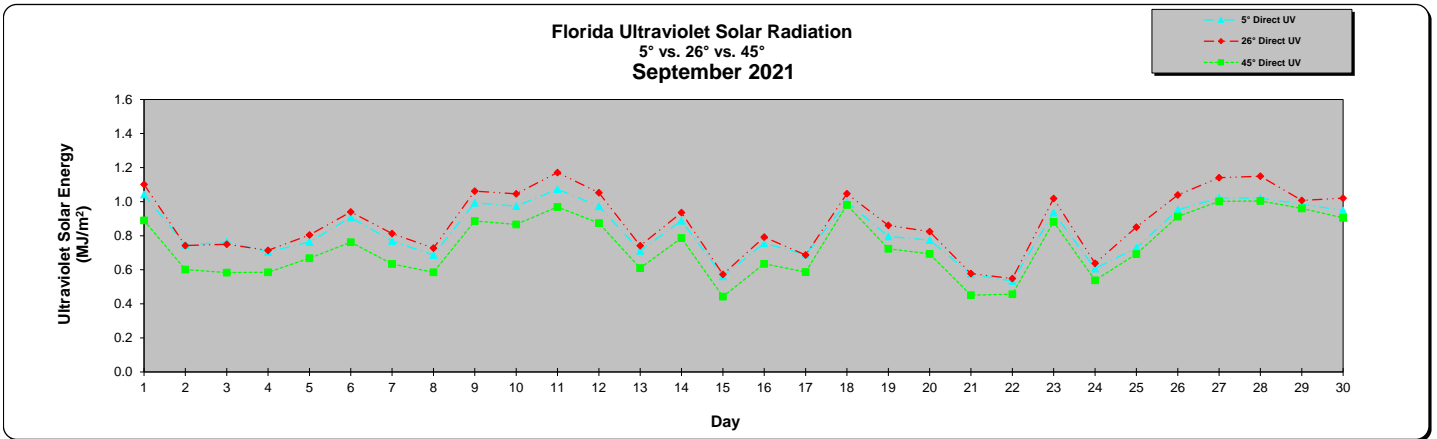
Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)

Solar Radiation Summary												Solar Radiation Summary																	
Miami, Florida												Phoenix, Arizona																	
Month	Total Solar Radiation (MJ/m2)						Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )						Total Solar Radiation (MJ/m2)						Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )						EMMAQUA™				
September	Direct			Underglass			Direct			Underglass			Direct			Underglass			Direct			Underglass			Total	UV			
Day	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	Total	UV
1	22.7	23.4	20.8	19.0	19.8	18.4	1.04	1.10	0.89	0.67	0.72	0.60	19.9	20.1	19.3	16.8	17.3	17.3	1.05	0.95	0.92	0.71	0.71	0.62	0	0.00			
2	14.1	15.2	13.1	11.8	12.2	11.5	0.74	0.74	0.60	0.48	0.48	0.40	24.1	25.1	24.3	20.2	21.7	21.7	1.18	1.09	1.07	0.80	0.83	0.72	114	3.75			
3	13.3	14.1	11.8	10.9	11.5	9.9	0.76	0.75	0.58	0.49	0.49	0.39	24.8	25.9	25.1	20.7	22.2	22.3	1.13	1.14	1.12	0.78	0.86	0.74	170	5.65			
4	13.5	13.3	12.3	11.0	11.1	10.2	0.70	0.71	0.59	0.44	0.46	0.38	25.3	26.6	25.9	21.0	22.8	23.0	1.16	1.17	1.15	0.80	0.88	0.77	164	6.03			
5	15.0	16.3	14.1	12.4	12.9	12.2	0.76	0.80	0.67	0.49	0.52	0.44	24.8	26.0	25.4	20.7	22.4	22.6	1.13	1.14	1.13	0.78	0.86	0.75	0	0.00			
6	17.8	19.2	16.7	14.7	15.5	14.6	0.91	0.94	0.76	0.58	0.61	0.51	24.7	26.1	25.4	20.5	22.3	22.5	1.12	1.15	1.13	0.77	0.86	0.75	0	0.00			
7	15.1	16.4	14.0	12.4	12.9	12.2	0.77	0.81	0.63	0.49	0.53	0.42	24.2	25.6	25.1	20.1	21.9	22.2	1.07	1.09	1.08	0.74	0.82	0.71	170	5.46			
8	13.8	14.4	12.8	11.3	11.6	11.1	0.69	0.73	0.59	0.46	0.47	0.37	23.8	25.4	24.9	19.8	21.8	22.1	1.08	1.10	1.10	0.75	0.83	0.72	173	5.88			
9	20.8	22.3	19.6	17.4	18.4	17.6	0.99	1.06	0.89	0.66	0.69	0.60	24.0	25.5	25.0	19.9	22.0	22.4	1.06	1.07	1.07	0.73	0.82	0.71	154	5.06			
10	20.3	21.8	19.7	17.0	17.9	17.2	0.97	1.05	0.87	0.65	0.68	0.58	23.9	25.6	25.1	19.9	22.1	22.5	1.07	1.09	1.09	0.74	0.83	0.72	176	5.96			
11	22.7	25.0	22.2	18.9	20.2	19.5	1.07	1.17	0.97	0.71	0.76	0.65	23.6	25.4	24.7	19.6	21.8	22.4	1.07	1.10	1.09	0.74	0.76	0.73	159	5.68			
12	19.2	20.9	18.5	16.0	16.8	16.3	0.97	1.05	0.87	0.64	0.68	0.58	24.1	26.1	25.0	20.1	22.5	23.0	1.08	1.12	1.11	0.75	0.76	0.74	175	6.11			
13	12.7	13.7	12.1	10.6	10.9	10.7	0.71	0.74	0.61	0.47	0.48	0.41	23.9	26.0	25.1	19.9	22.4	23.0	1.06	1.13	1.10	0.73	0.75	0.73	181	6.14			
14	16.9	18.2	16.6	14.2	14.8	14.7	0.89	0.94	0.79	0.58	0.61	0.53	23.3	25.4	27.1	19.4	22.0	20.9	1.01	1.18	1.05	0.70	0.73	0.70	165	5.12			
15	9.1	9.3	8.4	7.4	7.4	7.1	0.56	0.57	0.44	0.35	0.35	0.29	23.6	25.9	27.6	19.6	22.4	20.9	1.01	1.19	1.05	0.70	0.73	0.70	170	5.17			
16	14.2	15.5	13.9	11.9	12.4	12.0	0.76	0.79	0.64	0.49	0.51	0.43	23.4	26.0	27.7	19.5	22.4	22.2	1.03	1.21	1.07	0.71	0.74	0.71	175	5.50			
17	13.8	14.4	12.8	11.3	11.6	11.1	0.69	0.69	0.59	0.47	0.48	0.37	14.9	14.9	15.6	12.1	12.6	11.8	0.71	0.74	0.65	0.49	0.46	0.43	10	0.38			
18	21.0	23.3	21.3	18.2	18.9	18.7	1.00	1.05	0.98	0.67	0.71	0.62	18.9	20.6	21.7	16.0	17.9	16.7	0.89	1.03	0.91	0.62	0.63	0.60	0	0.00			
19	15.7	17.5	15.7	13.8	14.0	13.8	0.80	0.86	0.72	0.53	0.56	0.48	21.9	24.5	26.1	18.2	21.1	20.2	1.00	1.18	1.05	0.69	0.72	0.70	99	3.55			
20	14.2	15.6	14.0	12.3	12.5	12.4	0.77	0.82	0.69	0.51	0.53	0.46	23.3	26.3	28.2	19.4	22.8	21.8	1.03	1.23	1.10	0.71	0.76	0.73	185	6.38			
21	9.5	9.9	8.8	8.2	7.9	7.6	0.57	0.58	0.45	0.36	0.37	0.33	23.4	26.6	28.6	19.4	23.2	22.3	1.02	1.23	1.10	0.71	0.76	0.73	146	5.06			
22	9.1	9.8	8.9	7.9	7.9	7.8	0.53	0.55	0.46	0.35	0.36	0.31	23.0	26.4	28.4	19.2	22.8	23.7	1.02	1.22	1.09	0.71	0.75	0.73	184	6.26			
23	19.2	19.4	19.2	16.4	17.0	17.0	0.94	1.02	0.88	0.63	0.66	0.59	21.2	24.4	26.2	17.9	21.0	22.1	0.97	1.17	1.05	0.68	0.72	0.70	165	5.82			
24	10.8	12.0	11.2	9.4	9.9	9.7	0.61	0.64	0.54	0.40	0.43	0.36	17.2	19.0	20.2	14.4	14.0	17.0	0.81	0.92	0.81	0.56	0.57	0.55	0	0.00			
25	14.8	16.8	15.4	12.8	13.5	13.5	0.73	0.85	0.69	0.52	0.55	0.46	17.2	20.2	21.3	14.9	14.5	18.0	0.83	0.99	0.88	0.59	0.61	0.60	0	0.00			
26	19.6	22.5	20.7	16.8	18.0	18.2	0.95	1.04	0.91	0.65	0.68	0.61	2.4	2.1	2.1	2.0	0.2	1.7	0.15	0.15	0.13	0.11	0.09	0.09	0	0.00			
27	22.6	26.5	24.3	19.5	21.4	21.4	1.02	1.14	1.00	0.68	0.74	0.67	11.4	11.6	12.0	9.7	6.3	10.2	0.59	0.64	0.56	0.42	0.40	0.38	0	0.00			
28	22.9	26.7	24.5	19.5	21.5	21.6	1.02	1.15	1.00	0.68	0.75	0.67	19.5	22.3	24.0	16.4	15.7	20.3	0.86	1.02	0.92	0.61	0.63	0.62	112	3.53			
29	21.3	25.0	23.2	18.3	20.1	20.2	0.99	1.01	0.96	0.65	0.72	0.64	14.5	15.3	16.2	12.1	10.8	13.4	0.68	0.74	0.66	0.47	0.46	0.44	0	0.00			
30	20.2	23.4	21.8	17.1	18.7	18.7	0.95	1.02	0.91	0.62	0.66	0.61	19.9	23.1	25.0	16.8	17.3	21.1	0.90	1.09	0.98	0.63	0.68	0.67	148	4.97			
Monthly Total	496.0	541.7	488.7	418.6	439.4	426.7	24.88	26.38	22.17	16.37	17.24	14.75	630.7	683.8	698.1	526.0	570.0	591.0	28.80	31.26	29.19	19.91	21.00	19.45	3193	107.47			
YTD <sup>†</sup> Total	4971.3	5317.8	4662.9	4069.4	4251.4	3982.5	260.99	290.39	243.53	166.56	181.69	149.84	6071.7	6254.1	6062.7	5119.3	5334.2	5319.8	294.37	277.83	270.00	202.29	202.72	183.10	27589.21	897.38			

<sup>†</sup> Year To Date

Note: Total Solar Radiation - (290-3000 nm) Ultraviolet Solar Radiation - (295-385 nm).

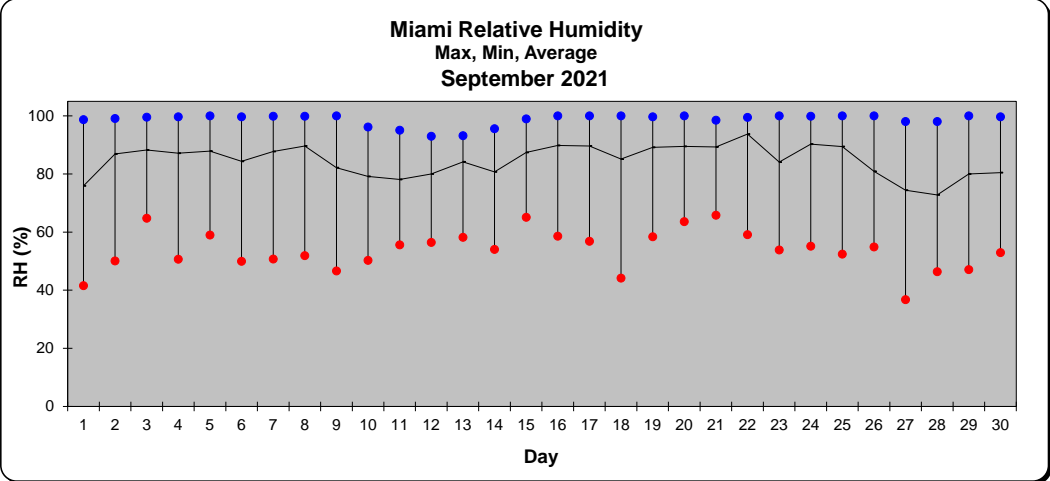
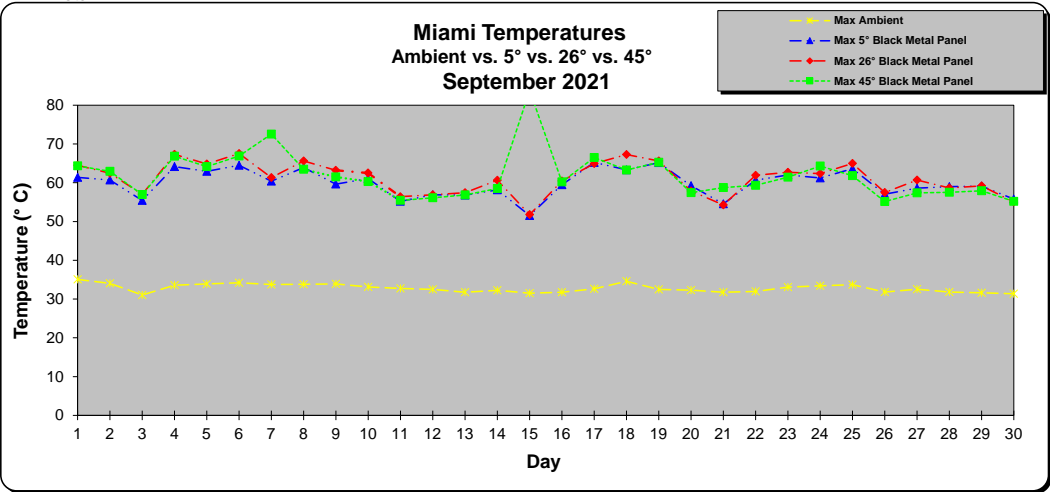




Latitude 25° 34' North, Longitude 80° 28' West, Elevation 2 (m)

Month	Temperature Summary												Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity			Wind Speed		Wind Direction	Rainfall
	(° C)			5 °			26 °			45 °			(%)			m/sec		360°/0°=N	(mm)
September	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Avg.	Avg	Total
1	35	23	28	61	22	34	65	22	34	64	22	35	99	42	76	4.9	0.0	224°	0.0
2	34	23	26	61	-246	26	62	22	29	63	17	32	99	50	87	4.9	0.0	168°	12.2
3	31	22	26	55	-125	29	57	21	29	57	11	31	100	65	88	4.2	0.0	172°	3.6
4	34	22	26	64	21	29	67	21	29	67	11	30	100	51	87	6.0	0.0	184°	49.0
5	34	22	26	63	21	29	65	21	29	64	18	32	100	59	88	4.5	0.0	178°	32.5
6	34	22	26	64	20	31	68	20	31	67	7	40	100	50	84	6.4	0.0	176°	64.0
7	34	22	26	60	20	29	61	20	29	73	23	43	100	51	88	4.3	0.0	134°	1.5
8	34	23	26	64	22	29	66	22	29	63	16	29	100	52	90	6.6	0.0	124°	40.9
9	34	22	27	60	21	32	63	21	32	62	15	32	100	47	82	6.6	0.0	171°	3.6
10	33	23	27	61	21	32	63	21	32	60	19	32	96	50	79	3.7	0.0	125°	0.0
11	33	22	28	55	21	33	56	21	33	55	21	33	95	56	78	5.1	0.0	77°	0.0
12	32	25	28	57	23	31	57	23	31	56	19	32	93	57	80	6.7	0.0	93°	2.0
13	32	24	27	57	23	29	57	23	29	57	14	27	93	58	84	5.5	0.0	88°	0.8
14	32	23	27	58	22	31	61	22	31	59	17	30	96	54	81	5.8	0.0	117°	1.5
15	32	23	26	52	21	27	52	21	27	54	21	28	99	65	87	4.6	0.0	154°	37.8
16	32	22	25	59	21	29	60	21	29	60	21	29	100	59	90	5.2	0.0	177°	0.0
17	33	22	25	65	21	29	65	21	29	67	20	29	100	57	90	5.5	0.0	184°	25.7
18	35	22	27	63	21	33	67	21	33	63	14	33	100	44	85	5.9	0.0	162°	22.6
19	32	23	27	65	22	31	66	22	31	65	23	31	100	58	89	4.2	0.0	147°	0.0
20	32	23	26	59	22	30	58	22	30	57	22	30	100	64	90	4.7	0.0	123°	0.3
21	32	24	26	55	23	29	54	23	29	59	23	29	99	66	89	4.7	0.0	158°	2.0
22	32	23	25	61	22	27	62	22	27	59	17	27	100	59	94	5.8	0.0	159°	2.0
23	33	22	26	62	21	32	63	21	32	61	12	30	100	54	84	4.1	0.0	184°	0.3
24	33	23	26	61	22	29	62	22	29	64	17	30	100	55	90	3.4	0.0	164°	24.6
25	34	22	26	64	21	29	65	21	30	62	21	29	100	52	89	5.1	0.0	164°	29.5
26	32	22	27	57	20	31	57	21	31	55	20	31	100	55	81	5.5	0.0	95°	0.0
27	33	20	26	59	18	31	61	18	31	57	18	31	98	37	74	4.5	0.0	68°	0.0
28	32	20	26	59	19	31	59	19	31	58	18	30	98	46	73	5.1	0.0	91°	0.0
29	32	19	25	59	18	30	59	17	30	58	17	30	100	47	80	4.5	0.0	112°	0.0
30	31	20	25	56	19	30	55	19	30	55	18	30	100	53	80	5.6	0.0	113°	0.0
Monthly Avg.	33	22	26	60	7	30	61	21	30	62	18	31	99	54	85	5.1	0.0	143°	
Monthly Total																			356.4
YTD <sup>†</sup> Avg.	30	20	25	54	17	28	55	18	28	55	18	30	96	52	79	13.1	0.4	106°	
YTD <sup>†</sup> Total																			1314.6

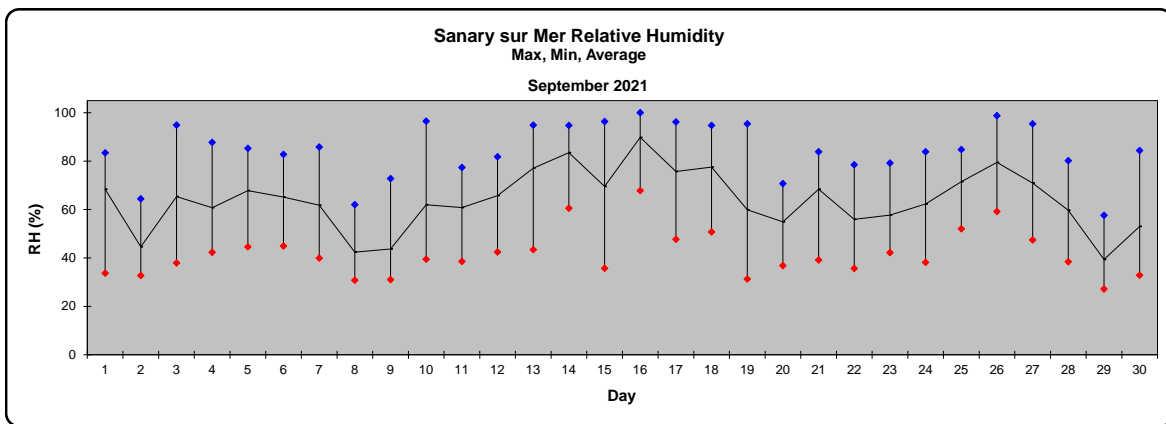
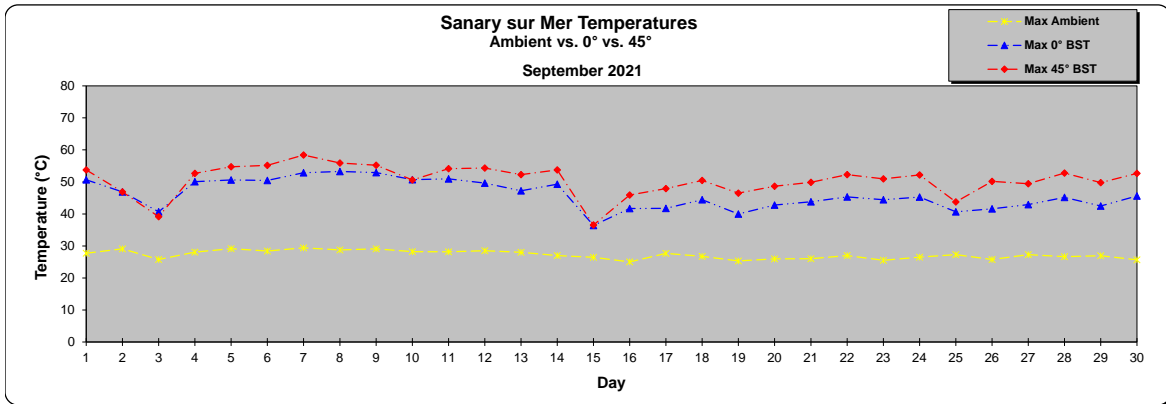
<sup>†</sup> Year To Date  
Note:



AWSG		Temperature Summary																		Climate Summary								
Month	Ambient Temperature			Black Standard Temperature BST (°C)						Black Panel Temperature BPT (°C)						Black Metal Panel Temperature (ASTM G179) (°C)						Relative Humidity (%)			Wind Speed (m/s)		Wind Direction 360°/90°=N	Rainfall (mm)
September	°C			0°			45°			0°			45°			0°			45°									
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	28	17	22	51	14	28	54	14	28	43	14	26	48	13	26	48	14	27	54	14	28	83	34	68	7.4	1.2	78°	0.0
2	29	19	24	47	17	25	47	17	25	39	16	24	43	16	24	44	15	24	46	17	25	64	33	45	9.3	1.7	87°	0.0
3	26	19	22	41	16	22	39	16	22	35	16	25	39	16	22	39	16	23	41	17	23	95	38	65	6.5	1.3	76°	3.3
4	28	18	23	50	16	28	53	17	29	43	16	26	46	16	27	50	17	27	53	17	29	88	42	61	4.8	0.8	286°	0.3
5	29	17	23	51	14	28	55	15	29	45	14	26	49	14	27	52	15	28	57	15	29	85	45	68	4.3	0.8	301°	0.0
6	28	19	24	50	17	29	55	16	30	46	16	27	50	16	28	53	16	29	57	17	30	83	45	65	4.4	0.8	7°	0.0
7	29	19	23	53	16	29	58	16	30	44	16	26	55	16	28	54	16	29	61	17	30	86	40	62	4.6	0.9	72°	0.0
8	29	19	24	53	16	28	56	16	28	43	16	24	50	15	27	52	16	27	56	16	28	62	31	42	7.8	1.7	91°	0.0
9	29	23	25	53	21	29	55	21	29	46	21	27	50	20	28	51	21	28	56	21	29	73	31	44	7.2	2.2	97°	0.0
10	28	20	23	51	17	24	51	17	24	45	17	24	47	17	24	51	17	25	54	18	25	97	39	62	5.6	1.1	73°	2.8
11	28	17	23	51	15	28	54	15	29	46	15	26	50	14	27	50	15	27	55	15	29	77	39	61	4.4	0.7	283°	0.0
12	29	17	23	50	15	27	54	15	29	43	15	26	48	14	27	49	15	27	54	15	29	82	42	66	4.6	0.8	285°	0.0
13	28	18	23	47	15	26	52	15	27	43	15	25	47	14	26	48	15	26	54	15	27	95	43	77	5.2	0.8	317°	0.0
14	27	20	23	49	19	26	54	18	27	42	19	24	49	18	26	50	14	25	56	19	27	95	61	84	5.8	1.5	90°	0.0
15	26	22	24	36	21	25	37	20	25	36	21	25	36	20	24	39	21	25	40	21	25	96	36	70	7.9	1.8	91°	0.5
16	25	19	22	42	17	23	46	17	24	43	17	23	46	17	24	47	17	24	51	17	25	100	68	90	5.6	0.8	256°	6.9
17	28	17	22	42	15	25	48	14	27	39	15	23	43	15	25	43	15	25	49	15	27	96	48	76	7.4	1.1	271°	0.0
18	27	18	22	44	16	26	50	16	27	41	16	25	45	16	26	48	16	26	53	16	28	95	51	78	5.1	0.9	266°	0.3
19	25	16	20	40	13	23	46	13	25	36	13	22	41	13	23	42	13	23	47	14	25	95	31	60	7.7	1.4	276°	0.3
20	26	16	21	43	13	24	49	13	25	38	13	23	44	13	24	44	13	24	50	13	26	71	37	55	7.3	1.4	274°	0.0
21	26	14	19	44	11	23	50	11	25	38	11	23	45	11	23	44	12	23	50	12	25	84	39	68	7.9	1.2	72°	0.0
22	27	17	21	45	14	25	52	14	27	39	14	22	48	13	25	46	14	25	53	14	27	79	36	56	4.1	0.9	20°	0.0
23	26	15	21	44	13	24	51	13	26	39	12	23	45	12	24	43	13	24	51	13	26	79	42	58	7.6	1.4	68°	0.0
24	26	16	21	45	13	25	52	13	26	42	13	23	48	13	25	47	13	25	55	14	27	84	38	62	3.7	0.8	8°	0.0
25	27	17	23	41	15	24	44	15	24	42	15	24	42	14	24	42	15	24	48	15	25	85	52	72	7.6	1.6	87°	0.0
26	26	18	22	42	16	24	50	15	24	41	16	23	49	15	24	44	16	24	53	16	25	99	59	80	6.6	1.1	82°	20.8
27	27	16	21	43	14	23	49	13	24	42	14	23	45	13	23	44	14	23	51	14	25	95	47	71	5.5	1.0	299°	0.0
28	27	16	21	45	14	25	53	14	27	44	13	23	50	13	26	46	14	24	55	14	27	80	38	60	3.5	0.7	11°	0.0
29	27	18	23	43	15	25	50	15	27	39	15	24	46	15	26	44	15	25	51	15	27	58	27	39	8.0	1.4	279°	0.0
30	26	14	20	46	11	24	53	11	26	43	11	23	50	11	24	46	11	23	54	11	26	84	33	53	5.2	0.7	243°	0.0
Monthly Avg.	27	18	22	46	15	26	51	15	27	42	15	24	47	15	25	47	15	25	52	16	27	85	42	64	6.1	1.1	158°	
Monthly Total																										35.1		
YTD <sup>†</sup> Avg.	23	13	17	47	14	25	50	14	25	45	14	25	45	13	24	49	14	25	51	14	25	83	40	62	6.2	1.2	181°	
YTD <sup>†</sup> Total																										318.3		

<sup>†</sup> Year To Date

Note: \*No data available

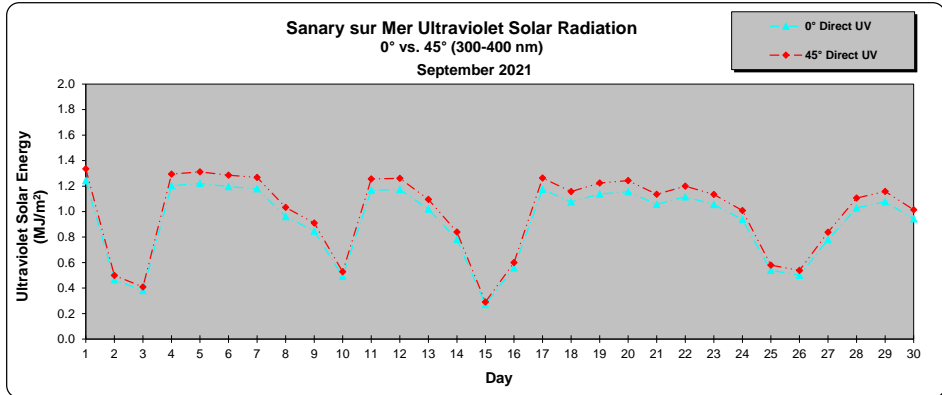
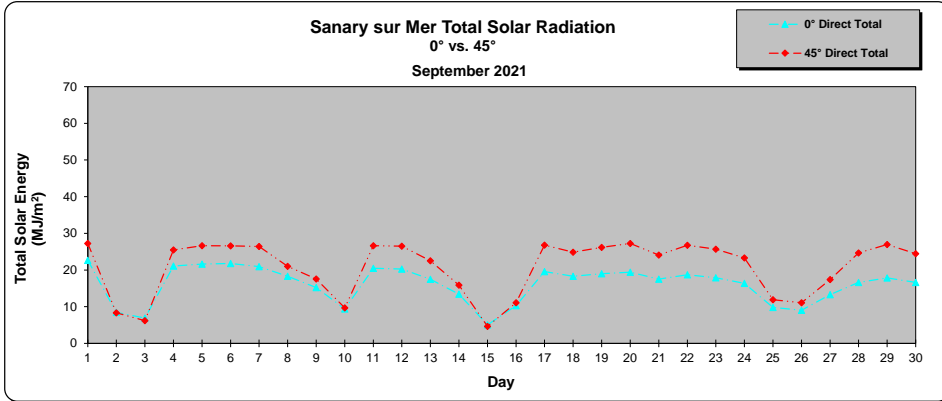


**Solar Radiation Summary  
September 2021  
Sanary sur Mer, France**

Latitude 43° 08' North, Longitude 05° 49' East, Elevation 110 (m)

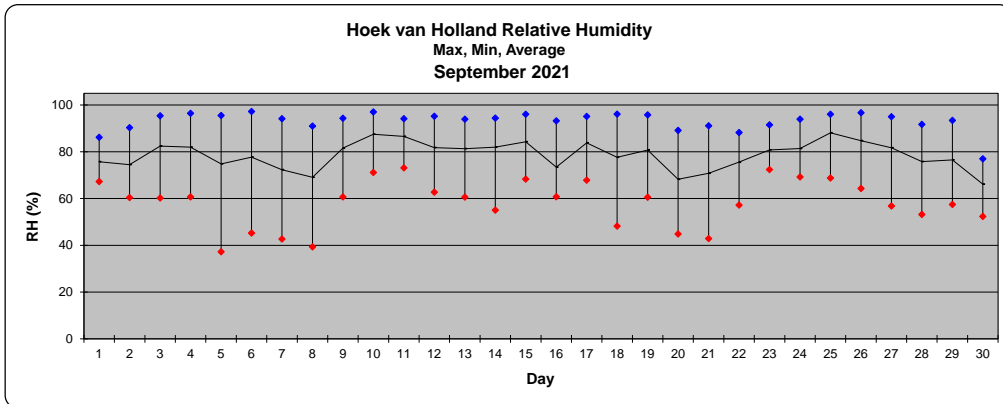
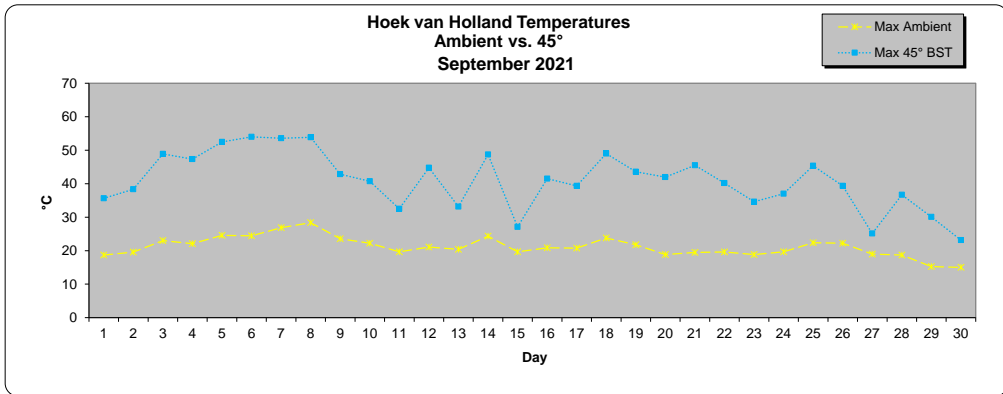
AWSG Solar Radiation Summary						
Month	Total Solar Radiation (MJ/m <sup>2</sup> )		Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )			
September	Direct		295-385 nm		300-400 nm	
Day	0°	45°	0°	45°	0°	45°
1	22.7	27.2	0.94	1.02	1.24	1.34
2	8.4	8.3	0.35	0.38	0.47	0.50
3	6.9	6.2	0.29	0.31	0.38	0.41
4	21.1	25.5	0.92	0.98	1.20	1.29
5	21.6	26.6	0.93	1.00	1.22	1.31
6	21.8	26.6	0.91	0.98	1.20	1.29
7	20.9	26.4	0.90	0.97	1.18	1.27
8	18.3	21.0	0.73	0.79	0.96	1.03
9	15.2	17.6	0.64	0.69	0.85	0.91
10	9.4	9.7	0.37	0.40	0.49	0.53
11	20.5	26.6	0.89	0.96	1.17	1.26
12	20.3	26.5	0.89	0.96	1.17	1.26
13	17.5	22.6	0.78	0.83	1.02	1.10
14	13.4	15.9	0.59	0.64	0.78	0.84
15	5.1	4.6	0.21	0.22	0.27	0.29
16	10.3	11.1	0.43	0.46	0.56	0.60
17	19.6	26.8	0.89	0.96	1.17	1.26
18	18.3	24.9	0.82	0.88	1.08	1.16
19	19.0	26.2	0.87	0.93	1.14	1.22
20	19.4	27.3	0.88	0.95	1.16	1.24
21	17.5	24.1	0.80	0.86	1.06	1.14
22	18.7	26.8	0.85	0.91	1.12	1.20
23	17.9	25.7	0.80	0.86	1.06	1.14
24	16.4	23.3	0.71	0.77	0.94	1.01
25	9.8	11.9	0.41	0.44	0.54	0.58
26	9.0	11.1	0.38	0.41	0.50	0.54
27	13.3	17.4	0.59	0.64	0.78	0.84
28	16.6	24.7	0.78	0.84	1.03	1.11
29	17.9	27.0	0.82	0.88	1.08	1.16
30	16.6	24.5	0.72	0.77	0.94	1.01
<b>Monthly Total</b>	<b>483.4</b>	<b>623.8</b>	<b>21.10</b>	<b>22.69</b>	<b>27.73</b>	<b>29.82</b>
<b>YTD<sup>1</sup> Total</b>	<b>4958.6</b>	<b>5582.5</b>	<b>233.63</b>	<b>245.28</b>	<b>244.99</b>	<b>252.61</b>

<sup>1</sup> Year To Date Total Solar Radiation - (290-3000 nm) Ultraviolet Solar Radiation - (295-385 nm) or (300-400 nm).  
Note:



AWSG	Temperature Summary						Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
Month	°C			45 °			%			(m/s)		360°/0°= N	(mm)
September	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	19	15	17	36	12	16	86	67	76	7.2	2.8	353°	0.0
2	20	13	16	38	7	16	90	60	75	7.4	2.3	14°	0.0
3	23	12	17	49	5	20	95	60	82	8.0	2.7	17°	0.0
4	22	12	16	47	8	20	96	61	82	7.6	2.8	30°	0.0
5	25	11	17	52	5	21	96	37	75	5.9	1.5	28°	0.0
6	24	12	18	54	6	20	97	45	78	4.3	1.0	13°	0.0
7	27	14	20	54	8	24	94	43	72	4.9	0.9	73°	0.0
8	28	14	21	54	8	25	91	39	69	4.6	0.8	60°	0.0
9	24	14	19	43	9	20	94	61	82	7.1	1.6	153°	0.8
10	22	18	20	41	13	18	97	71	88	9.2	2.8	178°	0.0
11	20	17	19	33	14	17	94	73	87	8.4	4.2	201°	0.3
12	21	15	17	45	8	20	95	63	82	7.4	3.2	242°	0.0
13	20	13	16	33	6	15	94	61	81	4.7	1.2	29°	0.0
14	24	13	18	49	8	19	94	55	82	4.6	1.3	77°	0.0
15	20	16	18	27	12	16	96	68	84	8.3	3.7	266°	0.0
16	21	15	18	41	8	20	93	61	73	7.4	3.5	272°	0.0
17	21	14	18	39	8	18	95	68	84	5.4	2.1	192°	0.0
18	24	14	18	49	9	19	96	48	78	3.7	0.9	66°	0.0
19	22	12	16	44	6	18	96	61	81	4.4	1.0	40°	0.0
20	19	10	14	42	3	15	89	45	68	7.8	1.7	23°	0.0
21	19	8	14	45	0	16	91	43	71	5.2	1.7	292°	0.0
22	20	14	17	40	7	18	88	57	76	6.0	2.9	178°	0.0
23	19	15	17	35	10	16	92	72	81	11.2	4.7	228°	0.0
24	20	15	18	37	9	19	94	69	81	10.7	3.7	199°	0.0
25	22	14	18	45	8	18	96	69	88	8.0	2.5	161°	0.0
26	22	13	18	39	8	18	97	64	85	7.2	2.4	133°	0.3
27	19	16	17	25	11	14	95	57	82	14.9	5.0	173°	3.0
28	19	13	15	37	8	16	92	53	76	9.5	4.6	153°	0.0
29	15	11	14	30	6	12	93	57	77	17.0	6.4	223°	15.0
30	15	13	14	23	9	11	77	52	66	12.6	6.7	200°	0.0
Monthly Avg.	21	13	17	41	8	18	93	58	79	7.7	2.8	142°	
Monthly Total													19.3
YTD <sup>1</sup> Avg.	15	8	12	30	3	11	93	62	80	9.4	3.7	197°	
YTD <sup>1</sup> Total													549.9

<sup>1</sup> Year To Date For Pollution (SO2, NOx, O3) visit [www.lml.rivm.nl](http://www.lml.rivm.nl)  
Note: = 5 year average



North Sea Corrosion Test Centre

## Solar Radiation Summary

September 2021

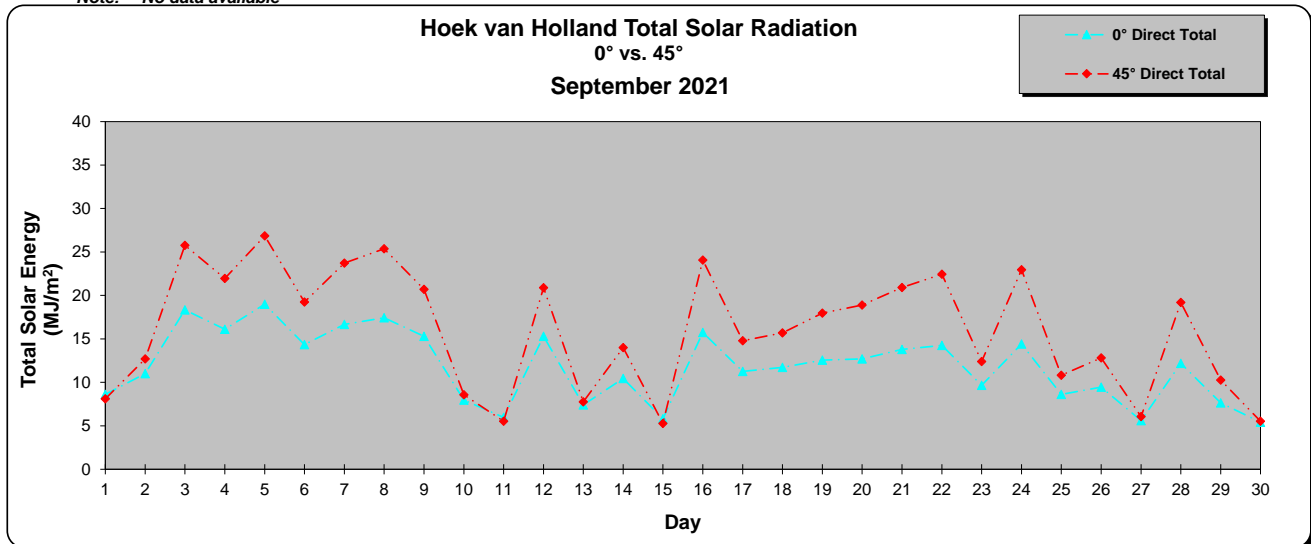
Hoek van Holland, The Netherlands

Latitude 51° 57' North, Longitude 04° 10' East Elevation 6 (m)

AWSG		Solar Radiation Summary	
Month	Total Solar Radiation (MJ/m <sup>2</sup> )		
September	Direct		
Day	0°	45°	
1	8.6	8.1	
2	11.0	12.7	
3	18.3	25.8	
4	16.1	22.0	
5	19.0	26.9	
6	14.3	19.3	
7	16.7	23.7	
8	17.4	25.4	
9	15.3	20.7	
10	8.0	8.6	
11	6.0	5.5	
12	15.3	20.9	
13	7.4	7.8	
14	10.5	14.0	
15	5.8	5.3	
16	15.7	24.1	
17	11.3	14.8	
18	11.7	15.7	
19	12.6	18.0	
20	12.7	18.9	
21	13.8	20.9	
22	14.3	22.5	
23	9.7	12.4	
24	14.4	23.0	
25	8.6	10.8	
26	9.5	12.8	
27	5.6	6.1	
28	12.2	19.2	
29	7.6	10.3	
30	5.4	5.5	
<b>Monthly Total</b>	<b>354.7</b>	<b>481.2</b>	
<b>YTD<sup>†</sup> Total</b>	<b>3507.9</b>	<b>4157.7</b>	

<sup>†</sup> Year To Date Total Solar Radiation - (290-3000nm)

Note: \* No data available

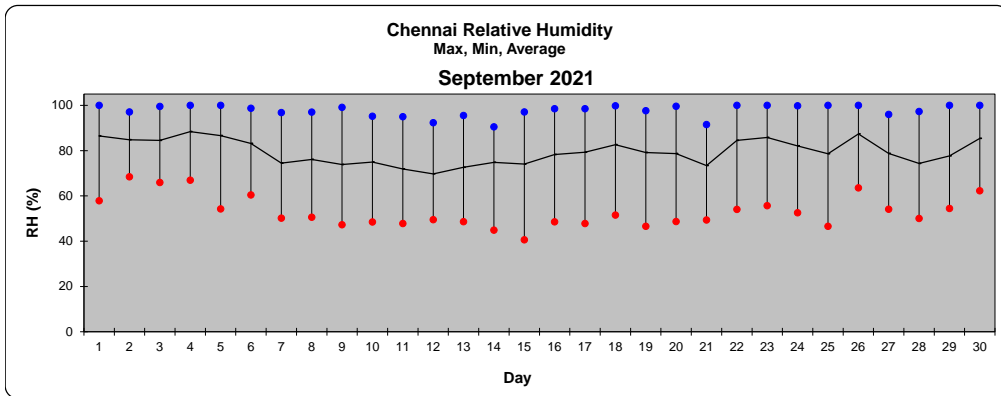
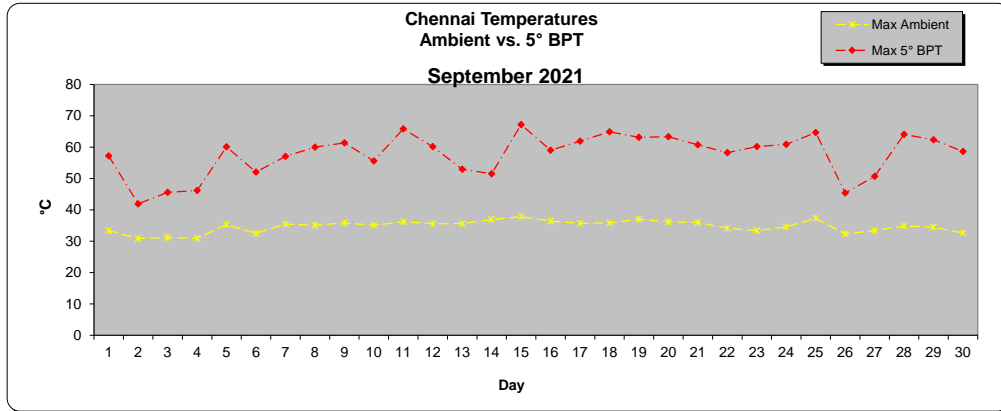




Latitude 12° 35' North, Longitude 79° 48' East Elevation 45 (m)

AWSG	Temperature Summary						Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
Month	° C			5 °			%			(m/s)		360°/0°= N	(mm)
September	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	33	26	29	57	24	31	100	58	87	4.9	0.6	22°	0.0
2	31	26	28	42	24	29	97	68	85	4.3	1.0	305°	0.0
3	31	25	28	46	24	30	100	66	85	5.1	1.2	266°	16.0
4	31	24	27	46	22	29	100	67	88	5.5	0.9	261°	14.2
5	35	25	28	60	23	32	100	54	87	8.6	0.9	275°	4.6
6	33	25	28	52	23	31	99	60	83	4.9	0.9	250°	3.3
7	36	26	30	57	24	34	97	50	74	5.2	1.0	265°	0.3
8	35	26	30	60	23	35	97	51	76	4.9	0.8	241°	0.0
9	36	25	30	61	23	35	99	47	74	4.9	0.8	285°	0.0
10	35	26	30	56	24	34	95	49	75	4.4	0.8	290°	0.0
11	36	27	31	66	25	36	95	48	72	4.3	0.9	277°	0.0
12	36	27	31	60	25	34	92	49	70	5.5	0.9	251°	0.0
13	36	26	30	53	23	34	96	49	73	4.8	1.0	244°	0.0
14	37	29	32	52	27	31	91	45	75	3.7	0.8	143°	0.0
15	38	26	31	67	24	37	97	41	74	4.3	0.8	89°	0.0
16	36	25	30	59	23	34	99	49	78	4.8	0.8	286°	2.0
17	36	25	30	62	23	33	99	48	79	4.7	0.9	343°	3.8
18	36	25	29	65	23	35	100	52	83	5.7	0.7	212°	1.5
19	37	24	30	63	22	35	98	47	79	5.0	0.7	230°	0.0
20	36	23	29	63	22	35	100	49	79	6.4	1.0	260°	10.2
21	36	25	30	61	23	35	92	49	73	5.4	1.1	277°	0.0
22	34	24	29	58	22	33	100	54	85	8.1	0.9	267°	47.5
23	33	26	29	60	25	32	100	56	86	5.7	0.6	293°	0.5
24	35	25	29	61	23	33	100	53	82	3.8	0.8	311°	0.0
25	37	26	30	65	24	36	100	47	79	4.9	0.7	290°	0.0
26	32	25	28	45	23	30	100	64	87	5.8	0.9	285°	5.8
27	33	26	29	51	24	32	96	54	79	4.1	0.9	267°	0.3
28	35	24	29	64	22	33	97	50	74	4.6	0.8	255°	0.0
29	34	26	29	62	23	33	100	54	78	3.5	0.7	306°	0.0
30	33	25	29	59	23	33	100	62	85	4.6	0.8	328°	20.1
Monthly Avg.	35	25	29	58	23	33	98	53	79	5.1	0.8	256°	
Monthly Total													130.0
YTD <sup>1</sup> Avg.	35	25	29	59	22	33	97	46	77	4.7	0.9	174°	
YTD <sup>1</sup> Total													808.0

<sup>1</sup> Year To Date  
Note: \* Data Unavailable



**Solar Radiation Summary  
September 2021  
Chennai, India**

Latitude 12° 35' North, Longitude 79° 48' East Elevation 45 (m)

Month	Solar Radiation Summary		
	Total Solar Radiation (MJ/m <sup>2</sup> )	Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )	
September	Direct	295-385 nm	300-400 nm
Day	5°	5°	
1	14.1	0.64	0.72
2	9.5	0.49	0.55
3	13.0	0.64	0.72
4	11.5	0.58	0.64
5	20.8	0.92	1.02
6	14.7	0.70	0.79
7	24.4	1.05	1.17
8	23.8	1.01	1.12
9	23.7	1.01	1.13
10	19.73	0.86	0.96
11	23.2	0.98	1.09
12	19.7	0.88	0.98
13	20.6	0.91	1.01
14	2.2	0.09	0.10
15	24.5	1.03	1.15
16	18.6	0.81	0.90
17	18.1	0.76	0.85
18	20.4	0.85	0.95
19	22.9	0.94	1.05
20	25.0	1.03	1.15
21	25.1	1.05	1.17
22	19.3	0.87	0.97
23	14.9	0.69	0.77
24	19.2	0.86	0.95
25	24.8	1.04	1.16
26	13.0	0.63	0.70
27	16.1	0.73	0.82
28	21.2	0.92	1.02
29	18.7	0.82	0.91
30	18.9	0.83	0.93
<b>Monthly Total</b>	<b>561.5</b>	<b>24.59</b>	<b>27.45</b>
<b>YTD<sup>1</sup> Total</b>	<b>5541.1</b>	<b>248.10</b>	<b>279.80</b>

<sup>1</sup> Year To Date Total Solar Radiation - (290-3000nm)

Note:

