

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity		1578.4 cd per klm.
(Luminaire orientat	tion as tested.)	0.0 degrees vertical
		0.0 degrees horizontal
Beam Spread	At 10% of Imax	83.8V x 82.0H
	At 50% of Imax	40.0V x 40.1H
	At 90% of Imax	17.5V x 17.5H
Beam Flux	Total	1000.2 lumens per klm.
	To 10% of Imax	870.7 lumens per klm.
	To 50% of Imax	438.9 lumens per klm.
	To 90% of Imax	106.9 lumens per klm.
	Upward LOR	0.9 %
	Downward LOR	99.1 %
	(T. 1. 0	100 0 0
Luminaire Efficiend	cy(Light Output Ratio)	100.0 %

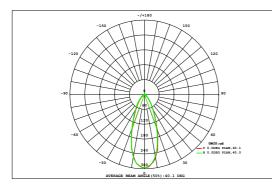
Humidity:65.0%

Test Distance:13.563m [K=1.0000]



## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:12.49V I:0.2386A P:1.883W PF:0.6320 Freq:59.98Hz Lamp Flux:186.979x1 lm										
NAME: Half Nano	TYPE:	WEIGHT:								
SPEC.:	DIM.:	SERIAL No.:1								
MFR.: EVERFINE	SUR.:	Shielding Angle:								



DATA OF LAI	MP	Eff:99.29lm/W							
MODEL N4B2-2W-	30K-30-A	Imax (cd)	295.1						
NOMINAL POWER (W)	2	AVAILABILITY(%)	86.9						
RATED VOLTAGE (V)	AC12	Avai. FLUX(lm)	162.6						
NOMINAL FLUX(lm)	186.979	LOR (%)	100.0						
LAMPS INSIDE	1	TOTAL FLUX(1m)	187.0						
TEST VOLTAGE (V)	12	θ @50%(H,V)	40,40DEG						

		AREA FLUX DIAGRAM UNIT:1m														: 1m	Φt	Фа		
72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
64	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.04	0.04	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.24	0.00
56 48	0.00	0.00	0.00	0.02	0.04	0.09	0.14	0.18	0.20	0.20	0.17	0.12	0.07	0.03	0.01	0.00	0.00	0.00	1.28	0.00
40	0.00	0.00	0.01	0.06	0.13	0.22	0.31	0.39	0.44	0.44	0.39	0.31	0.21	0.11	0.03	0.01	0.00	0.00	3.07	0.07
32	0.00	0.01	0.04	0.12	0.23	0.37	0.54	0.71	0.82	0.83	0.72	0.55	0.38	0.22	0.10	0.02	0.00	0.00	5.66	3.59
24	0.00	0.01	0.08	0.19	0.34	0.58	0.90	1.26	1.51	1.51	1.27	0.92	0.60	0.35	0.17	0.05	0.01	0.00	9.75	8.35
	0.00	0.02	0.11	0.24	0.47	0.85	1.45	2.17	2.74	2.75	2.20	1.46	0.87	0.48	0.24	0.09	0.01	0.00	16.2	15.1
(DEG)	0.00	0.03	0.13	0.29	0.59	1.15	2.10	3.37	4.36	4.39	3.46	2.14	1.17	0.61	0.30	0.11	0.02	0.00	24.2	23.3
CAL (1	0.00	0.04	0.15	0.32	0.67	1.35	2.59	4.28	5.40	5.39	4.37	2.68	1.39	0.69	0.33	0.13	0.02	0.00	29.8	28.9
ic,	0.00	0.04	0.15	0.33	0.68	1.36	2.60	4.27	5.41	5.44	4.39	2.69	1.40	0.70	0.33	0.13	0.02	0.00	30.0	29.1
VERTI	0.00	0.04	0.14	0.31	0.62	1.19	2.13	3.37	4.36	4.42	3.49	2.20	1.22	0.63	0.31	0.12	0.02	0.00	24.6	23.6
-24	0.00	0.03	0.12	0.26	0.51	0.92	1.53	2.24	2.80	2.83	2.29	1.56	0.94	0.52	0.26	0.10	0.02	0.00	16.9	15.9
-32	0.00	0.02	0.09	0.21	0.39	0.65	1.00	1.37	1.62	1.63	1.38	1.02	0.67	0.40	0.20	0.07	0.01	0.00	10.7	9.42
-40	0.00	0.01	0.06	0.15	0.27	0.43	0.63	0.81	0.93	0.93	0.82	0.64	0.45	0.27	0.13	0.03	0.01	0.00	6.56	4.74
-48	0.00	0.00	0.02	0.09	0.17	0.27	0.37	0.47	0.53	0.53	0.47	0.38	0.27	0.16	0.06	0.01	0.00	0.00	3.80	0.64
-56	0.00	0.00	0.01	0.03	0.08	0.14	0.20	0.25	0.28	0.28	0.24	0.19	0.12	0.05	0.02	0.00	0.00	0.00	1.88	0.00
-64			0.00																	
-72	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00			0.00	0.06	0.00
			56 -4					L6 HOI							_		6 6		2	
Φt			1.10																185	
Фа	0.00	0.00	0.00	0.10	3.22	7.99	15.1	23.9	30.2	30.4	24.4	15.5	8.27	3.38	0.12	0.00	0.00	0.00		163

one-half-peak spread: U:19.9,D:20.5 , L:18.0,R:18.4 NEMA Beam Type: Type 5

H( $\beta$ ) Range:-90 - 90DEG H( $\beta$ ) Interval: 0.5DEG Test Speed: HIGH

Temperature: 25.3DEG Operators: ADMIN Test Date: 2022-03-05 V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

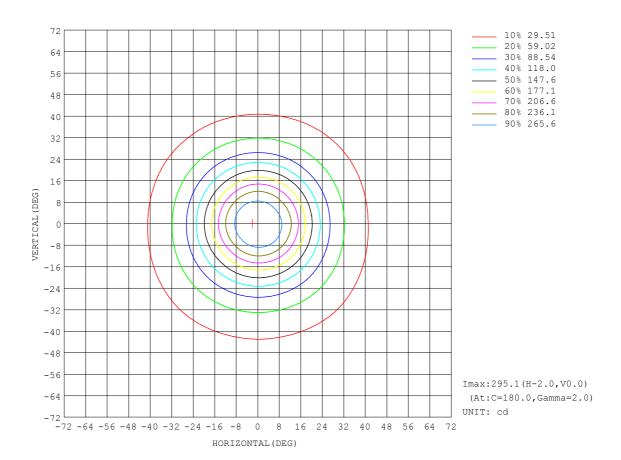
Humidity:65.0%

Test Distance:13.563m [K=1.0000]



### ISOCANDELA DIAGRAM

Test:U:12.49V I:0.2386A P:1.883W PF:0.6320 Freq	:59.98Hz Lamp Flux:186.979x1	l lm
NAME: Half Nano	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



H( $\beta$ ) Range:-90 - 90DEG H( $\beta$ ) Interval: 0.5DEG Test Speed: HIGH

Temperature:25.3DEG Operators:ADMIN Test Date:2022-03-05 V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

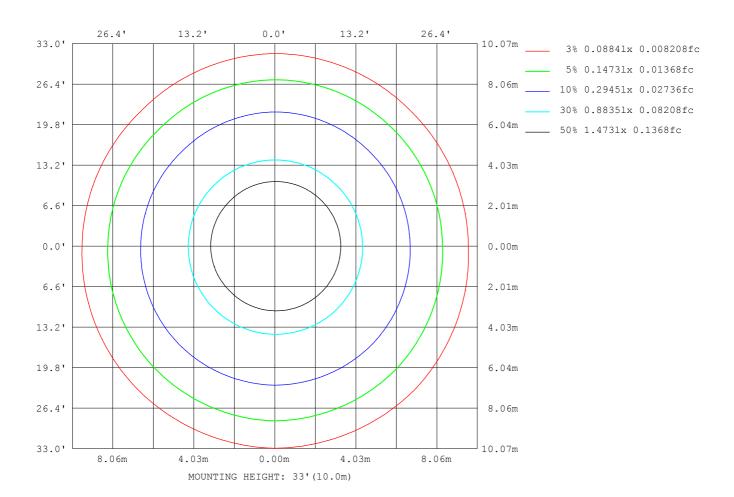
Humidity:65.0%

Test Distance:13.563m [K=1.0000]



### ISOLUX DIAGRAM

Test:U:12.49V I:0.2386A P:1.883W PF:0.6320 Freq	:59.98Hz Lamp Flux:186.979x1	. 1m
NAME: Half Nano	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:	Shielding Angle:



Temperature:25.3DEG Operators:ADMIN Test Date:2022-03-05 V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

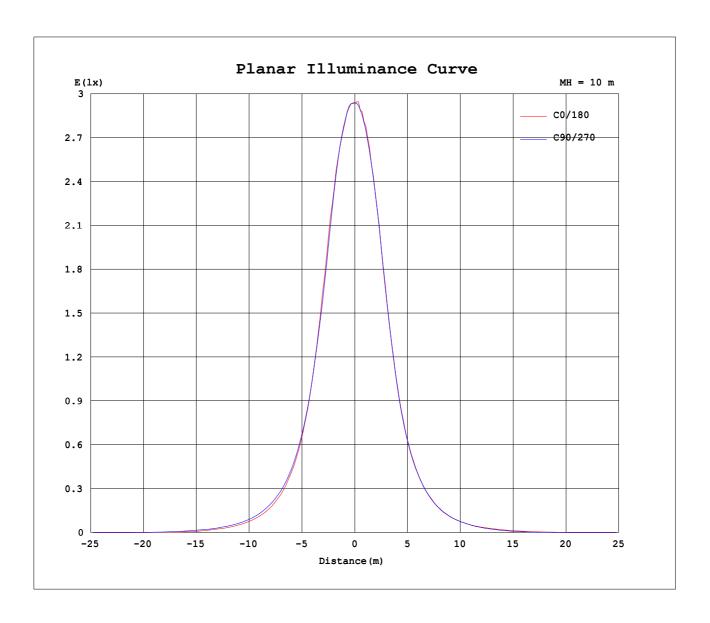
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

Humidity:65.0%

Test Distance:13.563m [K=1.0000]



# Planar Illuminance Curve



Temperature: 25.3DEG Operators:ADMIN Test Date:2022-03-05

H( $\beta$ ) Range:-90 - 90DEG H( $\beta$ ) Interval: 0.5DEG Test Speed: HIGH

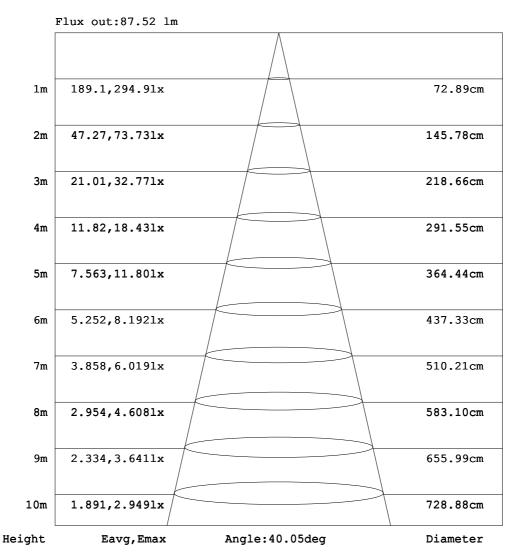
V(B) Interval: 0.5DEG

Humidity:65.0%



## AAI Figure

Test:U:12.49V I:0.2386A P:1.883W PF:0.6320 Freq:59.98Hz Lamp Flux:186.979x1 lm										
NAME: Half Nano	TYPE:	WEIGHT:								
SPEC.:	DIM.:	SERIAL No.:1								
MFR.: EVERFINE	SUR.:	Shielding Angle:								



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG H( $\beta$ ) Interval: 0.5DEG Test Speed: HIGH Temperature:25.3DEG

Operators:ADMIN
Test Date:2022-03-05

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

Humidity:65.0%

Test Distance:13.563m [K=1.0000]



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.49V I:0.2386A P:1.883W PF:0.6320 Freq:59.98Hz Lamp Flux:186.979x1 lm										
NAME: Half Nano	TYPE:	WEIGHT:								
SPEC.:	DIM.:	SERIAL No.:1								
MFR.: EVERFINE	SUR.:	Shielding Angle:								

Table1																UNI	T: cd		
H (DEG)																			
V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.29	0.52	0.78	1.05	1.32	1.56	1.73	1.88	1.97
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.29	0.54	0.82	1.11	1.39	1.63	1.81	1.85	1.84
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.26	0.46	0.70	0.96	1.21	1.40	1.51	1.56	1.56
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.13	0.30	0.47	0.66	0.79	0.91	1.00	1.05	1.05
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.11	0.18	0.27	0.36	0.43	0.47	0.49	0.50
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.09	0.11	0.11
-120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11	0.18	0.22	0.25	0.27	0.28
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.34	0.58	0.92	1.42	2.03	2.75	3.45	4.04	4.38	4.44
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.40	0.95	2.13	4.45	7.00	9.07	11.1	12.9	14.5	15.9	16.9	17.3
-40	0.00	0.00	0.00	0.00	0.00	0.13	0.49	1.48	4.13	7.69	11.0	14.5	18.2	22.3	26.4	30.2	33.4	35.8	36.9
-30	0.00	0.00	0.00	0.00	0.01	0.34	1.26	4.22	8.42	12.8	17.5	23.6	30.8	39.1	48.2	57.3	65.5	71.2	73.5
-20	0.00	0.00	0.00	0.00	0.10	0.61	2.43	6.98	11.8	17.1	24.4	34.1	46.9	63.1	82.8	104	126	142	149
-10	0.00	0.00	0.00	0.00	0.15	0.86	3.62	8.57	13.9	20.4	30.0	43.6	62.1	88.4	124	166	209	243	256
0	0.00	0.00	0.00	0.00	0.15	0.92	3.96	9.03	14.2	21.2	31.6	46.6	68.3	100	146	202	255	284	293
10	0.00	0.00	0.00	0.00	0.14	0.81	3.33	8.15	13.4	19.6	28.8	42.0	60.1	86.3	122	166	211	243	254
20	0.00	0.00	0.00	0.00	0.09	0.54	2.05	6.13	10.8	15.9	22.6	31.5	43.5	58.9	78.3	100	122	138	145
30	0.00	0.00	0.00	0.00	0.00	0.28	1.01	3.18	7.04	11.1	15.6	20.8	27.0	34.3	43.1	51.9	59.9	65.4	67.4
40	0.00	0.00	0.00	0.00	0.00	0.09	0.37	1.05	2.70	5.62	8.72	12.0	15.4	18.9	22.4	25.6	28.4	30.3	31.2
50	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.26	0.61	1.21	2.30	4.09	6.11	7.98	9.61	11.1	12.2	13.0	13.2
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.18	0.31	0.47	0.71	0.95	1.22	1.48	1.69	1.77	1.72
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.04	0.03	0.02	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.14	0.20	0.25	0.30	0.32
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.20	0.33	0.46	0.60	0.70	0.77	0.80
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.29	0.46	0.67	0.88	1.05	1.19	1.29	1.34
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.22	0.44	0.68	0.94	1.19	1.39	1.55	1.68	1.74
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.29	0.52	0.78	1.05	1.32	1.56	1.73	1.88	1.98

H(β) Range:-90 - 90DEG H(β) Interval: 0.5DEG Test Speed: HIGH Temperature:25.3DEG

Operators:ADMIN
Test Date:2022-03-05

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

Humidity:65.0%

Test Distance:13.563m [K=1.0000]



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.49V I:0.2386A P:1.883W PF:0.6320 Freq:59.98Hz Lamp Flux:186.979x1 lm										
NAME: Half Nano	TYPE:	WEIGHT:								
SPEC.:	DIM.:	SERIAL No.:1								
MFR.: EVERFINE	SUR.:	Shielding Angle:								

Table2																UNI	T: cd		
H (DEG)																			
V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	1.95	1.84	1.78	1.58	1.34	1.06	0.77	0.55	0.29	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-170	1.85	1.80	1.69	1.50	1.26	1.00	0.74	0.49	0.28	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-160	1.55	1.50	1.37	1.22	1.00	0.79	0.57	0.36	0.18	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-150	1.05	0.99	0.91	0.79	0.65	0.49	0.33	0.18	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-140	0.49	0.47	0.42	0.36	0.27	0.19	0.10	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-130	0.11	0.08	0.06	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-70	0.26	0.23	0.19	0.14	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-60	4.12	3.56	2.83	2.10	1.50	1.02	0.66	0.41	0.23	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-50	16.9	15.9	14.4	12.6	10.5	7.93	4.88	2.57	1.28	0.62	0.28	0.05	0.00	0.00	0.00	0.00	0.00	0.00	
-40	36.0	33.8	30.6	27.0	23.0	18.5	14.2	10.1	5.55	2.27	0.90	0.35	0.05	0.00	0.00	0.00	0.00	0.00	
-30	71.6	66.1	58.1	49.1	40.0	31.7	24.4	17.6	11.9	6.34	2.22	0.76	0.23	0.00	0.00	0.00	0.00	0.00	
-20	144	128	107	84.7	64.7	47.9	34.8	25.0	17.1	10.6	4.34	1.31	0.40	0.03	0.00	0.00	0.00	0.00	
-10	247	217	173	128	90.7	63.9	44.3	30.4	20.7	13.0	6.20	1.78	0.53	0.08	0.00	0.00	0.00	0.00	
0	285	259	208	150	104	69.9	47.2	32.0	21.5	13.6	6.70	1.84	0.56	0.10	0.00	0.00	0.00	0.00	
10	244	215	172	125	87.8	61.8	42.8	29.4	19.8	12.4	5.67	1.62	0.49	0.07	0.00	0.00	0.00	0.00	
20	140	123	101	78.5	60.0	44.5	32.3	23.0	15.6	9.47	3.49	1.11	0.35	0.01	0.00	0.00	0.00	0.00	
30	65.6	60.3	52.7	44.0	35.6	28.0	21.2	15.3	10.1	4.63	1.63	0.59	0.17	0.00	0.00	0.00	0.00	0.00	
40	30.5	28.7	26.1	22.8	19.0	15.0	11.2	7.30	3.40	1.47	0.62	0.24	0.01	0.00	0.00	0.00	0.00	0.00	
50	12.9	12.0	10.7	9.08	6.96	4.42	2.48	1.38	0.74	0.37	0.15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
60	1.64	1.47	1.22	0.95	0.70	0.48	0.30	0.18	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
130	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
140	0.29	0.24	0.20	0.14	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150	0.76	0.69	0.59	0.45	0.31	0.21	0.15	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160	1.28	1.19	1.03	0.86	0.71	0.54	0.39	0.23	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
170	1.68	1.52	1.45	1.31	1.09	0.86	0.63	0.41	0.23	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
180	1.95	1.84	1.78	1.58	1.34	1.06	0.77	0.55	0.29	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

H(β) Range:-90 - 90DEG H(β) Interval: 0.5DEG Test Speed: HIGH Temperature:25.3DEG

Operators:ADMIN
Test Date:2022-03-05

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.352

Humidity:65.0%

Test Distance:13.563m [K=1.0000]