



# ATLAS

**AMETEK**  
MEASUREMENT, COMMUNICATIONS  
& TESTING

**Weather Summary**  
**August 2020**  
**Phoenix, Arizona**

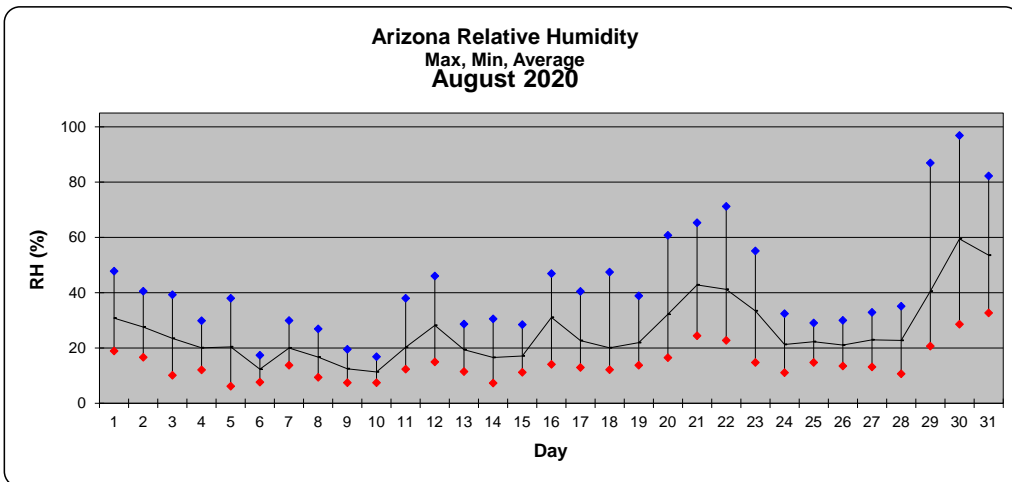
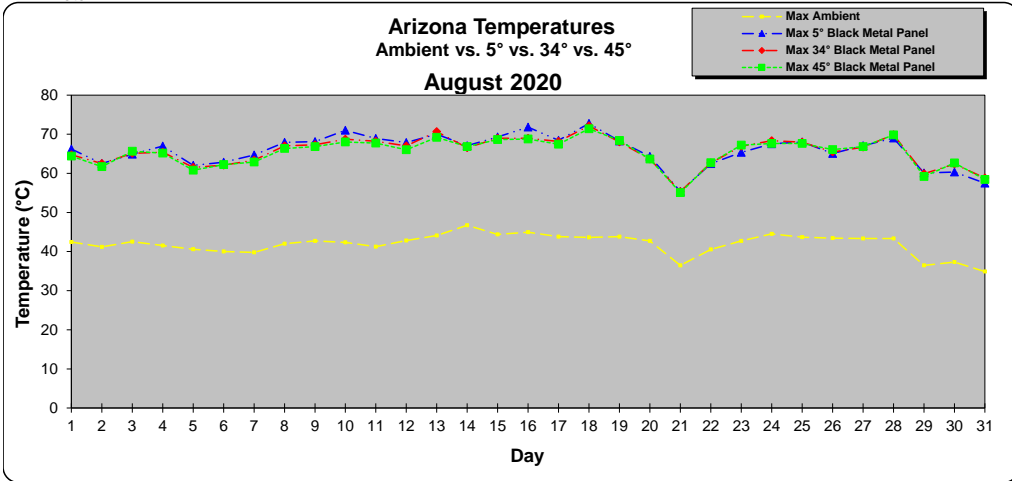
**WEATHERING SERVICES GROUP**

Latitude 33° 54' North, Longitude 112° 08' West, Elevation 610 (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 °			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.	Avg	Total
1	42	29	36	66	27	42	65	27	41	64	27	41	48	19	31	9.3	1.7	71°	0.0
2	41	31	36	63	28	40	63	28	40	62	28	40	41	17	28	8.3	1.6	237°	0.0
3	43	29	36	65	26	41	65	26	41	66	26	41	39	10	23	7.9	1.6	195°	0.0
4	42	32	37	67	28	46	65	29	45	65	29	45	30	12	20	7.7	1.7	200°	0.0
5	41	27	34	62	23	38	62	24	38	61	24	38	38	6	20	10.3	1.8	193°	0.0
6	40	24	33	63	21	37	62	22	37	62	22	37	17	8	12	10.0	1.9	95°	0.0
7	40	24	33	65	20	38	63	21	38	63	21	38	30	14	20	7.3	1.7	169°	0.0
8	42	28	35	68	25	40	67	26	40	66	26	40	27	9	17	8.0	2.0	332°	0.0
9	43	27	35	68	23	41	67	24	40	67	24	40	20	7	13	8.6	2.0	326°	0.0
10	42	27	35	71	24	40	69	25	40	68	25	40	17	7	11	9.0	2.0	289°	0.0
11	41	27	34	69	25	39	68	25	39	68	25	39	38	12	20	10.2	1.6	216°	0.0
12	43	28	36	68	26	41	67	26	41	66	26	41	46	15	28	8.5	1.6	287°	0.0
13	44	31	37	70	29	42	71	29	42	69	29	42	29	11	19	10.2	2.3	341°	0.0
14	47	30	38	67	27	43	67	27	43	67	27	43	31	7	17	11.0	2.1	310°	0.0
15	44	30	38	69	26	43	69	26	43	69	27	43	28	11	17	6.9	1.6	223°	0.0
16	45	29	36	72	28	41	69	28	41	69	29	41	47	14	31	18.1	2.1	353°	0.0
17	44	29	36	68	27	42	68	27	42	67	27	42	41	13	23	11.2	2.0	51°	0.0
18	44	29	37	73	22	42	72	22	42	71	22	42	47	12	20	14.8	2.1	51°	0.0
19	44	29	37	68	26	42	68	26	42	68	26	42	39	14	22	7.0	1.7	93°	0.0
20	43	27	35	64	20	39	64	20	39	64	20	39	61	17	32	17.7	2.1	159°	0.0
21	36	26	31	55	24	34	55	25	34	55	25	34	65	24	43	8.4	2.0	286°	1.8
22	41	27	33	62	25	38	63	25	39	63	25	39	71	23	41	9.8	1.7	210°	0.3
23	43	27	35	65	25	41	67	26	41	67	26	41	55	15	33	5.5	1.4	98°	0.0
24	45	30	37	68	29	42	68	29	42	68	29	42	32	11	21	8.6	2.2	65°	0.0
25	44	30	36	68	28	41	68	29	41	68	29	41	29	15	22	13.6	2.7	34°	0.0
26	43	30	37	65	29	41	65	29	41	66	29	42	30	13	21	9.2	2.3	47°	0.0
27	43	30	36	67	27	41	67	27	41	67	27	42	33	13	23	10.3	2.2	38°	0.0
28	43	29	35	69	26	39	70	27	39	70	27	39	35	11	23	9.3	2.4	15°	0.0
29	36	23	31	60	22	34	60	22	34	59	22	34	87	21	41	10.8	1.5	193°	1.0
30	37	20	28	60	20	34	62	20	34	63	20	34	97	29	59	17.5	2.5	25°	49.0
31	35	22	28	57	19	34	59	20	34	58	20	34	82	33	54	8.1	1.5	192°	0.0
Monthly Avg.	42	28	35	66	25	40	66	25	40	65	26	40	43	14	26	10.1	1.9	174°	
Monthly Total																			52.1
YTD <sup>†</sup> Avg.	30	17	24	54	14	28	56	15	28	56	15	28	47	17	31	9.0	2.0	123°	202.2
YTD <sup>†</sup> Total																			

<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)

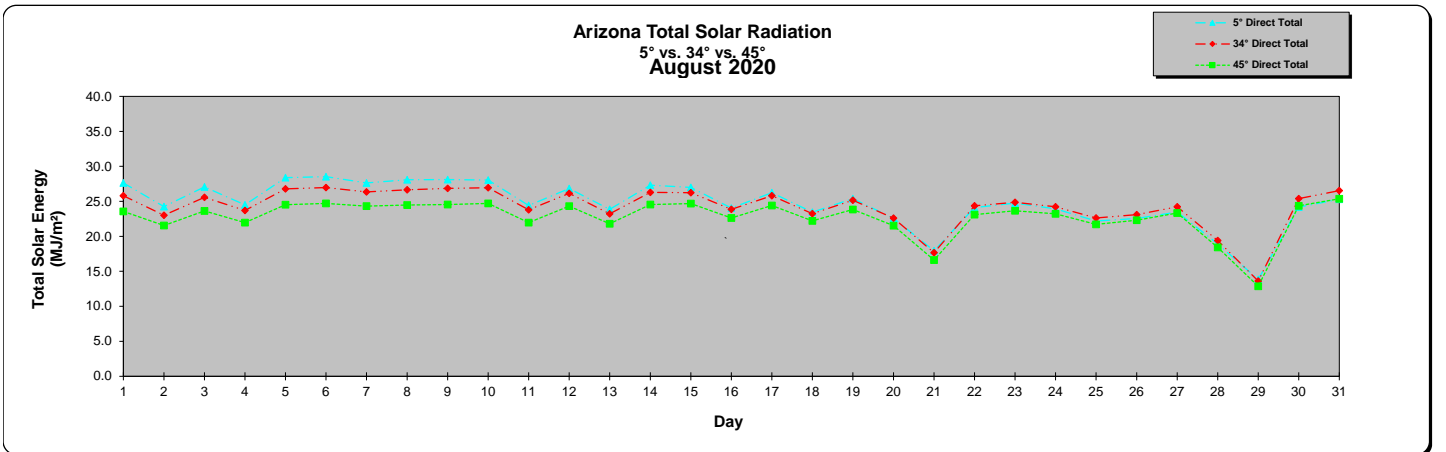
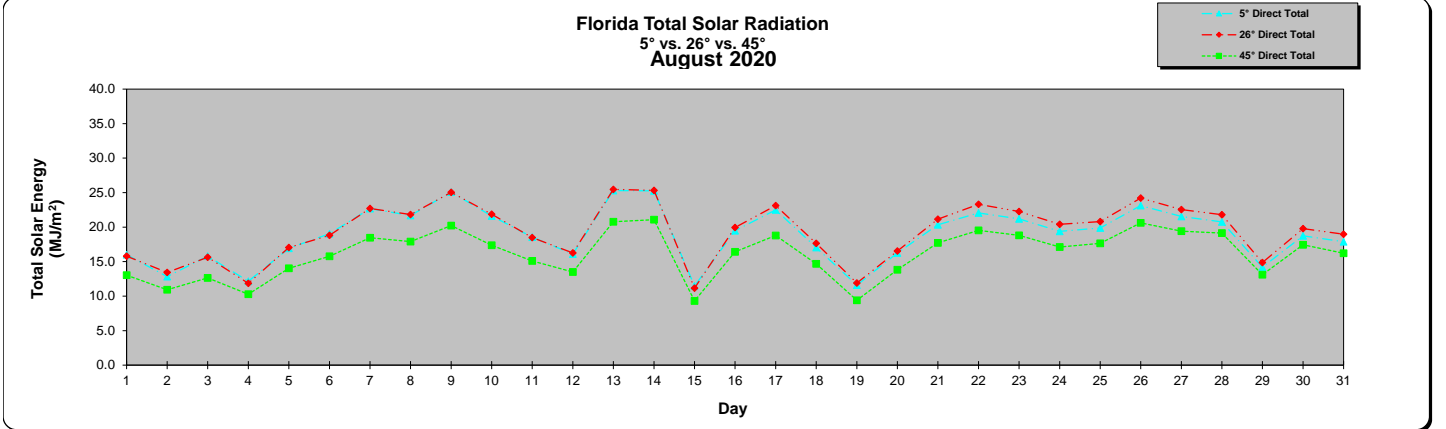
**Phoenix, Arizona**

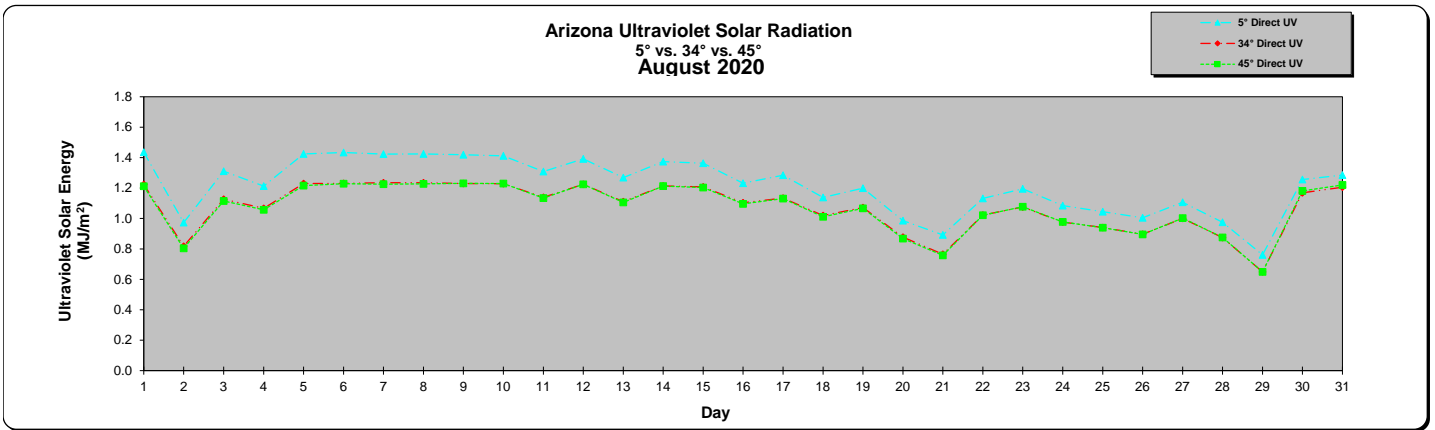
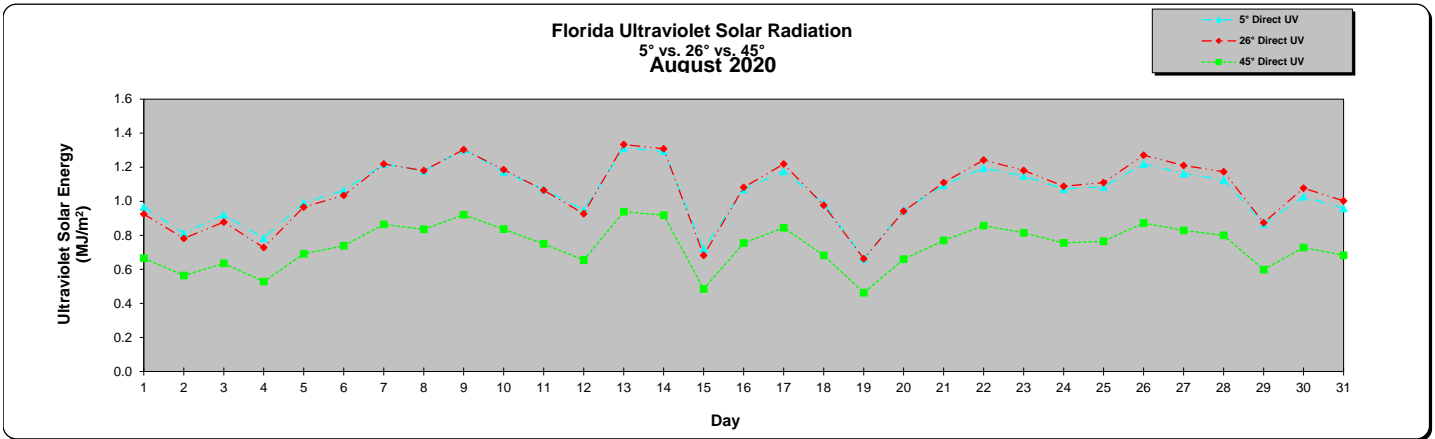
Month	Solar Radiation Summary											
	Total Solar Radiation (MJ/m <sup>2</sup> )						Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )					
	Direct			Underglass			Direct			Underglass		
	5°	26°	45°	5°	26°	45°	5°	26°	45°	5°	26°	45°
August												
1	16.0	15.8	13.0	13.0	12.6	11.2	0.97	0.92	0.67	0.73	0.65	0.40
2	12.8	13.4	10.9	10.5	10.2	9.5	0.81	0.78	0.56	0.62	0.55	0.36
3	15.8	15.6	12.6	12.8	12.3	11.0	0.92	0.88	0.64	0.70	0.62	0.39
4	12.1	11.8	10.3	9.7	9.2	8.1	0.79	0.73	0.53	0.57	0.50	0.31
5	16.9	17.1	14.0	13.8	13.5	11.8	0.99	0.97	0.69	0.75	0.68	0.42
6	19.0	18.8	15.8	15.4	15.0	13.0	1.06	1.04	0.74	0.79	0.72	0.44
7	22.7	22.7	18.5	18.6	18.5	16.0	1.22	1.22	0.86	0.92	0.86	0.53
8	21.7	21.8	17.9	17.9	17.8	15.3	1.18	1.18	0.84	0.89	0.83	0.51
9	25.1	25.0	20.2	20.5	20.4	17.7	1.30	1.30	0.92	0.98	0.92	0.57
10	21.6	21.9	17.4	17.9	18.0	15.7	1.17	1.19	0.84	0.92	0.85	0.53
11	18.6	18.5	15.1	15.2	15.1	13.1	1.07	1.07	0.75	0.83	0.76	0.47
12	16.1	16.3	13.5	13.0	12.9	11.7	0.95	0.93	0.65	0.72	0.65	0.41
13	25.3	25.5	20.8	20.6	20.7	17.9	1.31	1.33	0.94	1.03	0.96	0.60
14	25.3	25.3	21.1	20.4	20.5	17.6	1.29	1.31	0.92	1.00	0.93	0.58
15	11.5	11.2	9.3	9.0	8.3	7.1	0.72	0.68	0.48	0.55	0.48	0.29
16	19.5	19.9	16.4	15.8	16.0	14.1	1.07	1.08	0.75	0.83	0.77	0.48
17	22.5	23.1	18.8	18.5	18.9	16.6	1.18	1.22	0.84	0.91	0.87	0.54
18	17.0	17.6	14.7	14.0	14.0	12.4	0.99	0.98	0.68	0.76	0.69	0.43
19	11.6	11.9	9.4	9.3	8.8	8.8	0.66	0.66	0.46	0.53	0.47	0.30
20	16.3	16.5	13.8	13.2	13.3	12.4	0.95	0.94	0.66	0.73	0.67	0.43
21	20.3	21.2	17.7	16.8	17.2	15.8	1.09	1.11	0.77	0.84	0.79	0.50
22	22.0	23.3	19.5	18.3	19.0	17.3	1.20	1.24	0.86	0.94	0.88	0.56
23	21.2	22.3	18.8	17.4	18.0	16.4	1.15	1.18	0.82	0.89	0.83	0.53
24	19.4	20.4	17.1	15.9	16.4	14.7	1.07	1.09	0.76	0.84	0.77	0.49
25	19.9	20.8	17.6	16.2	16.7	15.3	1.08	1.11	0.77	0.83	0.78	0.49
26	23.1	24.2	20.6	18.7	19.5	17.7	1.22	1.27	0.87	0.95	0.89	0.57
27	21.6	22.6	19.4	17.4	18.1	16.5	1.16	1.21	0.83	0.90	0.84	0.54
28	20.8	21.8	19.1	16.8	17.6	16.0	1.13	1.17	0.80	0.87	0.82	0.52
29	14.2	14.9	13.1	11.3	11.5	10.5	0.87	0.87	0.60	0.65	0.60	0.38
30	18.7	19.8	17.4	15.1	15.8	14.6	1.03	1.08	0.73	0.78	0.74	0.48
31	17.9	19.0	16.2	14.4	15.0	14.0	0.96	1.00	0.68	0.74	0.70	0.45
Monthly Total	586.4	599.9	500.2	476.9	481.4	429.9	32.55	32.74	22.90	24.98	23.07	14.50
YTD <sup>1</sup> Total	4372.2	4787.6	4451.2	3817.9	3813.1	3264.9	222.57	229.48	201.66	184.69	158.19	112.28

Month	Solar Radiation Summary															EMMAQUA™	
	Total Solar Radiation (MJ/m <sup>2</sup> )						Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )										
	Direct			Underglass			Direct			Underglass							
	5°	34°	45°	5°	34°	45°	5°	34°	45°	5°	34°	45°	Total	UV			
August																	
1	27.6	25.8	23.6	23.9	21.7	20.3	1.44	1.22	1.21	0.98	0.92	0.79	172	5.79			
2	24.3	23.0	21.5	20.7	19.4	18.4	0.97	0.82	0.80	0.67	0.62	0.53	0	0.00			
3	27.1	25.6	23.6	23.3	21.5	20.2	1.31	1.13	1.12	0.89	0.85	0.73	133	4.26			
4	24.5	23.7	22.0	21.4	20.2	19.9	1.21	1.07	1.06	0.83	0.80	0.69	166	5.46			
5	28.4	26.8	24.5	24.6	22.4	21.8	1.42	1.23	1.22	0.97	0.92	0.79	195	6.59			
6	28.5	27.0	24.7	24.7	22.6	22.0	1.43	1.23	1.23	0.98	0.93	0.80	199	6.64			
7	27.6	26.4	24.3	24.0	22.1	21.7	1.42	1.24	1.22	0.98	0.93	0.81	192	6.48			
8	28.1	26.6	24.5	24.1	22.4	21.9	1.42	1.24	1.23	0.97	0.93	0.81	182	6.10			
9	28.1	26.9	24.5	24.2	22.6	22.2	1.42	1.23	1.23	0.97	0.93	0.81	183	6.12			
10	28.1	26.9	24.7	24.2	22.7	22.4	1.41	1.23	1.23	0.96	0.93	0.81	188	6.29			
11	24.4	23.8	22.0	21.2	20.1	19.9	1.31	1.14	1.13	0.89	0.86	0.75	136	4.61			
12	26.8	26.1	24.3	23.3	22.0	21.7	1.39	1.22	1.22	0.98	0.92	0.80	186	6.29			
13	23.9	23.2	21.8	20.7	19.8	19.7	1.27	1.11	1.11	0.86	0.83	0.73	83	3.07			
14	27.3	26.3	24.5	23.4	22.2	22.0	1.37	1.21	1.21	0.93	0.90	0.79	153	5.04			
15	27.0	26.2	24.7	23.2	22.2	22.0	1.36	1.21	1.20	0.93	0.91	0.79	178	5.82			
16	24.1	23.9	22.6	20.9	20.4	20.3	1.23	1.10	1.10	0.84	0.83	0.72	117	4.01			
17	26.2	25.8	24.4	22.2	21.6	21.5	1.28	1.13	1.13	0.86	0.84	0.73	155	4.82			
18	23.4	23.2	22.2	20.2	19.8	20.0	1.14	1.02	1.01	0.78	0.76	0.66	0	0.00			
19	25.4	25.2	23.8	21.6	21.1	21.2	1.20	1.07	1.07	0.82	0.80	0.70	156	3.87			
20	22.6	22.6	21.5	19.3	19.1	19.3	0.99	0.88	0.87	0.68	0.66	0.57	0	0.00			
21	17.9	17.7	16.6	15.1	14.8	14.8	0.89	0.77	0.76	0.60	0.57	0.50	0	0.00			
22	24.1	24.4	23.1	20.6	20.5	20.7	1.13	1.02	1.02	0.77	0.77	0.67	108	2.73			
23	24.8	24.9	23.7	20.9	20.9	21.1	1.20	1.08	1.08	0.82	0.80	0.70	142	3.58			
24	23.9	24.2	23.2	20.2	20.4	20.6	1.09	0.98	0.98	0.74	0.73	0.64	133	2.87			
25	22.2	22.6	21.7	19.3	19.2	19.4	1.05	0.94	0.94	0.71	0.70	0.61	84	1.84			
26	22.6	23.1	22.3	19.6	19.9	19.8	1.01	0.90	0.90	0.69	0.67	0.59	87	1.54			
27	23.5	24.2	23.3	20.1	21.0	20.8	1.11	1.00	1.00	0.76	0.75	0.66	120	2.56			
28	18.9	19.4	18.4	16.1	16.7	16.6	0.98	0.87	0.88	0.66	0.65	0.58	0	0.00			
29	13.8	13.6	12.9	11.6	11.5	11.3	0.76	0.65	0.65	0.51	0.48	0.42	0	0.00			
30	24.2	25.4	24.4	20.8	22.0	21.7	1.26	1.17	1.18	0.86	0.87	0.78	163	5.26			
31	25.3	26.5	25.4	21.6	22.7	22.6	1.29	1.21	1.22	0.89	0.91	0.81	148	4.94			
Monthly Total	764.5	751.0	704.8	656.8	635.5	627.9	37.75	33.30	33.20	25.73	24.96	21.77	3758	116.58			
YTD <sup>1</sup> Total	5647.0	5797.9	5562.4	4789.3	4887.7	4827.8	270.56	249.31	248.29	187.74	186.16	168.36	30757.01	977.51			

<sup>1</sup> Year To Date

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

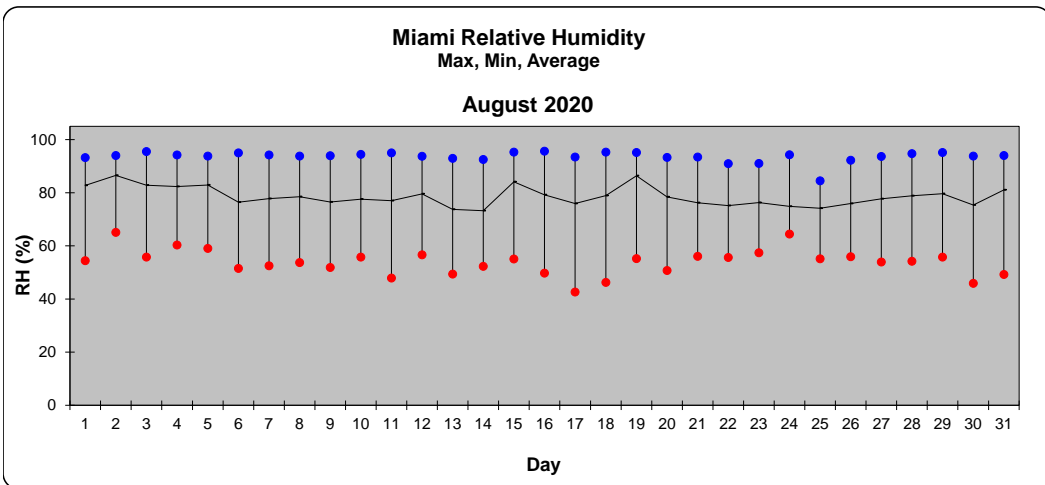
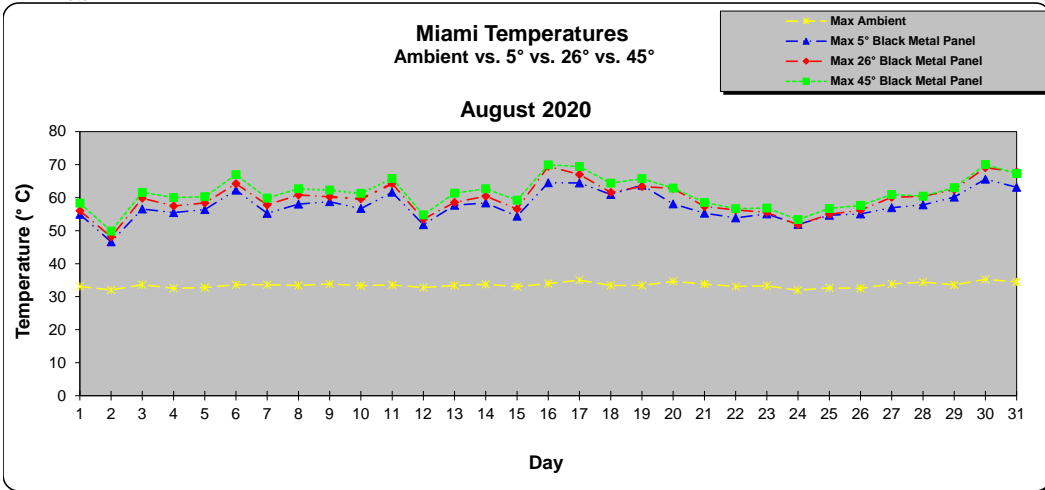




Latitude 25° 34' North, Longitude 80° 28' West, Elevation 2 (m)

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 °			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	33	24	27	55	22	30	56	22	30	58	22	30	93	54	83	38.8	0.3	190°	12.4
2	32	26	27	47	25	29	48	25	29	50	25	29	94	65	87	20.8	0.0	115°	7.1
3	34	25	28	57	24	31	60	24	31	62	24	32	96	56	83	20.1	0.0	174°	0.3
4	33	26	28	56	24	31	57	24	31	60	24	31	94	60	82	25.9	0.0	188°	0.8
5	33	24	28	56	23	31	58	23	31	60	23	32	94	59	83	19.0	0.0	218°	14.0
6	34	24	28	62	22	32	64	22	33	67	22	33	95	52	76	24.4	0.0	190°	0.0
7	34	24	29	55	23	33	58	23	33	60	23	34	94	52	78	20.8	0.0	226°	0.0
8	33	24	29	58	23	33	61	23	33	63	23	34	94	54	79	23.0	0.0	221°	0.0
9	34	25	29	59	24	34	60	24	35	62	24	36	94	52	76	21.9	0.0	219°	0.0
10	33	25	29	57	23	33	60	23	33	61	23	34	94	56	78	23.7	0.0	229°	0.0
11	34	24	28	62	23	32	64	23	32	66	22	33	95	48	77	23.4	0.0	230°	1.8
12	33	25	28	52	24	31	53	24	32	55	23	32	94	57	80	18.7	0.0	236°	1.8
13	33	25	29	58	23	34	59	23	34	61	23	35	93	49	74	22.3	0.0	257°	0.0
14	34	25	29	58	23	34	60	23	35	63	23	35	93	52	73	23.0	0.0	251°	0.0
15	33	24	27	54	23	28	57	23	29	59	22	29	95	55	84	16.2	0.0	211°	11.9
16	34	24	28	65	22	32	69	22	33	70	22	33	96	50	79	24.1	0.0	229°	1.3
17	35	25	29	64	23	33	67	23	34	69	23	34	93	43	76	17.6	0.0	206°	3.3
18	33	24	28	61	23	31	62	23	32	64	22	32	95	46	79	14.7	0.0	211°	30.2
19	33	24	27	64	23	28	63	23	29	66	23	29	95	55	86	24.8	0.0	205°	31.2
20	35	25	29	58	24	32	63	24	33	63	24	33	93	51	78	21.6	0.0	188°	1.0
21	34	24	29	55	23	33	57	23	34	59	23	34	93	56	76	22.6	0.0	252°	0.0
22	33	26	29	54	24	33	56	24	33	57	24	33	91	56	75	29.8	0.0	272°	2.5
23	33	26	30	55	25	33	56	25	34	57	25	34	91	57	76	31.6	0.3	272°	1.0
24	32	25	30	52	25	32	52	25	33	53	25	33	94	64	75	40.6	6.1	295°	14.2
25	33	28	30	55	26	33	55	26	34	57	26	34	85	55	74	26.2	0.3	282°	0.0
26	33	25	29	55	24	33	56	24	34	58	23	34	92	56	76	22.3	0.0	261°	1.3
27	34	25	29	57	23	33	60	23	34	61	23	34	94	54	78	23.4	0.0	257°	0.0
28	34	25	29	58	24	33	60	24	34	60	23	34	95	54	79	20.8	0.0	249°	0.0
29	34	25	29	60	23	32	62	23	32	63	23	32	95	56	80	19.0	0.0	229°	0.0
30	35	24	29	66	23	33	69	23	34	70	23	34	94	46	75	20.1	0.0	158°	17.8
31	34	24	28	63	23	31	68	23	32	67	23	32	94	49	81	23.3	0.0	194°	2.8
Monthly Avg.	33	25	29	58	23	32	60	23	32	61	23	33	94	54	79	23.4	0.2	223°	
Monthly Total																			156.7
YTD <sup>†</sup> Avg.	30	20	25	53	19	28	55	19	29	55	18	29	93	51	76	21.5	0.4	219°	
YTD <sup>†</sup> Total																			1056.9

<sup>†</sup> Year To Date  
Note:

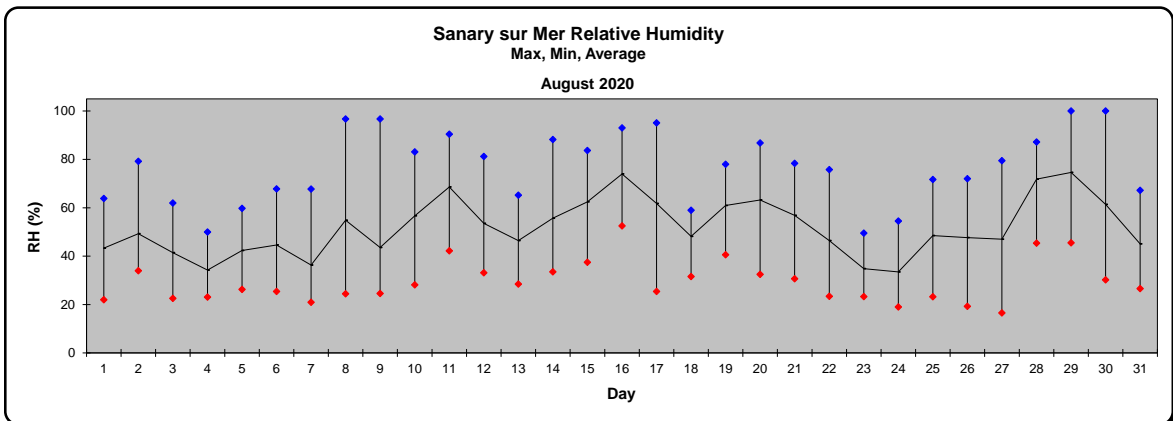
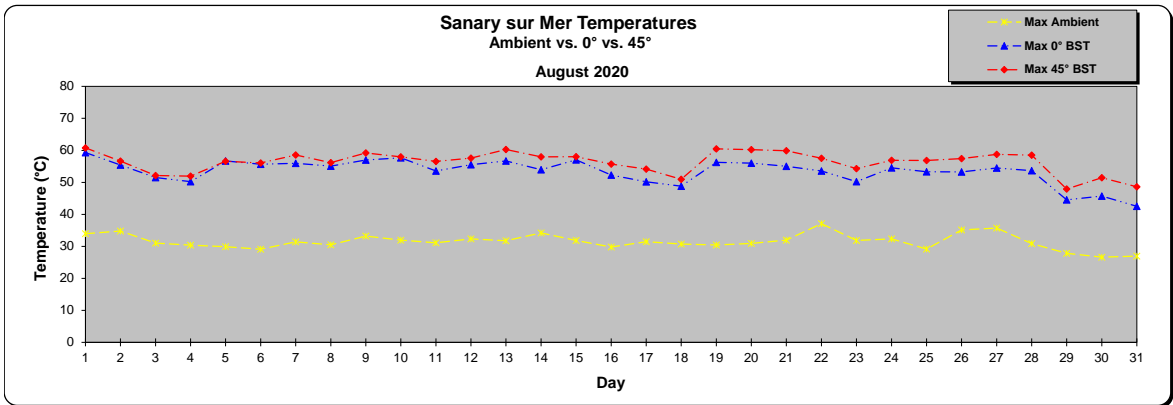


Latitude 43° 08' North, Longitude 05° 49' East, Elevation 110 (m)

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°			%			Max	Avg	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	34	21	29	59	19	36	61	20	36	53	19	33	55	18	33	59	19	35	61	19	35	64	22	43	5.3	0.9	245°	0.0	
2	35	23	28	55	21	35	57	22	35	49	21	32	50	20	32	55	21	34	57	21	34	79	34	49	6.7	1.2	262°	0.0	
3	31	21	25	51	19	30	52	20	30	44	19	28	45	18	28	51	19	29	52	19	29	62	23	41	9.6	1.7	273°	0.0	
4	30	18	24	50	16	29	52	17	30	45	16	27	45	14	27	51	16	29	52	16	29	50	23	34	8.6	1.5	280°	0.0	
5	30	19	24	57	16	31	57	16	31	50	15	29	52	14	28	56	16	30	57	16	30	60	26	42	4.2	0.8	223°	0.0	
6	29	18	23	56	15	31	56	16	31	48	15	28	50	13	27	55	15	30	56	15	30	68	25	45	3.5	0.7	232°	0.0	
7	31	18	26	56	16	32	59	16	33	51	15	30	53	14	30	58	15	32	59	16	32	68	21	36	3.9	0.7	295°	0.0	
8	30	20	25	55	18	32	56	19	32	47	17	30	50	15	29	54	18	31	56	18	31	97	24	55	4.2	0.9	251°	0.0	
9	33	18	27	57	15	33	59	17	34	52	14	31	52	13	31	58	14	33	59	15	33	97	25	44	3.9	0.8	291°	0.0	
10	32	21	26	58	19	32	58	19	32	53	18	30	54	17	30	57	18	31	58	18	32	83	28	57	3.7	0.6	193°	0.0	
11	31	20	25	54	18	31	57	19	32	49	17	29	50	16	29	54	18	31	56	18	32	90	42	69	4.0	0.8	271°	0.0	
12	32	21	26	56	18	31	58	19	31	53	18	30	53	18	30	56	18	31	57	18	31	81	33	54	4.1	0.8	80°	0.0	
13	32	22	27	57	20	33	60	20	34	51	19	31	54	19	32	56	20	32	59	20	33	65	29	46	6.5	1.2	94°	0.0	
14	34	21	27	54	19	32	58	19	33	49	18	30	53	17	30	55	19	32	58	19	32	88	34	56	7.0	1.0	284°	0.0	
15	32	20	26	57	18	33	58	18	33	52	17	30	53	17	31	56	17	32	58	18	32	84	38	62	3.8	0.8	224°	0.0	
16	30	20	25	52	19	31	56	19	32	48	18	29	49	18	30	54	18	31	56	18	31	93	53	74	4.7	0.9	256°	0.0	
17	31	20	25	50	18	30	54	19	31	45	18	28	47	18	28	52	18	29	55	19	30	95	25	62	6.9	1.0	278°	0.0	
18	31	22	26	49	20	30	51	21	31	42	20	28	45	21	29	49	20	29	51	20	30	59	32	48	6.1	1.1	277°	0.0	
19	30	19	25	56	17	31	60	18	32	52	16	29	56	16	30	57	17	31	59	17	31	78	41	61	4.7	0.8	75°	0.0	
20	31	21	25	56	19	32	60	20	34	50	19	31	54	18	31	55	19	32	59	19	32	87	33	63	5.0	1.1	79°	0.0	
21	32	20	26	55	18	32	60	18	33	50	17	30	54	16	31	54	17	31	59	18	32	78	31	57	7.3	1.2	75°	0.0	
22	37	21	28	54	19	33	58	20	35	50	18	32	52	18	32	55	19	33	58	19	34	76	23	46	5.9	1.1	285°	0.0	
23	32	22	26	50	19	31	54	20	32	45	18	29	48	18	30	52	18	30	54	19	31	50	23	35	8.8	1.4	274°	0.0	
24	32	18	25	55	15	30	57	15	31	50	14	28	54	13	28	54	14	30	56	15	30	55	19	33	6.7	0.9	286°	0.0	
25	29	18	24	53	15	29	57	16	31	47	15	27	50	14	28	54	15	29	57	15	30	72	23	48	4.2	0.7	269°	0.0	
26	35	19	27	53	17	31	57	17	33	50	16	30	52	16	30	54	16	31	57	17	32	72	19	48	6.4	1.0	274°	0.0	
27	36	20	27	55	18	32	59	19	33	51	18	30	54	17	31	56	18	31	59	18	32	80	17	47	7.1	1.1	273°	0.0	
28	31	21	25	54	19	30	59	20	32	50	18	29	54	18	30	58	19	30	62	19	31	87	45	72	5.0	0.8	241°	0.0	
29	28	18	22	45	17	23	48	17	23	44	17	22	46	17	22	49	17	23	52	17	23	100	46	75	3.4	0.4	12°	8.4	
30	27	15	20	46	13	24	51	14	27	42	13	23	45	13	24	48	13	25	52	14	26	100	30	61	7.4	1.3	275°	0.0	
31	27	14	21	43	11	25	49	12	27	38	11	23	42	11	24	45	11	25	49	11	26	67	27	45	7.2	1.2	276°	0.0	
Monthly Avg.	31	20	25	53	17	31	56	18	32	48	17	29	51	16	29	54	17	30	56	17	31	77	29	52	5.7	1.0	226°	8.4	
Monthly Total																													
YTD <sup>†</sup> Avg.	22	13	17	41	10	21	46	11	23	38	10	20	41	10	20	42	10	21	46	10	22	84	41	62	6.0	1.1	179°	162.3	
YTD <sup>†</sup> Total																													

<sup>†</sup> Year To Date

Note: \*No data available



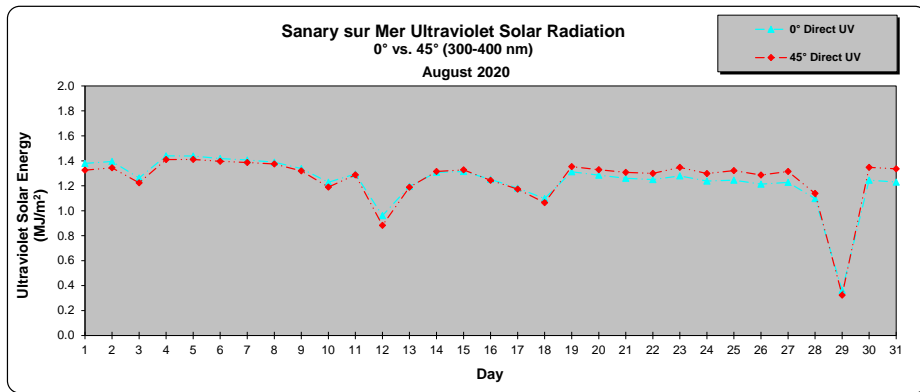
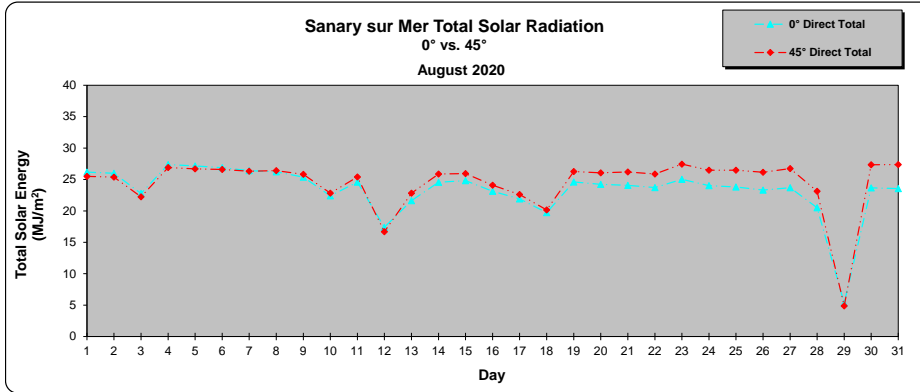
**Solar Radiation Summary**  
**August 2020**  
**Sanary sur Mer, France**

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

Month	Solar Radiation Summary					
	Total Solar Radiation (MJ/m <sup>2</sup> )		Ultraviolet Solar Radiation (MJ/m <sup>2</sup> )			
	Direct		295-385 nm		300-400 nm	
Day	0°	45°	0°	45°	0°	45°
1	26.2	25.5	1.05	1.01	1.38	1.33
2	26.0	25.4	1.06	1.02	1.40	1.34
3	22.8	22.3	0.96	0.93	1.26	1.22
4	27.4	26.9	1.10	1.07	1.44	1.41
5	27.2	26.7	1.10	1.07	1.44	1.41
6	26.9	26.6	1.08	1.06	1.42	1.40
7	26.4	26.3	1.07	1.06	1.41	1.39
8	26.2	26.4	1.06	1.05	1.39	1.38
9	25.4	25.8	1.02	1.00	1.34	1.32
10	22.4	22.8	0.94	0.91	1.23	1.19
11	24.6	25.4	0.99	0.98	1.30	1.29
12	17.4	16.7	0.73	0.67	0.96	0.88
13	21.6	22.8	0.91	0.90	1.20	1.19
14	24.6	25.9	1.00	1.00	1.31	1.32
15	24.8	26.0	1.00	1.01	1.32	1.33
16	23.1	24.1	0.96	0.95	1.25	1.24
17	21.9	22.6	0.90	0.89	1.18	1.17
18	19.7	20.2	0.84	0.81	1.10	1.07
19	24.6	26.3	1.00	1.03	1.31	1.35
20	24.2	26.1	0.98	1.01	1.29	1.33
21	24.1	26.2	0.96	1.00	1.26	1.31
22	23.7	25.9	0.95	0.99	1.25	1.30
23	25.0	27.5	0.98	1.03	1.28	1.35
24	24.0	26.5	0.94	0.99	1.24	1.30
25	23.8	26.5	0.95	1.01	1.25	1.32
26	23.3	26.2	0.93	0.98	1.21	1.29
27	23.7	26.8	0.94	1.00	1.23	1.31
28	20.5	23.1	0.84	0.87	1.10	1.14
29	5.3	4.9	0.28	0.25	0.36	0.32
30	23.7	27.3	0.95	1.03	1.25	1.35
31	23.6	27.4	0.94	1.02	1.23	1.34
<b>Monthly Total</b>	<b>724.0</b>	<b>758.7</b>	<b>29.39</b>	<b>29.58</b>	<b>38.54</b>	<b>38.87</b>
<b>YTD<sup>1</sup> Total</b>	<b>4572.6</b>	<b>4980.6</b>	<b>42.66</b>	<b>42.05</b>	<b>242.10</b>	<b>242.56</b>

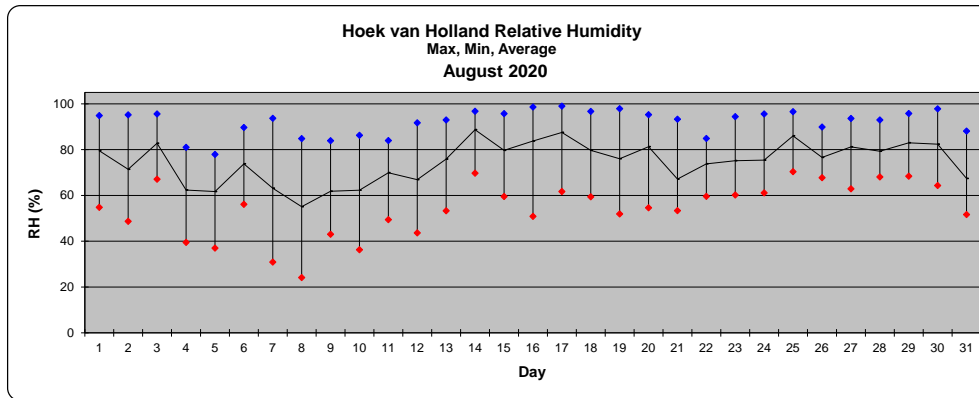
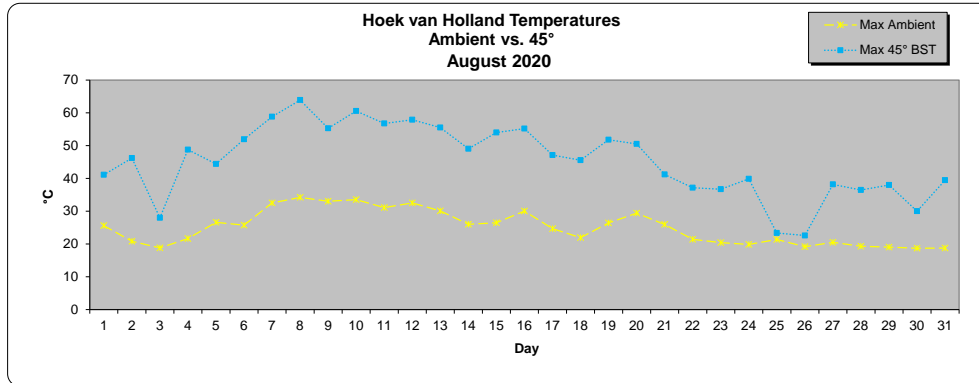
<sup>1</sup> Year To Date Total Solar Radiation - (290-3000 nm) Ultraviolet Solar Radiation - (295-385 nm) or (300-400 nm).

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			45 °			%			(m/s)		360°/0° = N	(mm)
Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	26	18	21	41	14	22	95	55	80	7.5	3.4	79°	0.0
2	21	16	19	46	10	22	95	49	71	7.9	3.3	106°	0.0
3	19	14	16	28	9	15	96	67	83	6.9	2.4	240°	22.1
4	22	13	18	49	6	22	81	40	62	6.5	2.4	115°	0.0
5	27	16	21	44	12	24	78	37	62	9.0	3.6	42°	0.0
6	26	17	22	52	11	25	90	56	74	5.6	2.3	59°	0.0
7	33	17	25	59	12	29	94	31	63	5.0	1.4	236°	0.0
8	34	19	26	64	13	29	85	24	55	7.1	1.7	259°	0.0
9	33	21	27	55	16	31	84	43	62	7.5	2.6	257°	0.0
10	34	20	26	61	15	31	86	36	62	5.9	1.5	261°	0.0
11	31	20	25	57	15	27	84	49	70	10.0	1.8	256°	0.0
12	33	20	26	58	15	31	92	44	67	6.8	1.7	253°	0.0
13	30	21	25	56	16	29	93	53	76	6.2	1.6	88°	0.3
14	26	20	22	49	16	23	97	70	89	6.2	2.5	95°	0.0
15	26	19	22	54	15	26	96	60	80	6.0	2.1	148°	0.0
16	30	18	23	55	14	25	99	51	84	14.6	1.6	279°	26.9
17	25	17	20	47	12	21	99	62	88	11.3	1.9	6°	2.0
18	22	18	20	46	14	22	97	59	80	8.5	3.2	55°	3.8
19	26	17	22	52	12	24	98	52	76	9.8	2.9	3°	4.1
20	29	20	23	51	16	25	95	55	81	8.3	2.8	3°	0.3
21	26	21	23	41	17	26	93	53	67	12.8	5.0	56°	0.0
22	21	19	20	37	15	20	85	60	74	14.7	6.9	63°	0.8
23	20	16	19	37	13	19	94	60	75	11.6	5.7	93°	7.1
24	20	17	18	40	13	19	96	61	75	10.2	4.6	89°	0.3
25	21	16	18	23	12	15	97	70	86	19.4	6.7	26°	3.8
26	19	16	18	23	12	16	90	68	77	20.6	9.4	51°	2.0
27	21	15	18	38	11	17	94	63	81	7.0	2.3	77°	1.0
28	19	15	18	36	11	17	93	68	79	13.4	4.9	134°	0.3
29	19	15	16	38	9	15	96	68	83	8.5	3.4	170°	20.1
30	19	14	16	30	9	13	98	64	82	13.9	4.7	171°	21.1
31	19	12	15	39	5	15	88	52	67	7.9	2.4	329°	0.0
Monthly Avg.	25	17	21	45	12	22	92	54	75	9.6	3.3	132°	
Monthly Total													115.8
YTD <sup>1</sup> Avg.	16	9	13	32	4	13	92	57	75	10.6	4.3	172°	
YTD <sup>1</sup> Total													487.7

<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

August 2020

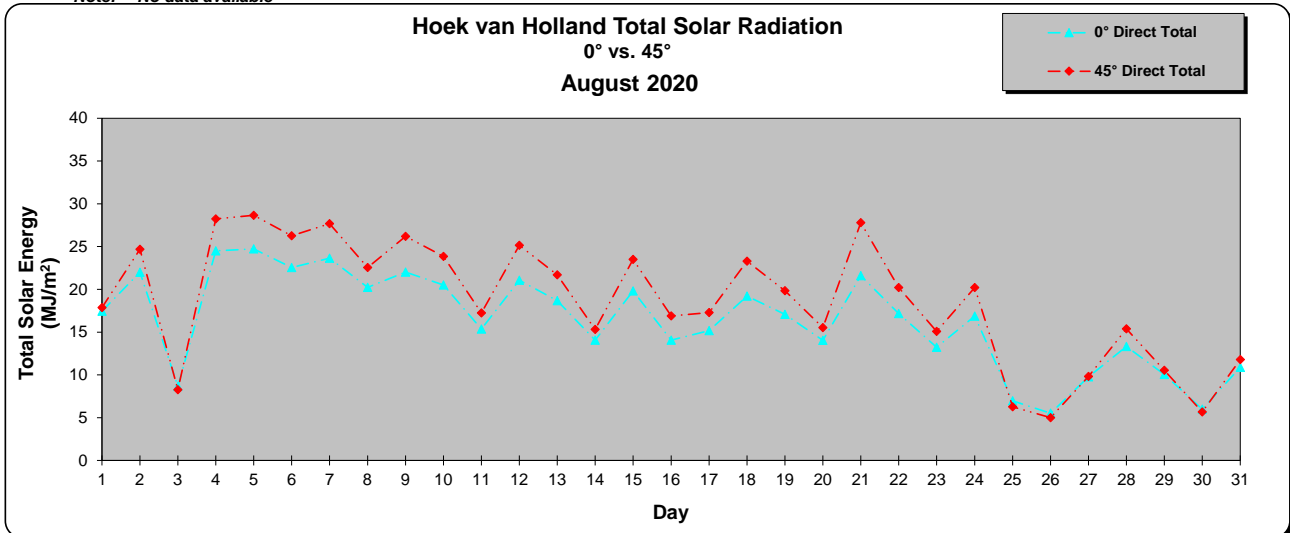
Hoek van Holland, The Netherlands

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

AWSG	Solar Radiation Summary	
Month	Total Solar Radiation (MJ/m <sup>2</sup> )	
August	Direct	
Day	0°	45°
1	17.5	17.9
2	22.0	24.7
3	8.7	8.3
4	24.5	28.2
5	24.7	28.7
6	22.5	26.3
7	23.7	27.7
8	20.2	22.6
9	22.0	26.2
10	20.5	23.9
11	15.4	17.2
12	21.1	25.2
13	18.7	21.7
14	14.1	15.3
15	19.8	23.5
16	14.1	16.9
17	15.2	17.3
18	19.2	23.3
19	17.1	19.8
20	14.1	15.5
21	21.6	27.8
22	17.2	20.2
23	13.2	15.1
24	16.9	20.2
25	7.0	6.3
26	5.5	5.0
27	9.8	9.8
28	13.3	15.4
29	10.0	10.5
30	6.0	5.7
31	10.9	11.8
<b>Monthly Total</b>	<b>506.2</b>	<b>577.7</b>
<b>YTD<sup>†</sup> Total</b>	<b>3478.2</b>	<b>4067.5</b>

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

Note: \* No data available

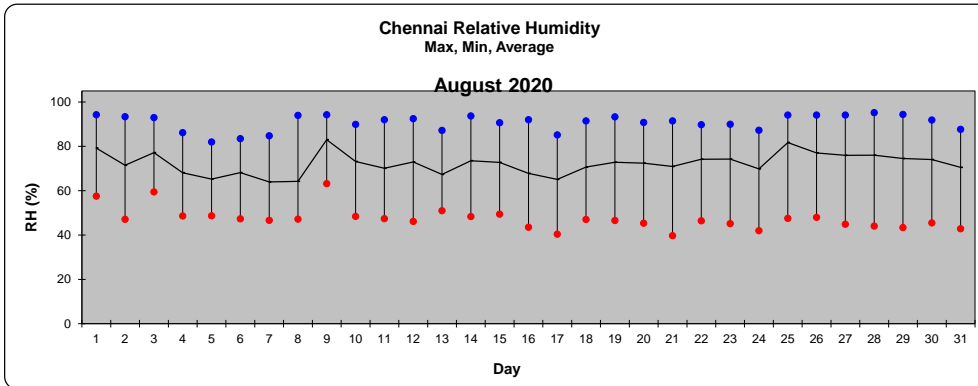
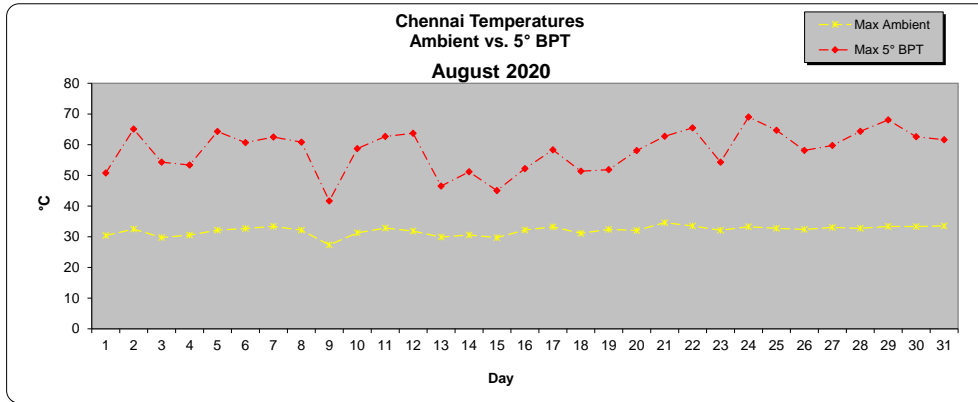




AWSG	Temperature Summary						Climate Summary							
	Month	Ambient Temperature			Black Metal Panel Temperature (ASTM G179) (°C)			Relative Humidity			Wind Speed		Wind Direction	Rainfall
		#REF!	° C			5 °			%			(m/s)	360°/70°= N	(mm)
	Day	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Avg	Avg	Total
1	30	22	26	51	24	32	94	58	79	3.2	0.6	357°	0.5	
2	32	22	26	65	24	34	93	47	71	10.7	1.2	251°	0.0	
3	30	21	25	54	23	30	93	59	77	5.2	0.8	254°	1.0	
4	31	23	26	53	24	32	86	49	68	6.3	1.5	240°	0.0	
5	32	23	27	64	24	33	82	49	65	4.7	0.9	254°	0.0	
6	33	23	27	61	24	34	84	47	68	4.7	0.8	12°	0.0	
7	33	23	28	63	24	35	85	47	64	5.3	1.0	252°	0.0	
8	32	22	28	61	23	34	94	47	64	5.8	1.2	270°	7.4	
9	27	21	24	42	24	29	94	63	83	5.3	0.9	253°	10.4	
10	31	22	26	59	24	33	90	48	73	4.9	1.0	247°	0.0	
11	33	22	27	63	24	35	92	47	70	5.6	0.9	259°	2.5	
12	32	22	27	64	24	33	93	46	73	5.4	0.7	224°	0.0	
13	30	23	27	47	25	32	87	51	67	4.6	0.9	258°	0.5	
14	31	22	26	51	24	32	94	48	74	4.7	0.9	228°	0.0	
15	30	22	26	45	23	31	91	49	73	5.3	0.9	216°	0.0	
16	32	22	27	52	23	33	92	43	68	7.6	1.1	224°	0.0	
17	33	23	28	58	25	34	85	40	65	6.2	1.1	228°	0.0	
18	31	24	27	51	25	33	92	47	71	5.3	0.9	237°	2.3	
19	32	22	27	52	24	33	93	47	73	4.7	0.8	198°	0.3	
20	32	24	27	58	25	33	91	45	72	3.6	0.8	247°	0.0	
21	35	23	28	63	24	36	92	40	71	4.3	0.8	88°	0.0	
22	34	23	27	65	25	34	90	46	74	4.7	0.7	105°	0.0	
23	32	23	27	54	25	33	90	45	74	7.5	0.9	150°	0.0	
24	33	22	26	69	24	34	87	42	70	5.4	1.2	275°	0.0	
25	33	22	25	65	25	32	94	48	82	5.3	0.7	3°	1.5	
26	32	22	26	58	24	33	94	48	77	3.6	0.7	13°	0.0	
27	33	21	26	60	23	33	94	45	76	6.4	1.0	282°	21.3	
28	33	21	26	64	23	35	95	44	76	4.2	0.8	323°	0.3	
29	33	23	27	68	25	35	94	43	75	3.6	0.7	50°	0.0	
30	33	23	27	63	25	35	92	45	74	5.5	1.0	0°	0.0	
31	34	22	27	62	24	34	88	43	71	4.9	1.1	319°	0.0	
Monthly Avg.	32	22	26	58	24	33	91	47	72	5.3	0.9	204°		
Monthly Total													48.0	
YTD <sup>†</sup> Avg.	32	21	25	60	22	33	92	44	73	5.1	0.9	152°		
YTD <sup>†</sup> Total													352.5	

<sup>†</sup> Year To Date

Note: \* Data Unavailable





# ATLAS

**WEATHERING SERVICES GROUP**



## Solar Radiation Summary August 2020 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> )	
August	Direct	295-385 nm	300-400 nm
Day	5°	5°	
1	13.4	0.64	0.71
2	20.4	0.88	0.99
3	11.5	0.55	0.61
4	15.2	0.68	0.76
5	16.9	0.74	0.83
6	18.1	0.77	0.86
7	19.2	0.81	0.91
8	17.0	0.74	0.83
9	10.0	0.48	0.54
10	17.42	0.76	0.84
11	22.6	0.90	1.01
12	16.8	0.72	0.80
13	11.5	0.51	0.57
14	14.8	0.62	0.69
15	12.5	0.57	0.63
16	18.4	0.75	0.84
17	19.7	0.81	0.91
18	12.6	0.58	0.64
19	16.2	0.69	0.78
20	14.9	0.64	0.72
21	22.4	0.90	1.00
22	18.2	0.75	0.84
23	13.3	0.61	0.68
24	20.5	0.86	0.96
25	15.6	0.66	0.73
26	14.3	0.60	0.67
27	18.6	0.73	0.82
28	23.4	0.92	1.03
29	20.2	0.82	0.91
30	23.0	0.91	1.02
31	20.4	0.84	0.94
<b>Monthly Total</b>	<b>528.8</b>	<b>22.44</b>	<b>25.05</b>
<b>YTD<sup>1</sup> Total</b>	<b>4904.3</b>	<b>210.82</b>	<b>235.34</b>

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

Note:

