



ATLAS

WEATHERING SERVICES GROUP

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

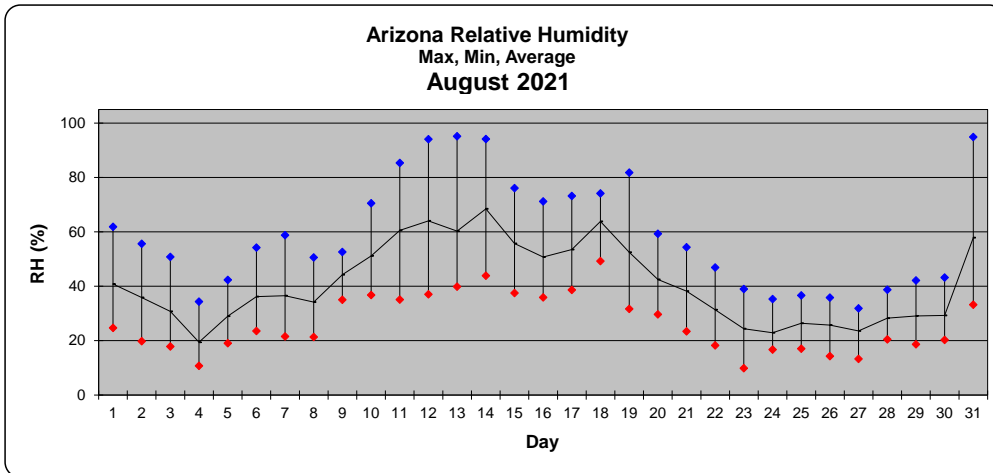
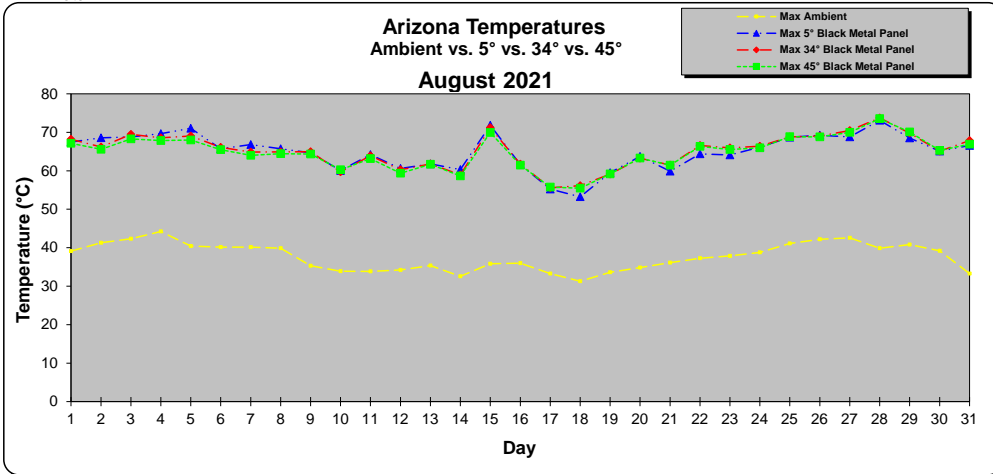


Weather Summary August 2021 Phoenix, Arizona

AWSG		Temperature Summary												Climate Summary					
Month	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity			Wind Speed		Wind Direction	Rainfall
August	(° C)			5 °			34 °			45 °			(%)			m/sec		360°/70° = N	(mm)
Day	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Min	Avg.	Max	Avg.	°	Total
1	39	26	33	67	25	40	68	25	39	67	25	39	62	25	41	6.6	1.8	60°	0.0
2	41	28	34	69	26	41	66	26	41	66	26	41	56	20	36	6.8	1.6	55°	0.0
3	42	28	35	69	26	42	69	26	41	68	27	41	51	18	31	8.4	1.6	45°	0.0
4	44	29	37	70	27	42	69	27	42	68	27	42	34	11	19	8.5	2.1	8°	0.0
5	40	29	35	71	25	41	69	26	41	68	26	41	42	19	29	8.1	1.7	112°	0.0
6	40	29	35	66	26	41	66	26	40	65	27	40	54	24	36	9.0	1.5	213°	0.0
7	40	28	34	67	25	40	65	25	40	64	26	40	59	22	37	10.4	1.5	203°	0.0
8	40	28	34	66	26	40	65	26	40	64	26	40	51	21	34	8.8	1.8	216°	0.0
9	35	27	31	65	25	35	65	25	35	64	25	35	53	35	44	9.4	1.6	187°	0.0
10	34	26	29	60	25	35	60	25	35	60	26	35	71	37	51	7.7	2.0	152°	0.0
11	34	23	27	64	22	31	64	22	31	63	22	31	85	35	61	12.9	1.9	113°	3.3
12	34	19	27	61	19	33	60	19	33	59	19	33	94	37	64	11.9	1.2	78°	20.8
13	35	21	29	62	21	35	62	21	35	62	21	35	95	40	60	16.1	1.8	173°	1.0
14	33	22	27	60	22	34	59	22	34	59	22	34	94	44	68	7.1	1.4	198°	6.9
15	36	26	31	72	24	37	71	24	37	70	24	37	76	38	56	8.8	1.2	14°	0.0
16	36	27	31	62	25	38	62	25	38	61	25	38	71	36	51	10.5	1.4	179°	0.0
17	33	23	28	55	22	34	56	22	34	56	22	34	73	39	54	11.5	1.5	173°	0.0
18	31	24	27	53	21	30	56	22	30	55	22	30	74	49	64	10.1	2.3	97°	0.0
19	34	22	28	60	20	34	59	20	34	59	20	34	82	32	53	7.4	1.5	152°	0.0
20	35	25	30	64	23	35	63	24	36	63	24	36	59	30	43	6.7	1.7	78°	0.0
21	36	24	30	60	22	36	61	23	36	61	23	37	54	23	38	8.4	1.9	77°	0.0
22	37	24	31	64	22	37	67	22	37	66	23	37	47	18	31	6.7	1.7	64°	0.0
23	38	24	31	64	21	36	66	22	37	66	22	37	39	10	24	7.3	1.8	80°	0.0
24	39	25	32	66	23	38	66	23	38	66	23	38	35	17	23	5.9	1.7	64°	0.0
25	41	27	34	69	25	40	69	25	40	69	25	40	37	17	26	7.9	2.1	66°	0.0
26	42	28	35	69	27	41	69	27	41	69	27	41	36	14	26	7.2	2.0	74°	0.0
27	43	29	36	69	27	41	70	27	41	70	27	41	32	13	24	10.6	2.0	86°	0.0
28	40	28	34	73	24	39	74	25	39	74	25	40	39	21	28	7.1	1.3	129°	0.0
29	41	28	34	69	26	40	70	27	41	70	27	41	42	19	29	11.1	1.8	51°	0.0
30	39	27	33	65	26	38	65	26	39	65	26	39	43	20	29	9.6	1.7	117°	0.0
31	33	23	28	67	23	32	68	23	31	67	23	32	95	33	58	7.7	1.8	195°	0.0
Monthly Avg.	38	26	32	65	24	37	65	24	37	65	24	37	59	26	41	8.9	1.7	113°	
Monthly Total																			32.0
YTD [†] Avg.	30	17	23	54	14	28	56	15	28	56	15	28	49	20	33	9.3	2.0	120°	
YTD [†] Total																			292.6

[†] Year To Date

Note:





Solar Radiation Summary August 2021 Phoenix, Arizona

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

Miami, Florida

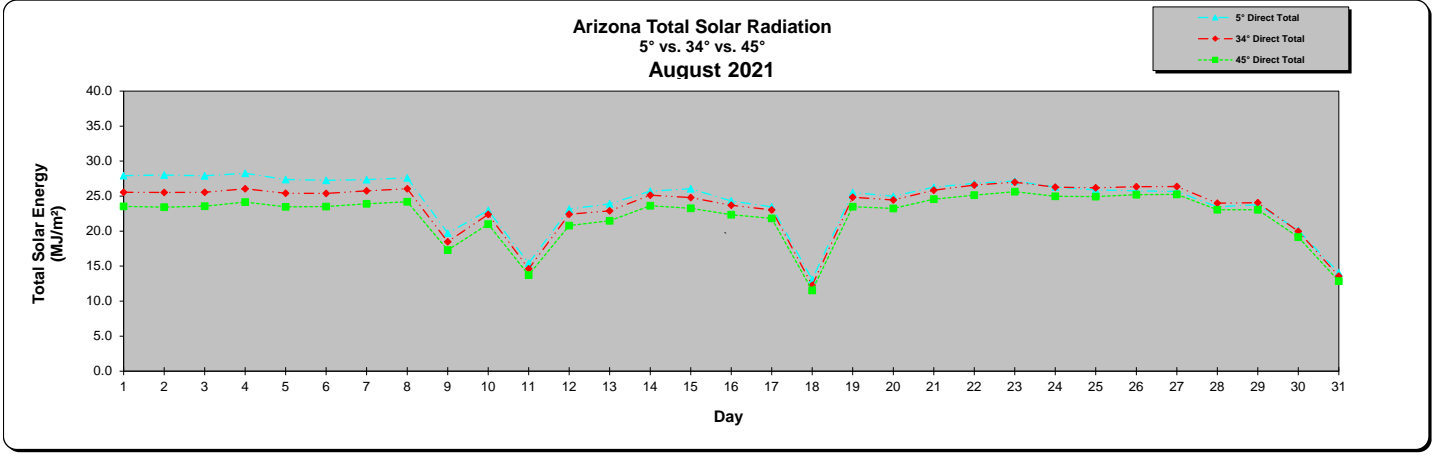
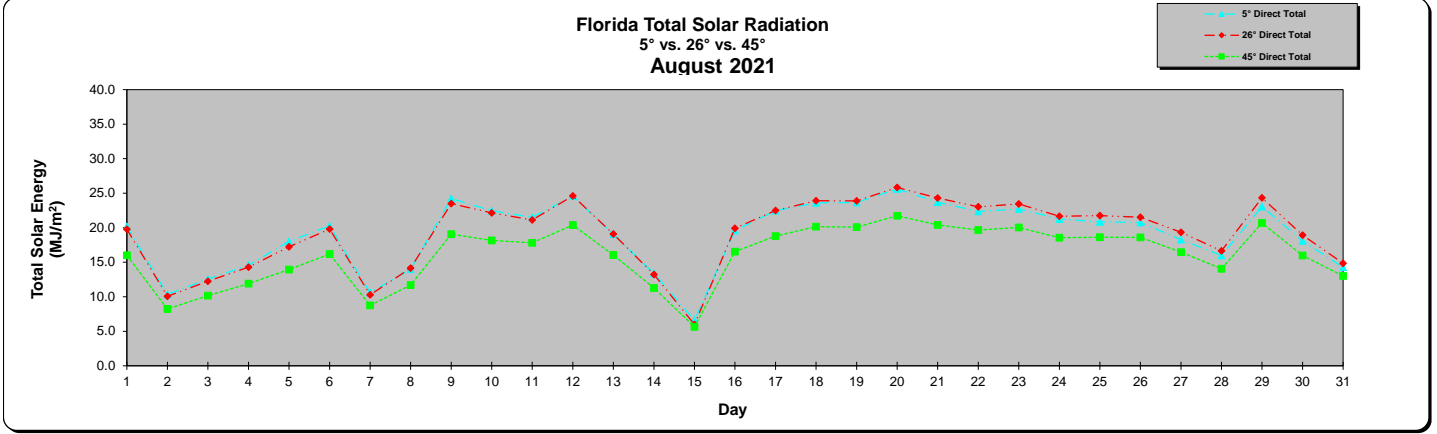
Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (m)

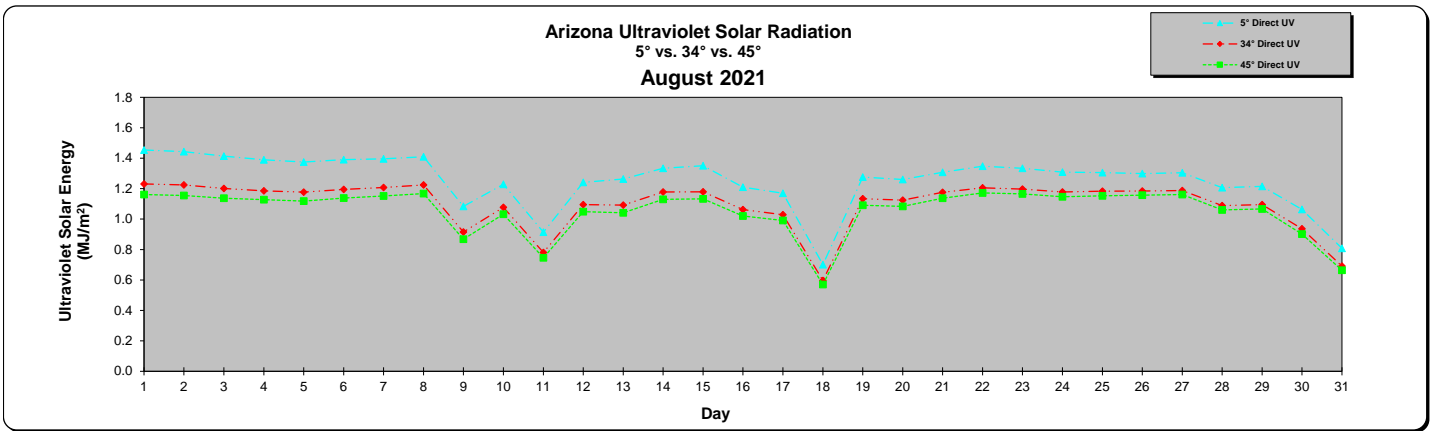
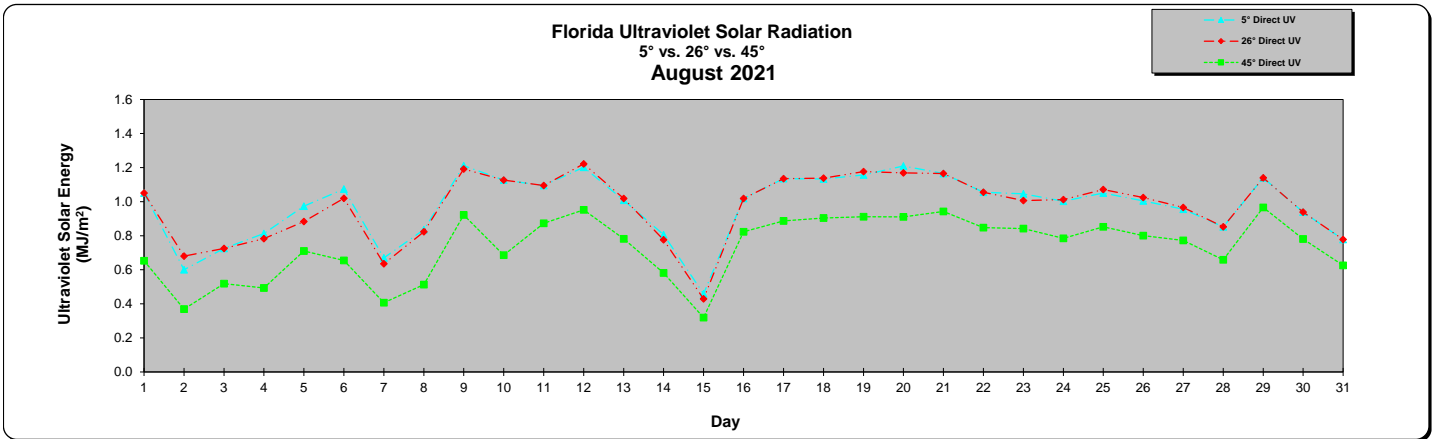
Solar Radiation Summary													
Month	Total Solar Radiation (MJ/m2)						Ultraviolet Solar Radiation (MJ/m ²)						
	Direct			Underglass			Direct			Underglass			
August	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	26°	45°	
Day	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	26°	45°	
1	20.2	19.8	16.0	16.8	16.2	14.0	1.05	1.05	0.65	0.66	0.69	0.55	
2	10.4	10.1	8.2	8.3	7.9	6.9	0.60	0.68	0.37	0.38	0.37	0.29	
3	12.5	12.2	10.2	10.2	9.7	8.5	0.73	0.73	0.52	0.46	0.45	0.35	
4	14.6	14.3	11.9	11.8	11.5	10.2	0.81	0.78	0.49	0.51	0.51	0.33	
5	18.0	17.2	13.9	14.5	13.7	11.6	0.97	0.88	0.71	0.61	0.61	0.48	
6	20.3	19.8	16.2	16.6	16.1	13.8	1.07	1.02	0.65	0.70	0.69	0.44	
7	10.6	10.3	8.7	8.7	8.3	7.4	0.67	0.64	0.41	0.44	0.42	0.28	
8	14.0	14.1	11.7	11.5	11.3	10.0	0.84	0.82	0.51	0.55	0.53	0.34	
9	24.2	23.5	19.1	19.7	19.1	16.3	1.21	1.19	0.92	0.82	0.79	0.63	
10	22.5	22.2	18.2	18.4	18.0	15.8	1.13	1.13	0.69	0.71	0.74	0.47	
11	21.5	21.1	17.8	17.7	17.5	15.6	1.09	1.09	0.87	0.70	0.72	0.59	
12	24.6	24.6	20.4	20.2	20.2	17.7	1.20	1.22	0.95	0.77	0.80	0.65	
13	19.1	19.1	16.0	15.6	15.4	13.7	1.01	1.02	0.78	0.65	0.66	0.53	
14	13.4	13.2	11.3	10.9	10.5	9.5	0.81	0.78	0.58	0.52	0.50	0.39	
15	6.6	6.0	5.6	5.5	5.1	4.7	0.46	0.43	0.32	0.29	0.28	0.21	
16	19.6	19.9	16.5	16.1	15.8	14.2	1.02	1.02	0.82	0.64	0.66	0.54	
17	22.5	22.5	18.8	18.2	17.9	15.8	1.14	1.14	0.89	0.72	0.74	0.60	
18	23.6	23.9	20.2	19.1	19.2	17.1	1.13	1.14	0.90	0.71	0.74	0.61	
19	23.7	23.9	20.1	19.2	19.1	16.8	1.16	1.18	0.91	0.76	0.76	0.62	
20	25.6	25.8	21.7	21.0	21.1	18.6	1.21	1.17	0.91	0.77	0.77	0.67	
21	23.7	24.3	20.4	19.4	19.6	17.3	1.17	1.17	0.94	0.75	0.78	0.64	
22	22.4	23.0	19.7	18.2	18.5	16.9	1.06	1.06	0.85	0.67	0.71	0.57	
23	22.7	23.4	20.0	18.5	19.0	17.4	1.05	1.01	0.84	0.67	0.71	0.57	
24	21.3	21.7	18.6	17.1	17.4	15.8	1.00	1.01	0.78	0.64	0.64	0.53	
25	20.8	21.8	18.6	17.0	17.6	16.1	1.05	1.07	0.85	0.66	0.70	0.58	
26	20.7	21.5	18.6	16.9	17.3	15.9	1.00	1.02	0.80	0.63	0.66	0.54	
27	18.3	19.3	16.5	15.0	15.3	14.1	0.96	0.97	0.77	0.61	0.63	0.52	
28	16.0	16.7	14.1	13.3	13.3	12.3	0.85	0.85	0.66	0.54	0.55	0.45	
29	23.1	24.3	20.7	19.2	19.8	18.2	1.14	1.14	0.97	0.72	0.72	0.66	
30	18.1	18.9	16.0	15.0	15.1	13.7	0.94	0.94	0.78	0.59	0.63	0.52	
31	14.3	14.9	13.0	12.0	12.2	11.3	0.78	0.78	0.63	0.49	0.51	0.43	
Monthly Total	588.6	593.4	498.7	481.6	478.7	427.3	30.29	30.11	22.74	19.37	19.65	15.59	
YTD ¹ Total	4475.3	4776.2	4174.2	3650.7	3812.0	3555.7	236.12	264.01	221.37	150.19	164.45	135.09	

Solar Radiation Summary																	
Month	Total Solar Radiation (MJ/m2)						Ultraviolet Solar Radiation (MJ/m2)						EMMAQUA™ (MJ/m ²)				
	Direct			Underglass			Direct			Underglass			Total	UV			
August	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	Total	UV
Day	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	Total	UV
1	27.9	25.6	23.5	23.6	21.8	20.7	1.45	1.23	1.16	0.98	0.92	0.77	162	6.48			
2	28.0	25.5	23.4	23.6	21.7	20.6	1.44	1.22	1.16	0.97	0.92	0.76	183	7.03			
3	27.9	25.6	23.6	23.5	21.8	20.7	1.41	1.20	1.14	0.95	0.90	0.75	181	6.61			
4	28.3	26.1	24.2	23.9	22.4	21.3	1.39	1.19	1.13	0.94	0.90	0.74	183	6.33			
5	27.4	25.4	23.5	23.2	21.8	20.7	1.38	1.18	1.12	0.93	0.90	0.74	172	6.24			
6	27.3	25.4	23.5	23.1	21.8	20.8	1.39	1.20	1.14	0.94	0.91	0.75	173	6.59			
7	27.4	25.8	23.9	23.2	22.0	21.0	1.40	1.21	1.15	0.94	0.91	0.75	150	5.99			
8	27.6	26.1	24.2	23.4	22.2	21.2	1.41	1.22	1.17	0.95	0.92	0.76	174	6.89			
9	19.7	18.5	17.3	16.3	15.6	15.1	1.08	0.92	0.87	0.72	0.68	0.57	0	0.00			
10	23.0	22.4	21.0	19.7	19.3	18.8	1.23	1.08	1.03	0.83	0.81	0.68	0	0.00			
11	15.4	14.6	13.7	12.9	12.4	12.1	0.91	0.78	0.75	0.61	0.58	0.49	0	0.00			
12	23.2	22.4	20.8	19.7	19.3	18.7	1.24	1.10	1.05	0.85	0.83	0.70	0	0.00			
13	23.9	22.9	21.5	20.0	19.6	19.0	1.26	1.09	1.04	0.85	0.82	0.69	0	0.00			
14	25.7	25.1	23.6	21.9	21.7	21.1	1.33	1.18	1.13	0.91	0.89	0.75	0	0.00			
15	26.1	24.8	23.3	22.0	21.3	20.6	1.35	1.18	1.13	0.92	0.88	0.74	122	4.90			
16	24.3	23.7	22.4	20.6	20.4	19.9	1.21	1.06	1.02	0.82	0.80	0.67	116	3.49			
17	23.5	23.0	21.8	19.7	19.8	19.4	1.17	1.03	0.99	0.79	0.77	0.66	0	0.00			
18	13.1	12.3	11.5	10.9	10.4	10.0	0.70	0.60	0.57	0.47	0.44	0.37	0	0.00			
19	25.5	24.8	23.5	21.3	21.0	20.6	1.28	1.13	1.09	0.87	0.85	0.72	151	5.38			
20	25.0	24.5	23.2	20.9	20.8	20.4	1.26	1.13	1.08	0.86	0.84	0.72	146	5.33			
21	26.3	25.9	24.6	22.0	22.1	21.6	1.31	1.18	1.14	0.89	0.88	0.75	166	5.91			
22	26.8	26.6	25.1	22.5	22.7	22.2	1.35	1.21	1.17	0.91	0.90	0.77	179	6.60			
23	27.2	27.0	25.6	22.8	23.1	22.6	1.33	1.20	1.17	0.90	0.90	0.77	192	6.85			
24	26.3	26.3	25.0	22.1	22.5	22.1	1.31	1.18	1.15	0.89	0.88	0.76	182	6.42			
25	25.9	26.2	24.9	21.8	22.3	22.1	1.31	1.18	1.15	0.89	0.89	0.76	183	6.64			
26	25.8	26.3	25.2	21.9	22.6	22.3	1.30	1.18	1.16	0.88	0.89	0.76	187	6.86			
27	25.7	26.4	25.3	21.9	22.7	22.5	1.30	1.19	1.16	0.88	0.90	0.77	188	7.01			
28	23.5	24.0	23.1	19.8	20.5	20.3	1.21	1.09	1.06	0.81	0.82	0.70	0	0.00			
29	23.8	24.1	23.1	19.8	20.6	20.5	1.22	1.10	1.07	0.81	0.82	0.70	0	0.00			
30	20.1	20.0	19.1	16.5	16.9	16.7	1.06	0.94	0.90	0.70	0.70	0.59	0	0.00			
31	14.0	13.6	12.9	11.8	11.6	11.5	0.81	0.69	0.66	0.54	0.52	0.44	0	0.00			
Monthly Total	755.3	730.5	687.2	636.3	624.8	607.1	38.81	34.03	32.70	26.20	25.55	21.56	3190	117.54			
YTD ¹ Total	5441.0	5570.4	5364.6	4593.4	4764.2	4728.8	265.57	246.56	240.81	182.38	181.72	163.65	24396.13	789.90			

¹ Year To Date

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

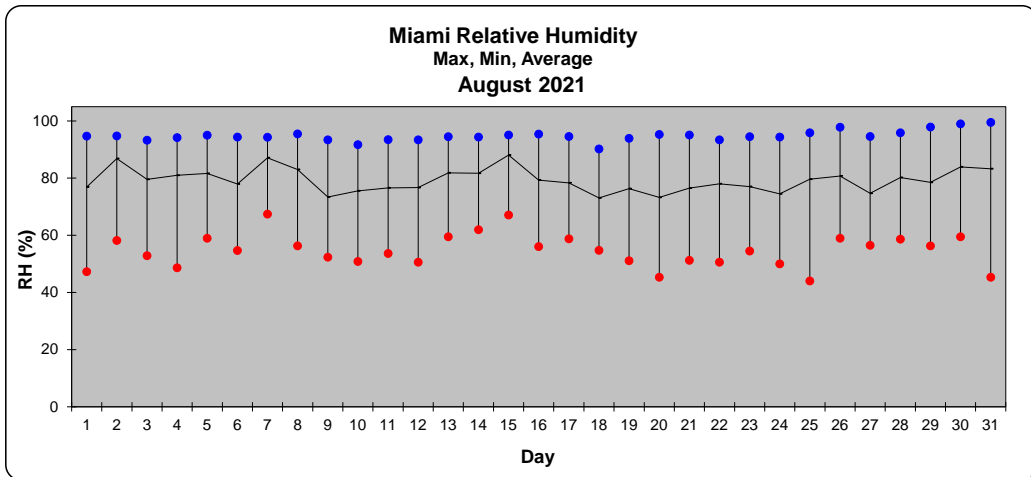
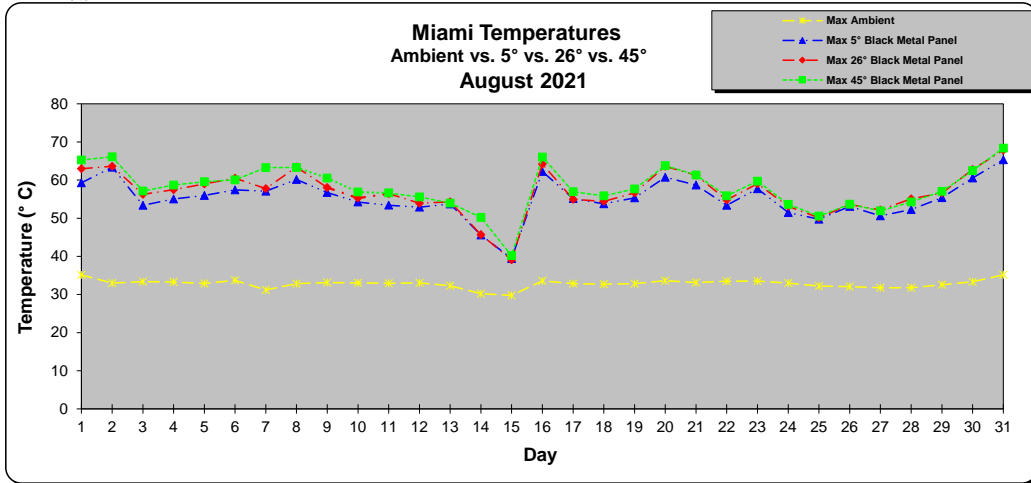




Latitude 25° 34' North, Longitude 80° 28' West, Elevation 2 (m)

Month	Temperature Summary												Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (° C)									Relative Humidity			Wind Speed		Wind Direction	Rainfall
August	(° C)			5 °			26 °			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.	Avg	Total
1	35	24	29	59	23	32	63	23	33	65	24	34	95	47	77	4.4	0.0	134°	0.0
2	33	24	27	63	23	29	64	23	29	66	20	29	95	58	87	5.1	0.0	129°	9.7
3	33	22	28	53	20	29	56	21	30	57	17	31	93	53	80	4.2	0.0	153°	8.1
4	33	22	26	55	21	29	58	21	29	59	14	29	94	49	81	4.1	0.0	125°	0.3
5	33	23	27	56	22	30	59	22	31	60	23	32	95	59	82	4.7	0.0	148°	16.0
6	34	24	28	57	23	32	61	23	33	60	20	33	94	55	78	5.0	0.0	135°	18.0
7	31	24	27	57	23	28	58	23	28	63	19	28	94	67	87	4.2	0.0	173°	0.0
8	33	23	27	60	22	30	63	22	31	63	19	30	96	56	83	3.9	0.0	140°	0.0
9	33	24	29	57	23	33	58	23	34	61	23	34	93	52	73	5.0	0.0	116°	0.0
10	33	25	29	54	22	32	55	22	33	57	23	34	92	51	76	5.6	0.0	113°	2.0
11	33	25	28	53	23	32	56	23	33	57	16	34	94	54	77	5.3	0.0	87°	7.4
12	33	23	28	53	22	32	54	22	33	56	13	36	93	51	77	6.4	0.0	85°	22.1
13	32	23	28	54	22	31	54	22	31	54	7	35	95	60	82	6.9	0.3	97°	18.3
14	30	24	27	46	23	29	46	23	29	50	3	31	94	62	82	6.2	0.7	103°	23.9
15	30	23	26	39	23	27	39	23	26	40	18	42	95	67	88	5.4	0.0	119°	14.2
16	34	24	28	62	23	32	64	23	33	66	24	41	95	56	79	4.5	0.0	134°	0.0
17	33	25	29	55	23	33	55	23	33	57	24	34	95	59	78	5.6	0.0	97°	0.0
18	33	26	30	54	24	34	54	24	34	56	25	34	90	55	73	5.6	0.0	96°	0.0
19	33	24	28	55	22	33	57	22	33	58	25	35	94	51	76	4.6	0.0	92°	0.0
20	34	23	28	61	22	34	64	22	35	64	23	36	95	45	73	4.0	0.0	124°	0.0
21	33	23	28	59	22	33	61	22	34	61	24	35	95	51	76	4.4	0.0	111°	0.0
22	33	25	29	53	23	33	55	23	34	56	25	35	93	51	78	5.0	0.0	114°	0.0
23	34	25	29	58	24	34	59	24	34	60	26	36	95	55	77	5.1	0.0	108°	0.0
24	33	26	29	52	24	33	53	24	34	54	26	34	94	50	74	6.1	0.0	111°	0.0
25	32	23	27	50	22	31	50	22	31	51	17	32	96	44	80	8.1	0.0	84°	4.6
26	32	22	28	53	21	32	54	21	32	54	12	32	98	59	81	6.0	0.0	114°	4.6
27	32	26	29	51	25	32	52	25	32	52	25	33	95	57	75	5.8	0.7	97°	0.3
28	32	25	28	52	24	31	55	24	32	54	26	32	96	59	80	5.5	0.0	115°	0.3
29	33	24	28	55	23	33	57	23	33	57	16	34	98	56	79	4.5	0.0	118°	0.3
30	33	24	27	61	22	31	63	22	31	62	22	33	99	60	84	4.2	0.0	160°	18.0
31	35	22	26	65	22	30	68	22	30	68	11	30	100	45	83	5.6	0.0	166°	4.6
Monthly Avg.	33	24	28	55	23	32	57	23	32	58	20	34	95	55	79	5.2	0.1	119°	
Monthly Total																			172.5
YTD [†] Avg.	30	20	24	53	18	28	54	18	28	55	18	30	95	52	78	14.0	0.5	102°	
YTD [†] Total																			958.3

[†] Year To Date
Note:

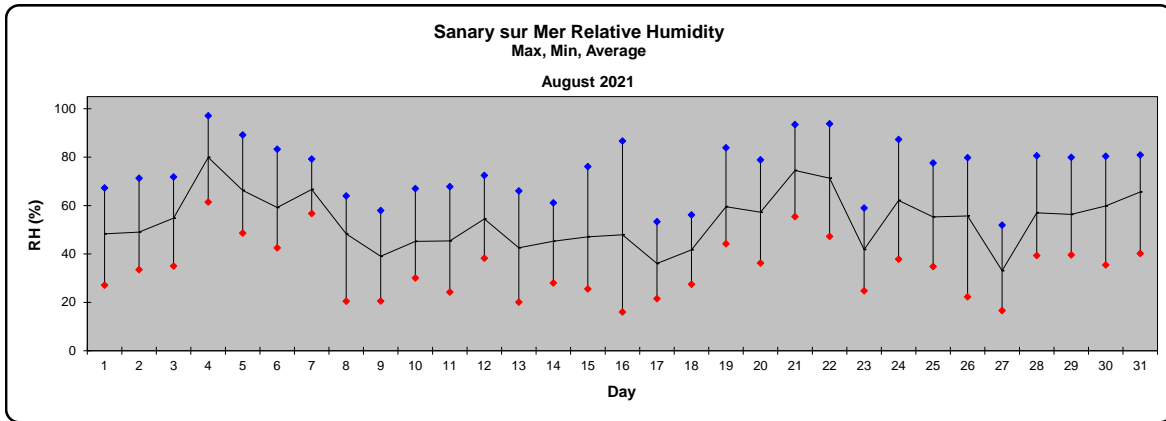
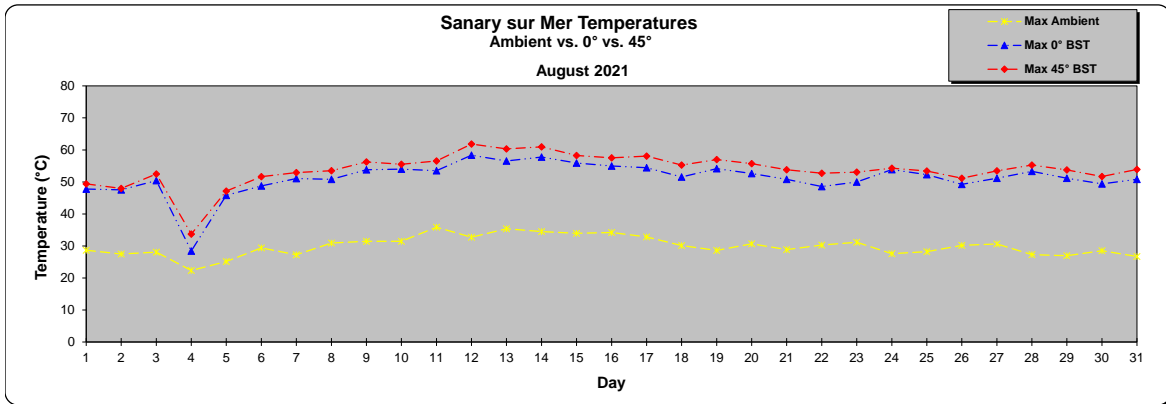


Latitude 43° 08' North, Longitude 05° 49' East, Elevation 110 (m)

Month	Temperature Summary																		Climate Summary										
	Ambient Temperature			Black Standard Temperature BST (°C)						Black Panel Temperature BPT (°C)						Black Metal Panel Temperature (ASTM G179) (°C)						Relative Humidity			Wind Speed		Wind Direction	Rainfall	
	°C			0°			45°			0°			45°			0°			45°			%			(m/s)		360°/0°=N	(mm)	
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	29	17	23	48	16	28	49	16	28	42	16	26	44	15	26	48	16	28	50	16	28	67	27	48	11.1	1.7	267°	0.0	
2	27	16	22	48	13	28	48	13	27	40	13	25	41	12	25	47	13	27	49	14	27	71	34	49	6.9	1.4	275°	0.0	
3	28	18	23	50	15	29	52	15	29	44	15	27	46	15	27	51	15	29	53	16	29	72	35	55	4.7	1.0	243°	0.0	
4	22	19	21	28	16	21	34	16	21	31	16	21	33	16	21	39	16	22	38	17	22	97	61	80	3.9	0.4	319°	6.1	
5	25	17	21	46	14	26	47	14	26	40	14	24	40	14	24	47	14	26	49	15	26	89	49	66	8.0	1.5	269°	0.0	
6	29	18	24	49	16	29	52	16	29	39	16	22	45	16	27	51	16	29	53	16	29	83	43	59	5.5	1.1	265°	0.0	
7	27	19	23	51	17	28	53	17	28	42	17	23	47	16	27	52	17	28	54	17	28	79	57	67	7.2	1.4	87°	0.0	
8	31	20	23	51	16	28	53	16	27	47	16	26	49	16	26	55	16	28	57	17	28	64	21	48	6.2	1.1	266°	0.0	
9	31	19	25	54	16	31	56	16	31	49	15	29	50	15	29	55	15	30	58	16	31	58	21	39	4.6	0.8	249°	0.0	
10	31	19	25	54	17	31	56	16	30	49	16	29	50	16	29	56	17	31	56	17	31	67	30	45	4.6	0.6	230°	0.0	
11	36	20	27	54	18	33	57	18	33	50	18	31	51	17	31	55	18	33	58	18	33	68	24	45	4.2	0.8	242°	0.0	
12	33	22	26	58	20	31	62	20	31	51	19	31	57	19	29	60	19	33	63	20	31	73	38	54	4.6	0.7	93°	0.0	
13	35	22	28	57	20	34	60	20	35	52	20	33	54	20	32	58	20	34	61	21	35	66	20	43	3.6	0.7	232°	0.0	
14	35	22	28	58	20	34	61	20	34	50	19	32	55	19	32	59	19	32	61	20	35	61	28	45	4.4	0.7	149°	0.0	
15	34	22	27	56	19	32	58	19	33	51	19	29	55	18	30	58	19	32	60	19	33	76	26	47	4.8	0.9	241°	0.0	
16	34	22	27	55	20	32	58	20	32	52	20	30	53	20	30	58	20	32	60	20	32	87	16	48	18.6	1.7	269°	0.0	
17	33	20	26	54	17	30	58	17	31	52	17	29	55	16	29	58	17	30	61	17	31	53	22	36	9.3	1.4	275°	0.0	
18	30	17	24	52	15	30	55	15	30	46	15	28	49	14	28	53	15	30	56	15	30	56	28	42	5.2	0.9	235°	0.0	
19	29	16	23	54	14	29	57	14	29	48	13	27	51	13	27	54	14	29	58	14	29	84	44	60	5.9	0.8	132°	0.0	
20	31	18	24	53	15	30	56	15	30	48	15	28	50	14	28	54	14	28	56	15	31	79	36	57	4.0	0.7	233°	0.0	
21	29	19	24	51	16	29	54	16	29	47	16	26	47	15	27	52	16	29	55	16	30	94	55	75	4.7	0.9	288°	0.0	
22	30	20	25	49	18	29	53	18	30	44	18	28	47	17	28	49	18	29	53	18	30	94	47	71	5.1	1.0	281°	0.0	
23	31	21	26	50	19	30	53	19	30	45	19	28	47	18	28	51	19	30	55	19	31	59	25	42	6.9	1.1	291°	0.0	
24	28	19	23	54	16	28	54	16	28	46	15	26	49	15	27	54	16	28	56	16	28	87	38	62	6.1	0.8	61°	0.0	
25	28	18	23	52	15	28	53	15	28	45	15	27	49	14	27	51	14	29	55	16	29	78	35	55	6.3	0.9	82°	0.0	
26	30	19	24	49	16	29	51	16	29	43	16	27	45	16	27	49	16	28	53	17	29	80	22	56	6.8	1.4	268°	0.0	
27	31	19	25	51	16	29	53	16	30	46	16	27	48	15	28	52	16	29	56	16	30	52	17	33	7.4	1.5	271°	0.0	
28	27	16	21	53	13	27	55	13	27	46	13	25	49	13	25	52	13	26	56	14	27	81	39	57	6.3	0.8	238°	0.0	
29	27	17	22	51	14	27	54	14	28	44	14	25	48	13	25	52	14	27	56	14	28	80	40	56	4.3	0.9	278°	0.0	
30	29	15	21	49	12	26	52	12	26	44	12	26	46	12	24	49	12	25	53	13	26	80	35	60	6.5	1.0	285°	0.0	
31	27	15	21	51	13	26	54	13	27	45	13	24	49	12	25	51	13	26	55	13	27	81	40	66	4.2	0.8	195°	0.0	
Monthly Avg.	30	19	24	51	16	29	54	16	29	46	16	27	48	15	27	53	16	29	55	17	29	75	34	54	6.2	1.0	229°	6.1	
Monthly Total																													
YTD [†] Avg.	22	12	17	47	13	25	49	13	25	45	14	25	45	13	23	50	14	26	51	14	25	82	40	62	6.3	1.2	184°	283.2	
YTD [†] Total																													

[†] Year To Date

Note: *No data available



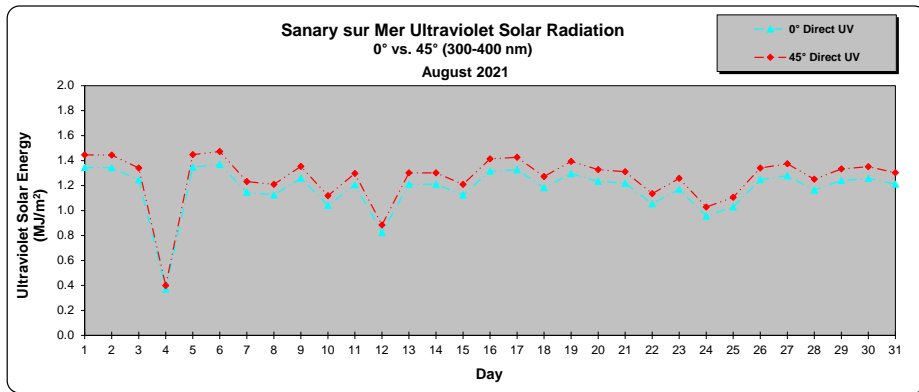
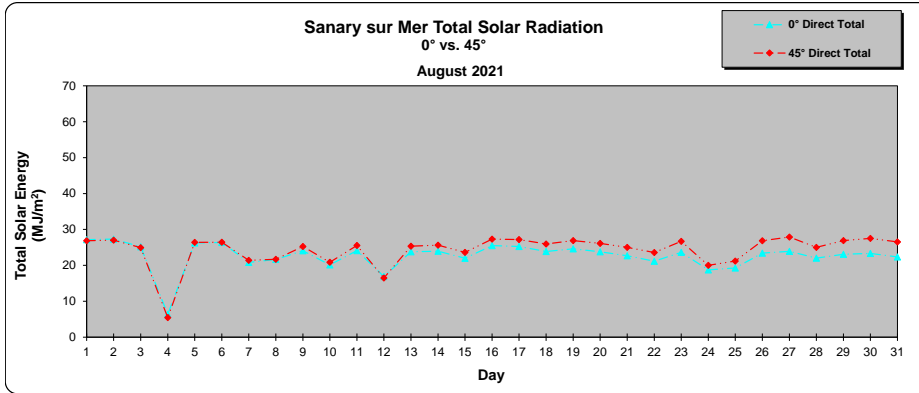
Solar Radiation Summary
August 2021
Sanary sur Mer, France

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

Month	Solar Radiation Summary					
	Total Solar Radiation (MJ/m ²)		Ultraviolet Solar Radiation (MJ/m ²)			
	Direct		295-385 nm		300-400 nm	
August	0°	45°	0°	45°	0°	45°
1	27.1	26.9	1.02	1.10	1.34	1.45
2	27.3	27.0	1.02	1.10	1.34	1.44
3	25.2	24.9	0.95	1.02	1.25	1.34
4	6.4	5.4	0.28	0.30	0.37	0.40
5	26.2	26.4	1.02	1.10	1.35	1.45
6	26.4	26.5	1.04	1.12	1.37	1.47
7	20.8	21.4	0.87	0.94	1.15	1.23
8	21.7	21.7	0.86	0.92	1.12	1.21
9	24.1	25.3	0.96	1.03	1.26	1.35
10	20.1	20.9	0.79	0.85	1.04	1.12
11	24.1	25.5	0.92	0.99	1.21	1.30
12	16.9	16.5	0.63	0.67	0.82	0.88
13	23.8	25.3	0.92	0.99	1.21	1.30
14	24.0	25.6	0.92	0.99	1.21	1.30
15	22.0	23.6	0.86	0.92	1.12	1.21
16	25.5	27.3	1.00	1.08	1.32	1.41
17	25.3	27.2	1.01	1.09	1.33	1.43
18	23.9	25.9	0.90	0.97	1.18	1.27
19	24.6	26.9	0.99	1.06	1.30	1.39
20	23.8	26.1	0.94	1.01	1.23	1.33
21	22.7	25.0	0.93	1.00	1.22	1.31
22	21.2	23.6	0.80	0.86	1.06	1.14
23	23.6	26.7	0.89	0.96	1.17	1.26
24	18.7	20.0	0.73	0.78	0.96	1.03
25	19.3	21.2	0.78	0.84	1.03	1.11
26	23.4	26.9	0.95	1.02	1.25	1.34
27	23.9	27.9	0.97	1.05	1.28	1.38
28	22.0	25.0	0.89	0.95	1.16	1.25
29	23.1	26.9	0.94	1.01	1.24	1.33
30	23.3	27.5	0.96	1.03	1.26	1.35
31	22.3	26.5	0.92	0.99	1.21	1.30
Monthly Total	702.6	753.6	27.66	29.74	36.35	39.08
YTD¹ Total	4475.2	4958.7	212.53	222.59	217.26	222.79

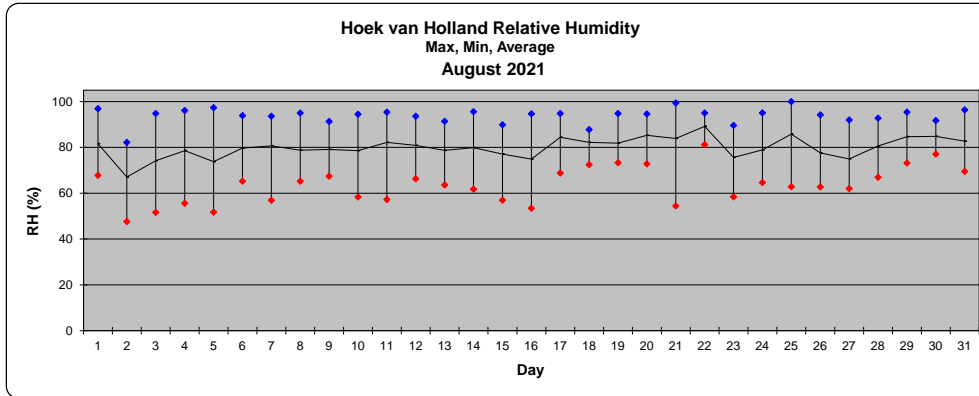
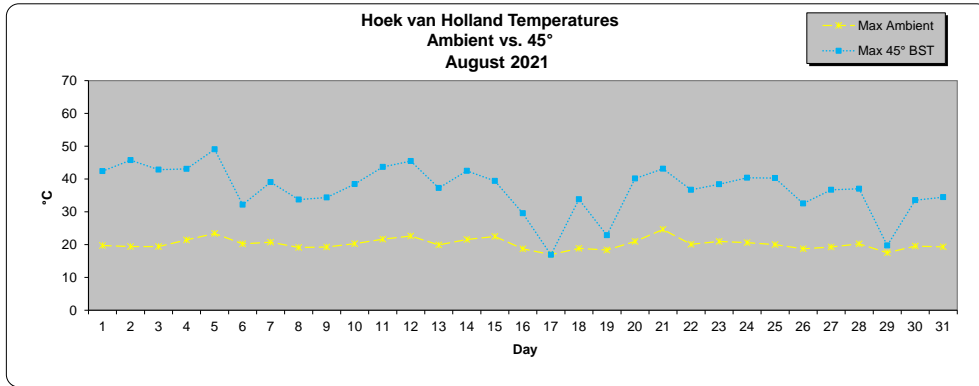
¹ Year To Date Total Solar Radiation - (290-3000 nm) Ultraviolet Solar Radiation - (295-385 nm) or (300-400 nm).

Note:



Month	Temperature Summary						Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
August	°C			45 °			%			(m/s)		360°/0° = N	(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	20	15	17	42	11	19	97	68	82	9.1	3.6	263°	0.3
2	19	12	16	46	6	19	82	48	67	7.1	2.6	307°	0.0
3	19	10	15	43	5	16	95	52	74	7.9	2.1	12°	0.0
4	21	12	17	43	6	18	96	56	79	4.8	1.1	41°	1.0
5	23	12	19	49	7	22	97	52	74	6.0	1.3	98°	0.3
6	20	17	18	32	13	18	94	65	80	14.6	6.0	173°	2.5
7	21	15	17	39	11	17	94	57	81	10.1	4.9	157°	3.3
8	19	15	17	34	12	17	95	65	79	14.0	6.7	200°	3.0
9	19	15	17	34	11	17	91	67	79	11.5	5.9	181°	1.0
10	20	16	18	38	11	19	95	58	79	9.6	3.8	196°	6.9
11	22	15	18	44	9	21	95	57	82	6.6	2.7	190°	0.0
12	23	15	19	45	10	21	94	66	81	6.5	2.3	197°	0.0
13	20	18	19	37	13	19	91	64	79	11.5	3.7	208°	0.0
14	22	16	19	43	13	22	96	62	80	6.8	3.0	199°	0.0
15	22	17	19	39	13	22	90	57	77	11.3	4.1	197°	0.0
16	19	15	17	30	11	16	95	53	75	13.5	6.7	268°	4.3
17	17	15	16	17	11	13	95	69	84	10.9	5.1	255°	8.4
18	19	17	18	34	13	16	88	73	82	9.4	4.0	255°	0.0
19	18	16	17	23	11	15	95	73	82	8.1	3.4	224°	1.3
20	21	15	18	40	10	19	95	73	85	7.4	2.6	212°	0.0
21	25	14	19	43	9	20	99	55	84	4.6	1.3	96°	7.6
22	20	17	18	37	14	17	95	81	89	9.5	3.5	258°	7.9
23	21	16	19	38	10	20	90	58	76	10.7	5.2	354°	0.0
24	21	14	17	40	9	19	95	65	79	9.5	3.8	7°	0.0
25	20	13	16	40	7	19	100	63	86	8.8	3.2	346°	0.0
26	19	15	16	33	9	15	94	63	78	11.2	4.6	328°	4.1
27	19	13	17	37	6	18	92	62	75	11.0	4.1	341°	1.8
28	20	15	17	37	11	18	93	67	81	11.7	4.8	355°	1.8
29	18	15	16	20	11	14	95	73	85	10.2	4.5	344°	1.0
30	20	16	17	34	11	16	92	77	85	11.4	4.4	349°	0.0
31	19	13	16	34	8	16	96	70	83	10.1	3.6	358°	0.0
Monthly Avg.	20	15	18	37	10	18	94	63	80	9.5	3.8	225°	
Monthly Total													56.4
YTD [†] Avg.	14	8	11	29	2	11	94	63	80	9.6	3.8	204°	
YTD [†] Total													530.6

[†] Year To Date For Pollution (SO2, Nox, O3) visit www.lml.rivm.nl
Note: = 5 year average



North Sea Corrosion Test Centre
Solar Radiation Summary
August 2021

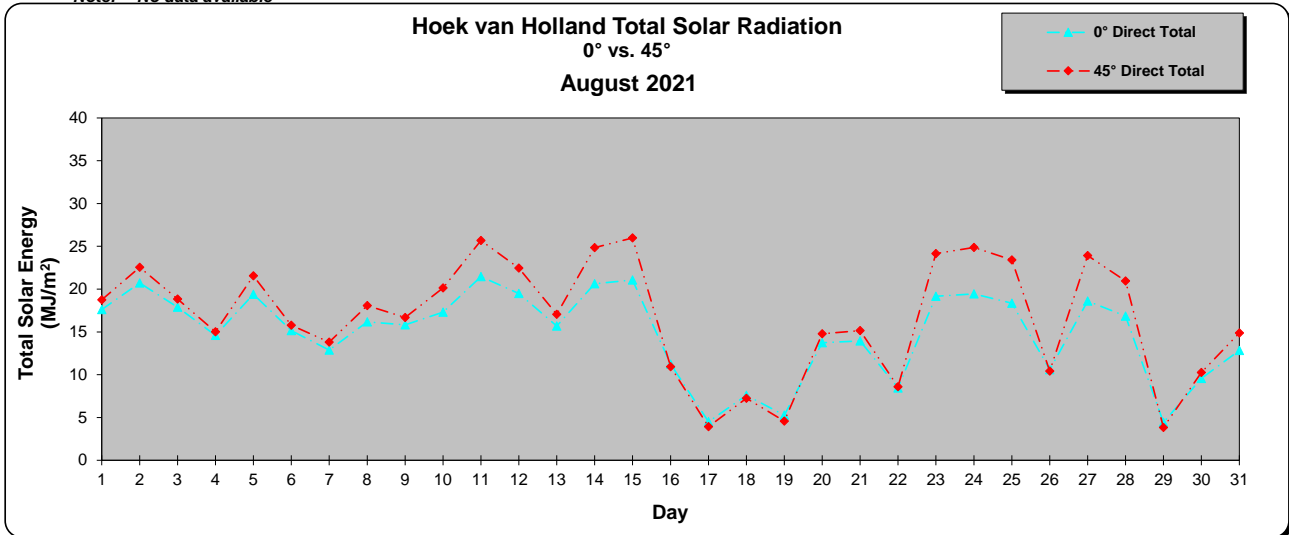
Hoek van Holland, The Netherlands

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

AWSG Solar Radiation Summary		
Month	Total Solar Radiation (MJ/m ²)	
August	Direct	
Day	0°	45°
1	17.6	18.8
2	20.7	22.5
3	17.9	18.9
4	14.6	15.0
5	19.4	21.6
6	15.2	15.8
7	12.9	13.8
8	16.2	18.1
9	15.8	16.7
10	17.3	20.1
11	21.5	25.7
12	19.5	22.5
13	15.7	17.1
14	20.6	24.9
15	21.1	26.0
16	11.2	10.9
17	4.5	3.9
18	7.6	7.3
19	5.3	4.6
20	13.7	14.8
21	13.9	15.2
22	8.4	8.6
23	19.2	24.2
24	19.5	24.9
25	18.4	23.4
26	10.6	10.4
27	18.6	23.9
28	16.9	21.0
29	4.4	3.8
30	9.6	10.3
31	12.8	14.9
Monthly Total	460.4	519.1
YTD[†] Total	3153.2	3676.5

[†] Year To Date Total Solar Radiation - (290-3000nm)

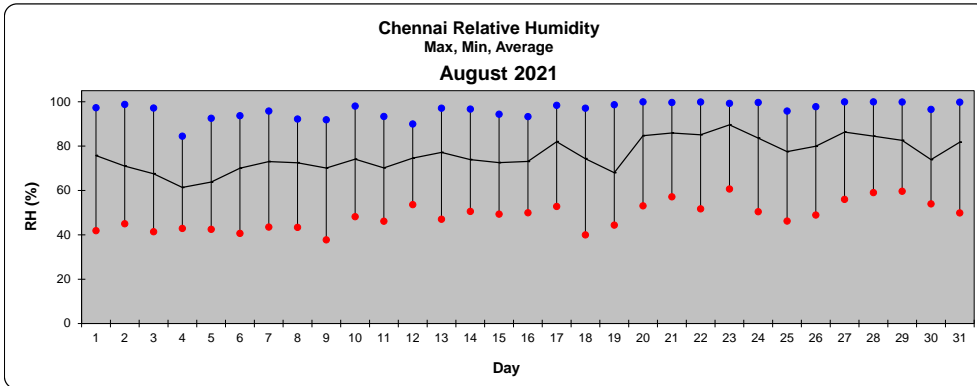
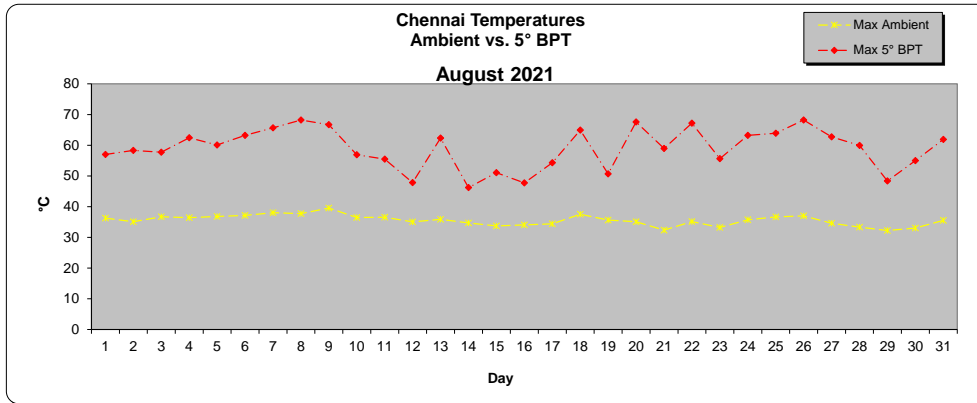
Note: * No data available



Month	Temperature Summary						Climate Summary						
	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
August	° C			5 °			%			(m/s)		360°/70° = N	(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	36	26	30	57	24	33	97	42	76	5.5	0.9	269°	1.3
2	35	26	30	58	23	33	99	45	71	5.3	0.9	258°	0.0
3	37	26	31	58	23	35	97	41	68	5.8	1.1	258°	0.0
4	36	27	32	62	24	35	85	43	61	6.2	1.2	243°	0.0
5	37	27	31	60	24	35	93	43	64	7.1	1.1	248°	0.3
6	37	26	31	63	24	35	94	41	70	5.1	1.0	246°	0.3
7	38	26	31	66	24	36	96	43	73	4.6	0.9	250°	0.0
8	38	27	32	68	26	37	92	43	72	3.9	0.9	156°	0.0
9	40	27	32	67	25	37	92	38	70	5.1	0.9	72°	0.0
10	36	26	31	57	24	35	98	48	74	5.0	1.3	306°	10.2
11	37	26	31	55	24	35	93	46	70	5.7	1.1	324°	0.0
12	35	27	30	48	24	32	90	54	75	5.2	1.1	267°	0.0
13	36	26	30	62	24	33	97	47	77	5.6	1.0	274°	8.9
14	35	25	30	46	23	32	97	51	74	5.8	1.0	290°	0.3
15	34	25	29	51	23	31	94	49	73	6.6	1.1	276°	0.0
16	34	27	30	48	25	32	93	50	73	4.3	0.8	273°	0.0
17	34	26	29	54	24	32	98	53	82	3.5	0.6	53°	1.3
18	38	25	30	65	23	35	97	40	74	3.7	0.9	243°	0.0
19	36	24	31	51	23	34	99	44	68	4.8	0.9	252°	32.8
20	35	24	29	68	23	33	100	53	85	3.4	0.5	61°	6.1
21	32	24	28	59	23	32	100	57	86	4.7	0.7	241°	34.8
22	35	25	29	67	22	34	100	52	85	5.4	0.6	95°	4.3
23	33	25	28	56	23	29	99	61	90	5.2	0.5	31°	0.5
24	36	26	29	63	24	33	100	50	84	4.9	0.6	43°	0.0
25	37	26	30	64	23	34	96	46	78	3.8	0.8	260°	0.0
26	37	25	29	68	23	34	98	49	80	4.8	0.8	325°	0.3
27	35	23	28	63	22	33	100	56	86	8.3	1.0	273°	66.6
28	33	24	28	60	23	32	100	59	85	3.6	0.8	261°	6.6
29	32	25	28	48	24	30	100	60	83	4.6	0.8	248°	5.8
30	33	25	29	55	22	32	97	54	74	4.3	1.0	248°	35.3
31	36	25	29	62	23	33	100	50	82	4.2	0.8	285°	0.5
Monthly Avg.	36	26	30	59	24	33	96	49	76	5.0	0.9	223°	
Monthly Total													215.9
YTD [†] Avg.	35	25	29	59	22	33	96	46	76	4.7	0.9	163°	
YTD [†] Total													677.9

[†] Year To Date

Note: * Data Unavailable





ATLAS

WEATHERING SERVICES GROUP



Solar Radiation Summary August 2021 Chennai, India

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

AWSG Solar Radiation Summary			
Month	Total Solar Radiation (MJ/m ²)	Ultraviolet Solar Radiation (MJ/m ²)	
August	Direct	295-385 nm	300-400 nm
Day	5°	5°	
1	20.2	0.87	0.98
2	18.4	0.81	0.90
3	24.4	0.99	1.11
4	24.0	1.03	1.15
5	22.2	0.94	1.05
6	22.6	0.94	1.05
7	23.5	0.99	1.11
8	23.5	1.00	1.12
9	24.9	1.05	1.17
10	25.71	1.09	1.22
11	24.5	1.05	1.17
12	14.3	0.66	0.74
13	20.2	0.89	0.99
14	16.7	0.74	0.83
15	15.5	0.70	0.78
16	13.3	0.62	0.70
17	12.1	0.57	0.64
18	21.9	0.92	1.03
19	16.2	0.73	0.81
20	15.9	0.72	0.80
21	19.1	0.85	0.95
22	22.4	0.94	1.05
23	10.9	0.51	0.57
24	18.0	0.80	0.90
25	21.5	0.93	1.03
26	21.1	0.90	1.00
27	20.2	0.90	1.01
28	18.6	0.85	0.95
29	13.5	0.67	0.75
30	16.2	0.76	0.84
31	22.3	0.96	1.07
Monthly Total	603.9	26.38	29.45
YTD¹ Total	4979.6	223.52	252.35

¹ Year To Date Total Solar Radiation - (290-3000nm)

Note:

