



### TECHNICAL INFORMATION

Watts:	40
Lumens:	4800
Unit Color:	Black
Body Type:	ABS+PC and Aluminium
LED Chip Type:	SMD 2835
Operation Temperature:	-20°C to +60°C
Color Temperature:	4000K
Dimension:	289.7x73.6x706.1mm
Sensor Type:	PIR
Detection Distance:	8-12m
Detection Angle:	120°
Battery Type:	Life PO4 9.6V, 12000mAh Battery
Charging Time:	8-10Hours
Working Time:	Min 36Hours Max 120Hours
Lumens per watt:	120
No. Of Led:	40
ULR Percentage:	0.5



**IP65**  
RATING



**3 YEAR**  
WARRANTY



**120**  
Lumen/W

### FEATURES

- Solar Powered-Zero cost
- Easy installation-Cordless to install
- 3 optional installations-Straight Pole, Curved Pole and Wall Mounted
- Monocrystalline Silicone 21W/13.5V Solar panel
- Smart PIR Sensor with Remote control
- Suitable for Pathways, Garden, Patio and similar outdoor environment



### SOLAR STREETLIGHTS | LED LIGHTING

V-TAC's LED Lighting range includes lighting that fulfills the needs of various end-users and industries, offering efficient and innovative products that provide modern solutions at an affordable price. We are proud to also provide an extended multi-year warranty on our products, as well as detailed support.

One brand, endless solutions..

SKU: 5503 - 1410 938

[View more details](#)



### PACKAGING

Gross Weight (Kgs): 6.32  
Unit CBM: 0.02592  
Dimension: 289.7x73.6x706.1mm

### MASTER BOX PACKAGING

Box Qty: 4  
Qty Per Pallet: 48  
Length (Box) mm: 330  
Width (Box) mm: 92  
Height (Box) mm: 732

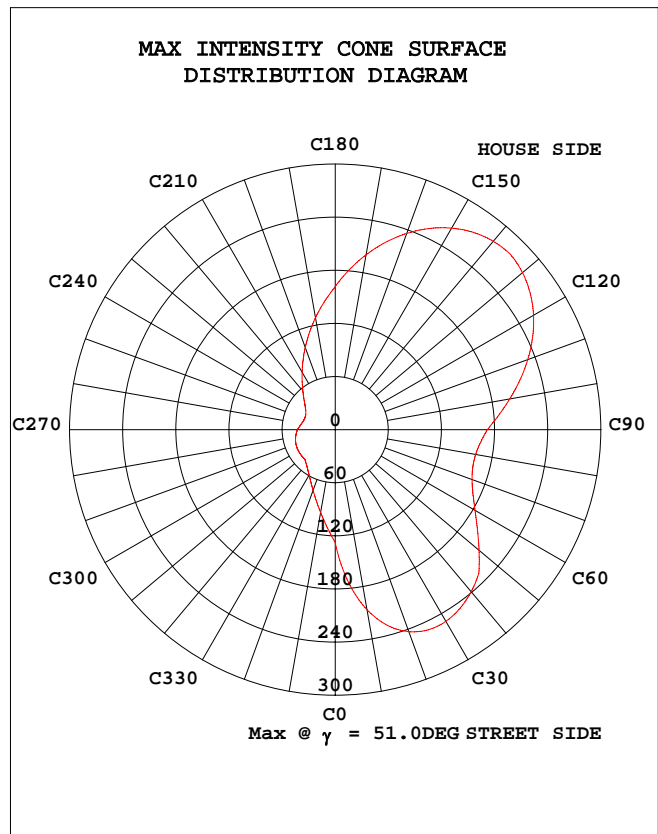
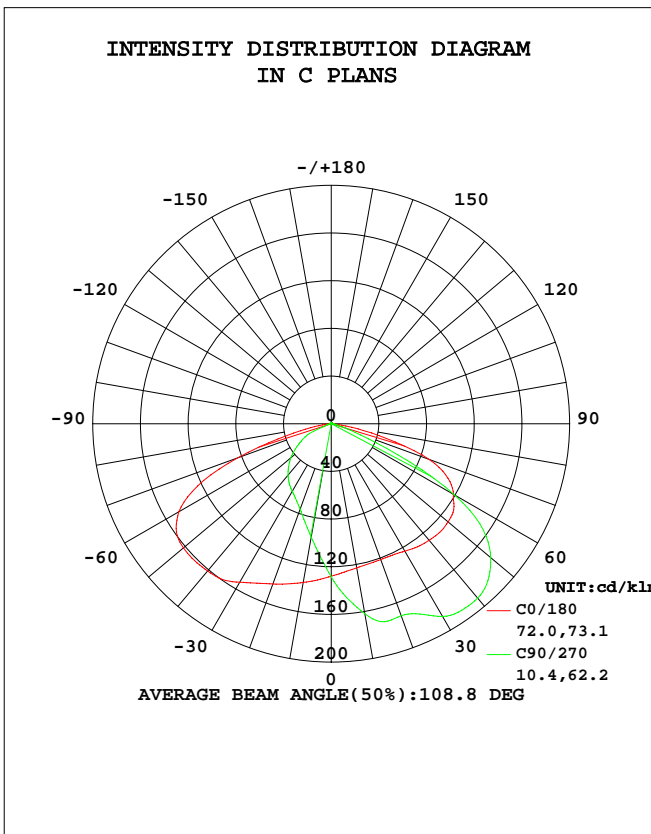
### LISTING DETAILS

Commodity Code: 9405411000  
Ean Code: 3800157658140

**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:0V I:0A P:0W PF:1.000 Freq:0Hz Lamp Flux:4777x1 lm		
NAME: VT-ST42	TYPE: SOLAR STREETLIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: V-TAC	SUR.:	Shielding Angle:

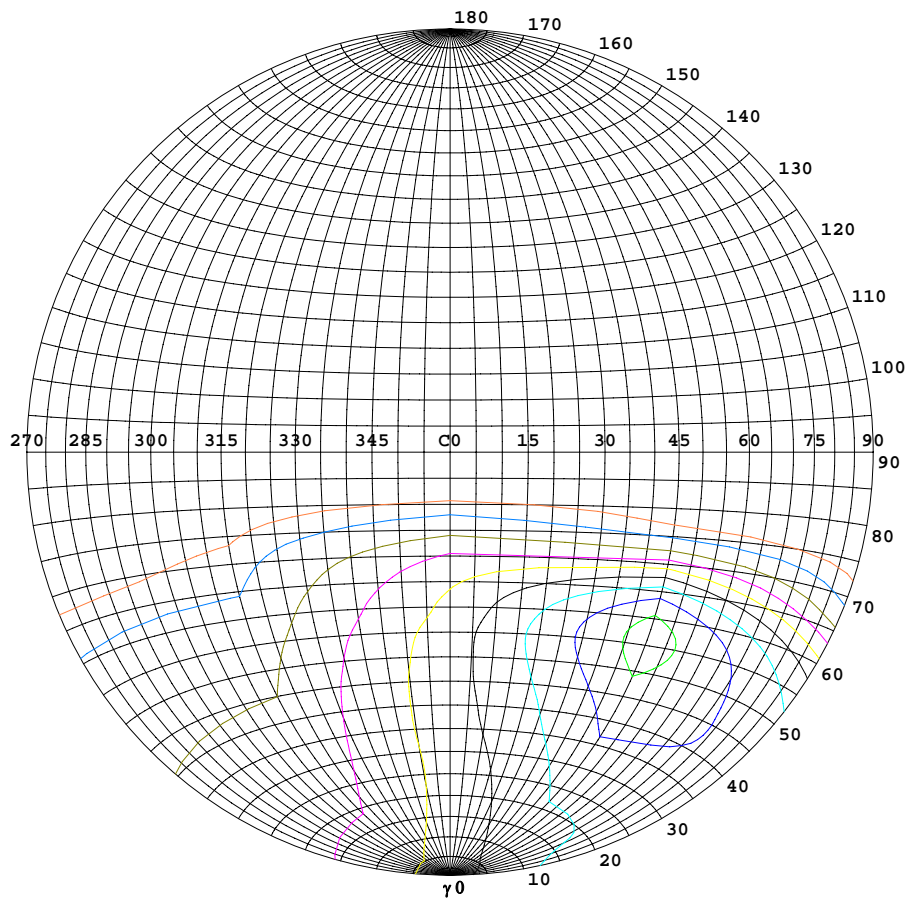
DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	VT-ST42	I <sub>max</sub> (cd/klm)	279.9	η street_up(%)	0.3
NOMINAL POWER(W)	40w	LOR(%)	53.9	η street_down(%)	30.7
RATED VOLTAGE(V)		TOTAL FLUX(lm/klm)	539.5	η house_up(%)	0.2
NOMINAL FLUX(lm)	4777	MAXIMUM @(C,γ )	135,51.0	η house_down(%)	22.7
LAMPS INSIDE	1	η up(%)	0.5	76 FLASHAREA(m2)	
TEST VOLTAGE(V)		η down(%)	53.5	SLI	



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:

**STREETLIGHT ISOCANDELA DIAGRAM**



**Classification:**

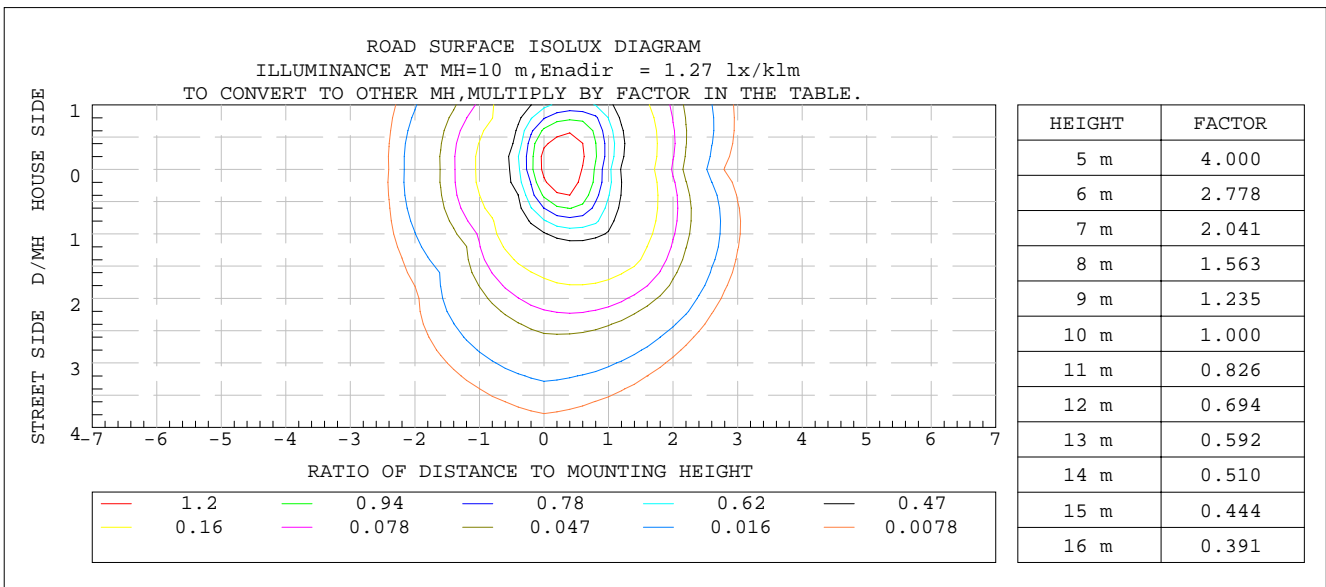
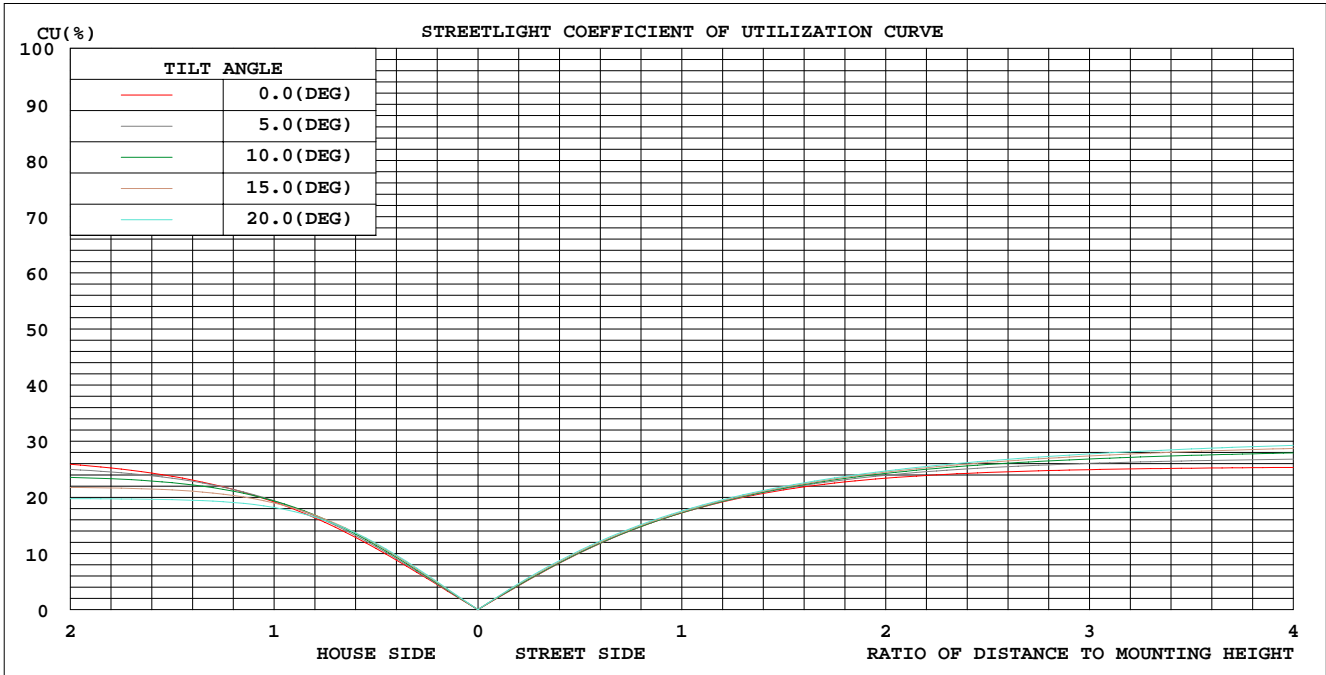
IES:Type V - Very Short  
 CIE:Narrow - Short  
 IES:Cut-off  
 CIE:Full cut-off  
 Max.At80:17.65cd/klm  
 Max.At90:0.8657cd/klm  
 Max.80-90:17.65cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd/klm
Imax=100%	280
90%	252
80%	224
70%	196
60%	168
50%	140
40%	112
30%	84
20%	56
10%	28
5%	14

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 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-21

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 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2021-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 11.100m [K=1.0000]  
Remarks:

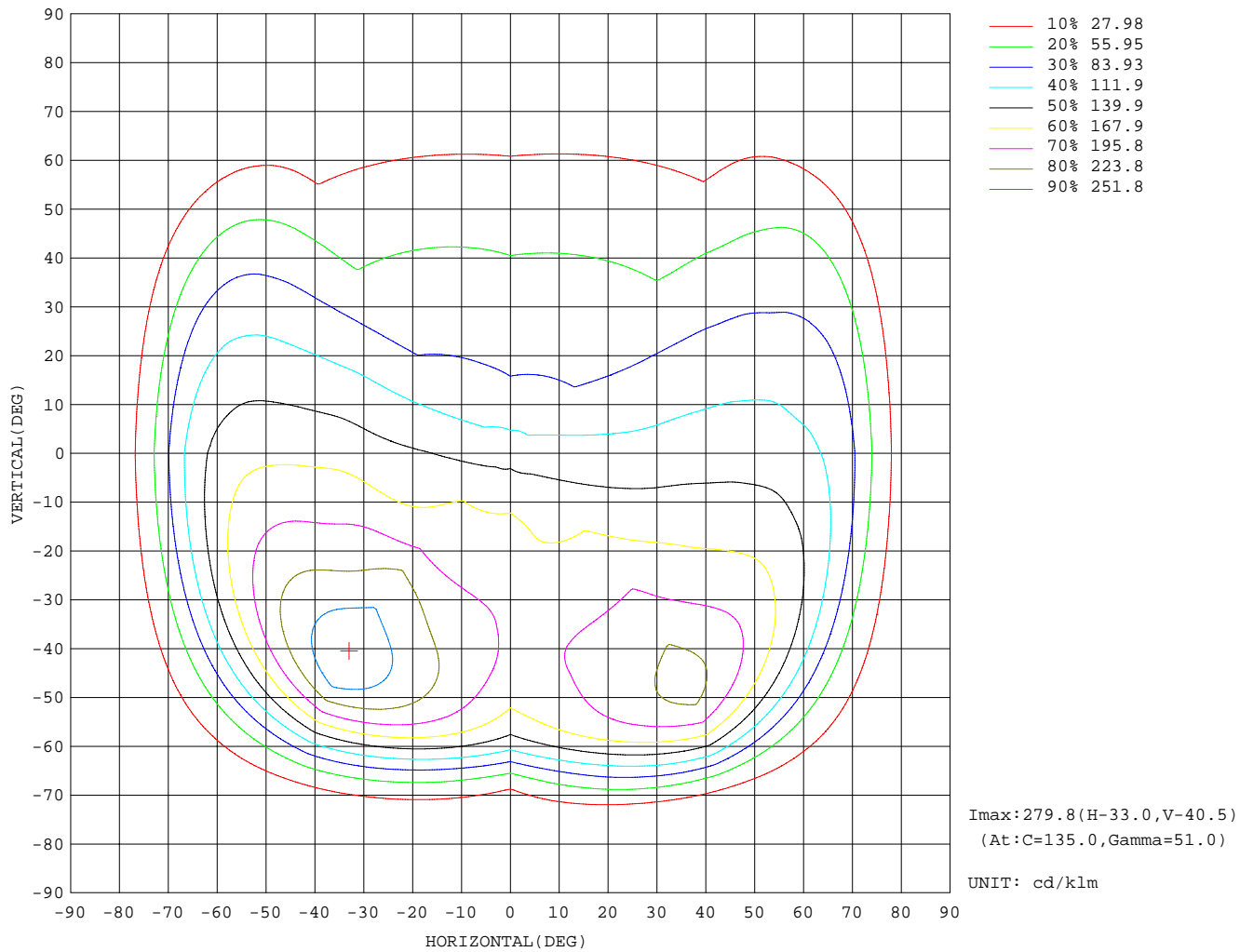
## ZONAL FLUX DIAGRAM

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	122.9	147.6	161.7	157.7	135.2	107.3	96.68	100.1	0- 10	12.23	12.23	2.27,1.22
20	121.3	164.7	171.5	177.4	143.1	92.56	76.40	82.19	10- 20	36.57	48.81	9.05,4.88
30	123.4	182.9	186.7	213.0	153.6	80.55	65.50	70.59	20- 30	60.55	109.4	20.3,10.9
40	127.7	202.0	191.0	248.3	161.2	66.98	56.46	61.08	30- 40	86.54	195.9	36.3,19.6
50	128.0	226.7	174.6	279.7	162.0	51.84	44.14	49.60	40- 50	108.5	304.4	56.4,30.4
60	118.3	227.6	119.3	222.4	147.6	35.05	29.14	34.81	50- 60	118.0	422.4	78.3,42.2
70	87.24	97.73	21.32	69.85	83.07	16.29	5.621	18.85	60- 70	84.55	507.0	94,50.7
80	17.65	7.589	3.523	6.515	14.29	3.859	2.160	5.225	70- 80	24.82	531.8	98.6,53.2
90	0.8657	0.7640	0.6548	0.5240	0.7460	0.2450	0.0853	0.3734	80- 90	2.953	534.7	99.1,53.5
100	0.7515	0.2090	0.1091	0.1704	0.5328	0.5999	0.2878	0.5414	90-100	0.3782	535.1	99.2,53.5
110	0.9713	0.3036	0.1863	0.2383	0.9996	0.8648	0.6285	0.9472	100-110	0.5479	535.7	99.3,53.6
120	1.082	0.4459	0.2833	0.3395	0.9143	1.066	0.9625	1.212	110-120	0.7102	536.4	99.4,53.6
130	1.175	0.5737	0.3832	0.4406	0.9943	1.204	1.218	1.327	120-130	0.7654	537.1	99.6,53.7
140	1.219	0.7161	0.4777	0.5271	1.067	1.299	1.370	1.400	130-140	0.7454	537.9	99.7,53.8
150	1.220	0.8559	0.6067	0.6336	1.091	1.356	1.445	1.439	140-150	0.6577	538.5	99.8,53.9
160	1.207	1.002	0.7690	0.7627	1.103	1.332	1.417	1.354	150-160	0.5087	539.0	99.9,53.9
170	1.192	1.129	0.9687	0.9184	1.137	1.287	1.305	1.223	160-170	0.3209	539.4	100,53.9
180	1.163	1.223	1.151	1.070	1.164	1.222	1.154	1.070	170-180	0.1095	539.5	100,53.9
DEG	LUMINOUS INTENSITY:cd/klm									UNIT:lm/klm		

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:11.100m [K=1.0000]  
Remarks:

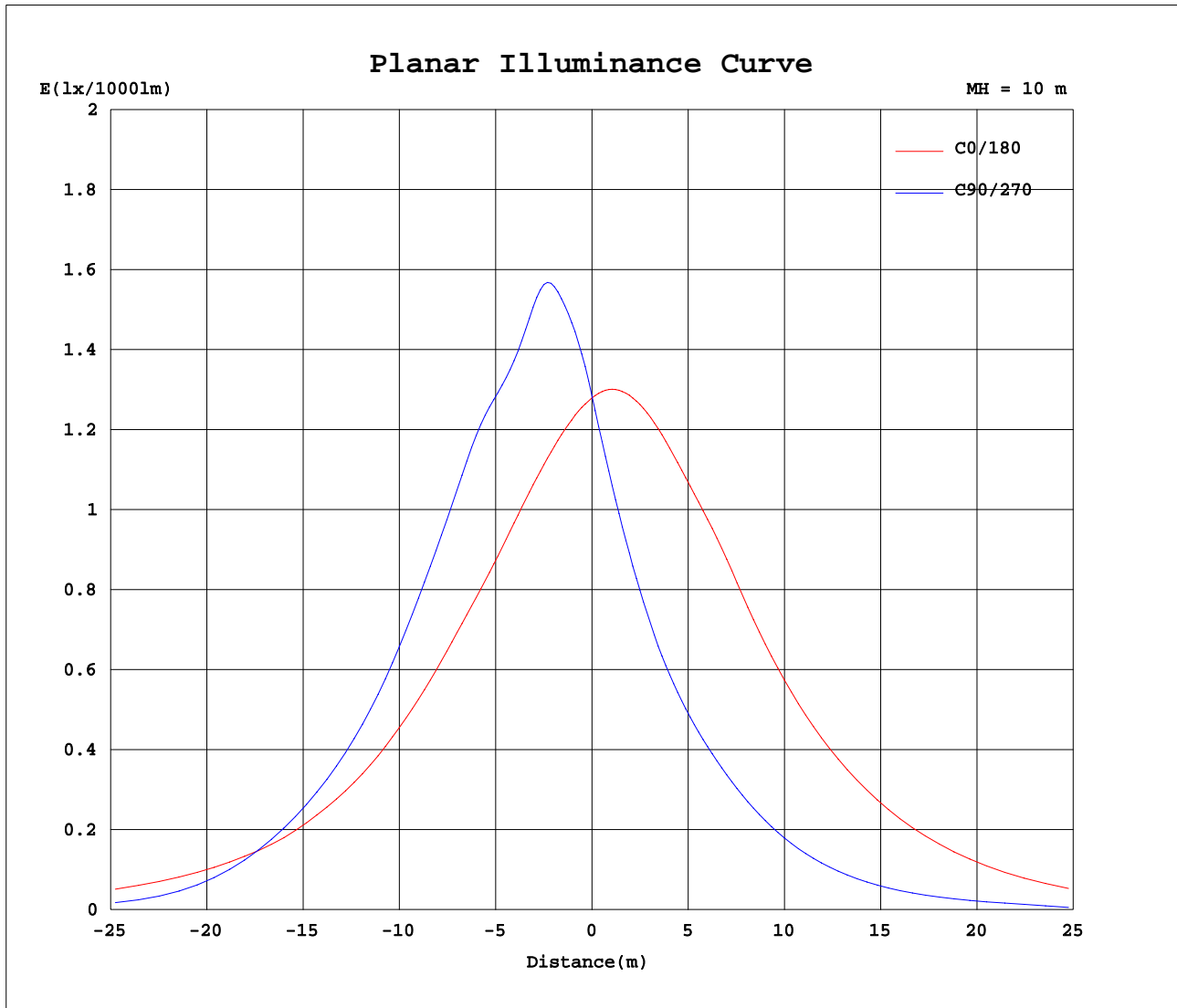
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 11.100m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



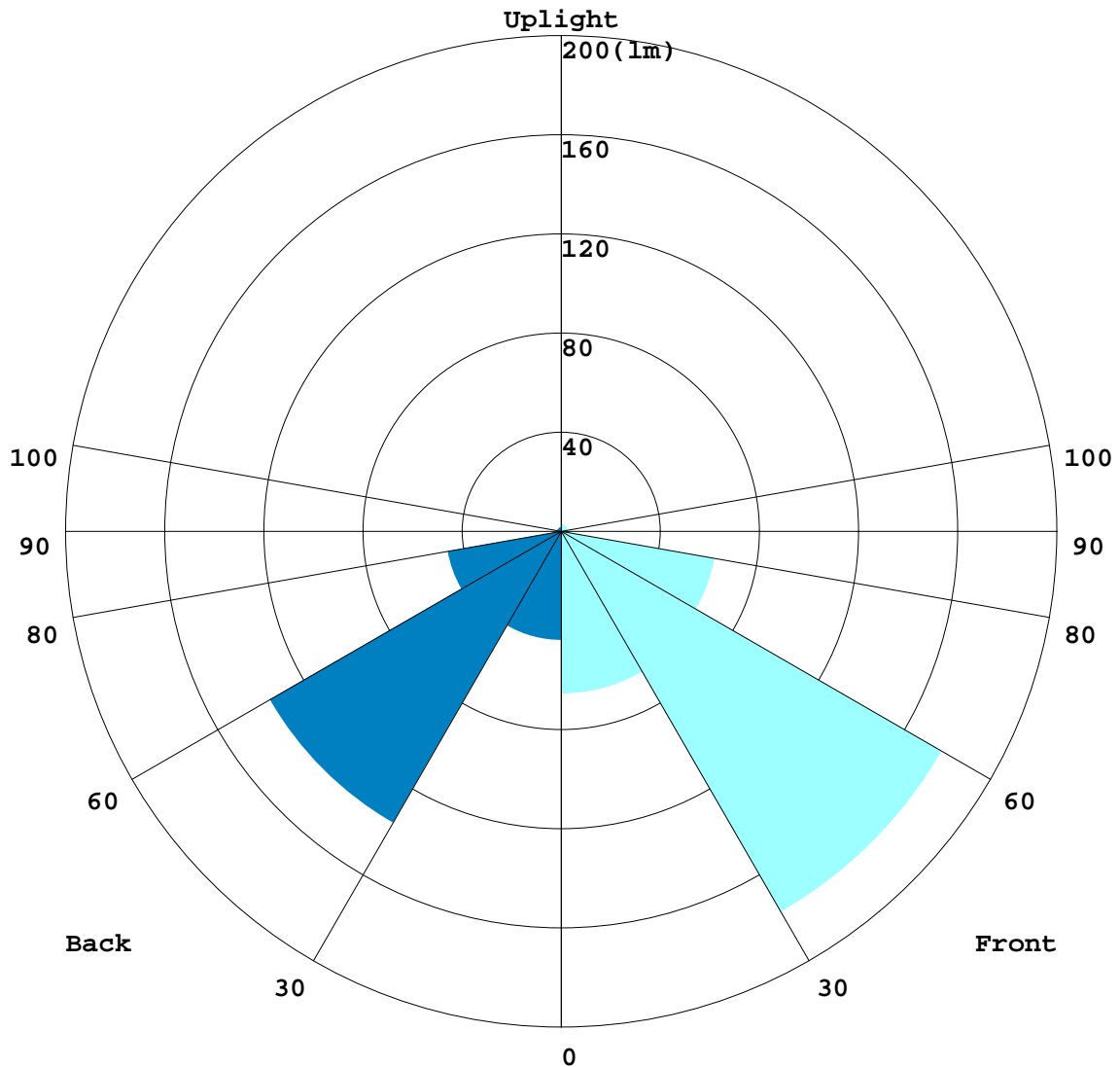
C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 11.100m [K=1.0000]  
 Remarks:

LCS REPORT

Test:U:0V I:0A P:0W PF:1.000 Freq:0Hz Lamp Flux:4777x1 lm		
NAME: VT-ST42	TYPE: SOLAR STREETLIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: V-TAC	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:



## BUG REPORT

Test:U:0V I:0A P:0W PF:1.000 Freq:0Hz Lamp Flux:4777x1 lm		
NAME: VT-ST42	TYPE: SOLAR STREETLIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: V-TAC	SUR.:	Shielding Angle:

## IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	65.477	12.1
FM - Front-Medium(30-60)	177.3	32.9
FH - Front-High(60-80)	62.861	11.7
FVH - Front-Very High(80-90)	1.7807	0.3
Total Forward Light	310.4	57.5

BL - Back-Low(0-30)	43.881	8.1
BM - Back-Medium(30-60)	135.74	25.2
BH - Back-High(60-80)	46.508	8.6
BVH - Back-Very High(80-90)	1.1726	0.2
Total Back Light	229.07	42.5

UL - Uplight-Low(90-100)	0.37824	0.1
UH - Uplight-High(100-180)	4.3656	0.8
Total Up Light	4.7439	0.9

BUG(Back,Up,Glare) Rating	B0-U1-G0
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	227.3	1.7672	229.07
Street Side	307.42	2.9767	310.4

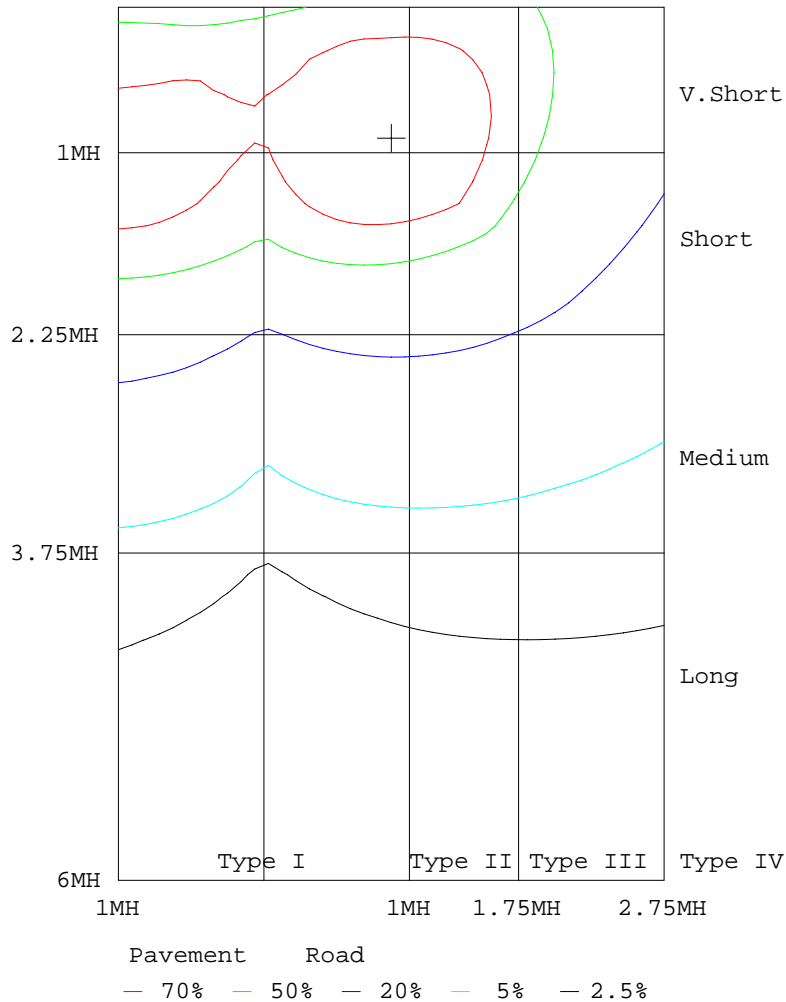
C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:11.100m [K=1.0000]  
Remarks:

ROAD ISOCANDELA REPORT

Test:U:0V I:0A P:0W PF:1.000 Freq:0Hz Lamp Flux:4777x1 lm		
NAME: VT-ST42	TYPE: SOLAR STREETLIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: V-TAC	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-12-21

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd/klm

C(DEG) γ (DEG)	0	45	90	135	180	225	270	315											
0	128	127	128	127	128	127	128	127											
5	125	138	146	143	132	117	111	112											
10	123	148	162	158	135	107	96.7	100											
15	122	156	172	171	139	99.3	85.4	90.2											
20	121	165	171	177	143	92.6	76.4	82.2											
25	122	174	176	189	148	86.6	70.2	75.9											
30	123	183	187	213	154	80.6	65.5	70.6											
35	126	193	191	234	159	73.9	61.3	65.7											
40	128	202	191	248	161	67.0	56.5	61.1											
45	129	213	186	267	162	59.5	50.6	55.9											
50	128	227	175	280	162	51.8	44.1	49.6											
55	125	238	156	269	159	43.9	36.7	42.4											
60	118	228	119	222	148	35.0	29.1	34.8											
65	108	180	61.6	147	124	25.3	21.9	26.6											
70	87.2	97.7	21.3	69.9	83.1	16.3	5.62	18.9											
75	48.1	25.7	7.29	19.8	38.9	9.13	3.44	11.6											
80	17.7	7.59	3.52	6.51	14.3	3.86	2.16	5.23											
85	3.56	3.63	1.95	3.04	3.00	0.49	0.05	0.95											
90	0.87	0.76	0.65	0.52	0.75	0.25	0.09	0.37											
95	0.61	0.18	0.11	0.15	0.41	0.38	0.16	0.40											
100	0.75	0.21	0.11	0.17	0.53	0.60	0.29	0.54											
105	0.84	0.24	0.15	0.20	0.73	0.77	0.45	0.74											
110	0.97	0.30	0.19	0.24	1.00	0.86	0.63	0.95											
115	0.97	0.38	0.23	0.29	0.98	0.97	0.80	1.11											
120	1.08	0.45	0.28	0.34	0.91	1.07	0.96	1.21											
125	1.14	0.50	0.34	0.39	0.93	1.15	1.11	1.29											
130	1.17	0.57	0.38	0.44	0.99	1.20	1.22	1.33											
135	1.20	0.65	0.44	0.48	1.05	1.25	1.30	1.36											
140	1.22	0.72	0.48	0.53	1.07	1.30	1.37	1.40											
145	1.22	0.79	0.54	0.58	1.08	1.34	1.42	1.43											
150	1.22	0.86	0.61	0.63	1.09	1.36	1.45	1.44											
155	1.21	0.93	0.68	0.69	1.10	1.34	1.44	1.40											
160	1.21	1.00	0.77	0.76	1.10	1.33	1.42	1.35											
165	1.20	1.07	0.87	0.84	1.12	1.31	1.37	1.29											
170	1.19	1.13	0.97	0.92	1.14	1.29	1.31	1.22											
175	1.18	1.18	1.06	0.99	1.15	1.26	1.23	1.14											
180	1.16	1.22	1.15	1.07	1.16	1.22	1.15	1.07											

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
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γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:11.100m [K=1.0000]  
 Remarks:

Photometric Data Table [cd/klm]

G/C	0.0	45.0	90.0	135.0	180.0	225.0	270.0	315.0
0.0	127.9	127.1	128.4	127.1	127.9	127.1	128.4	127.1
3.0	126.1	133.8	139.5	136.9	130.1	120.8	117.6	117.7
6.0	124.4	139.9	149.2	145.9	132.3	114.7	107.8	109.7
9.0	123.2	145.8	158.5	154.7	134.4	109.1	99.22	102.4
12.0	122.2	151.2	167.3	163.7	136.7	104.0	91.78	95.89
15.0	121.6	156.3	172.0	170.8	139.0	99.35	85.39	90.15
18.0	121.3	161.3	171.9	174.9	141.4	95.20	79.77	85.08
21.0	121.2	166.4	171.6	178.9	143.9	91.35	75.00	80.86
24.0	121.5	171.9	174.5	185.8	146.6	87.76	71.26	77.07
27.0	122.2	177.4	180.2	197.5	149.8	84.25	68.14	73.71
30.0	123.4	182.9	186.7	213.0	153.6	80.55	65.50	70.59
33.0	125.0	188.7	190.2	227.5	157.4	76.63	63.06	67.62
36.0	126.4	194.7	191.1	237.2	160.1	72.54	60.40	64.84
39.0	127.4	200.4	191.3	245.2	161.1	68.36	57.50	62.05
42.0	128.2	205.9	189.8	255.6	161.7	64.05	54.25	59.15
45.0	128.8	213.0	186.0	267.5	162.3	59.52	50.64	55.92
48.0	128.5	221.1	179.8	276.9	162.3	54.91	46.83	52.10
51.0	127.7	229.4	171.7	279.9	161.6	50.32	42.76	48.30
54.0	126.3	236.1	160.6	273.8	159.7	45.58	38.25	44.09
57.0	122.7	237.5	144.2	254.8	155.0	40.37	33.61	39.24
60.0	118.3	227.6	119.3	222.4	147.6	35.05	29.14	34.81
63.0	113.1	204.3	85.62	179.3	135.2	29.33	24.80	30.05
66.0	105.0	166.0	50.74	131.4	117.1	23.31	19.93	25.00
69.0	92.86	115.5	26.36	84.76	92.52	17.87	7.190	20.41
72.0	73.02	62.28	14.57	44.67	64.38	13.13	4.276	15.89
75.0	48.07	25.72	7.292	19.84	38.95	9.133	3.442	11.65
78.0	27.85	11.04	4.460	9.335	22.22	5.779	2.905	7.834
81.0	12.45	6.516	3.176	5.619	10.64	2.918	1.673	3.943
84.0	4.726	4.259	2.218	3.600	3.971	0.6500	0.0453	1.143
87.0	2.096	2.411	1.399	1.883	1.710	0.4064	0.0586	0.7114
90.0	0.8657	0.7640	0.6548	0.5240	0.7460	0.2450	0.0853	0.3734
93.0	0.6206	0.2021	0.1566	0.1781	0.4587	0.3072	0.1253	0.3579
96.0	0.6358	0.1797	0.1039	0.1491	0.4301	0.4281	0.1826	0.4256
99.0	0.7157	0.1997	0.1038	0.1637	0.5021	0.5572	0.2598	0.5108
102.0	0.7969	0.2277	0.1224	0.1797	0.6019	0.6957	0.3491	0.6132
105.0	0.8411	0.2396	0.1450	0.1984	0.7269	0.7690	0.4542	0.7423
108.0	0.9206	0.2743	0.1689	0.2223	0.9045	0.8196	0.5567	0.8673
111.0	0.9413	0.3195	0.1942	0.2476	1.009	0.8862	0.6631	0.9806
114.0	0.9395	0.3661	0.2235	0.2796	0.9755	0.9540	0.7670	1.082
117.0	1.014	0.4087	0.2514	0.3102	1.006	1.014	0.8681	1.158
120.0	1.082	0.4459	0.2833	0.3395	0.9143	1.066	0.9625	1.212
123.0	1.142	0.4765	0.3127	0.3701	0.9170	1.119	1.050	1.265
126.0	1.138	0.5152	0.3446	0.4033	0.9411	1.158	1.130	1.308
129.0	1.162	0.5591	0.3738	0.4313	0.9810	1.194	1.198	1.328
132.0	1.187	0.6030	0.4032	0.4592	1.018	1.226	1.252	1.339
135.0	1.204	0.6482	0.4350	0.4845	1.046	1.247	1.299	1.357
138.0	1.214	0.6868	0.4617	0.5111	1.061	1.276	1.344	1.384
141.0	1.224	0.7295	0.4896	0.5378	1.070	1.309	1.380	1.408
144.0	1.224	0.7707	0.5255	0.5670	1.081	1.335	1.412	1.427
147.0	1.223	0.8120	0.5641	0.5990	1.087	1.352	1.432	1.439
150.0	1.220	0.8559	0.6067	0.6336	1.091	1.356	1.445	1.439
153.0	1.216	0.8998	0.6506	0.6696	1.095	1.352	1.445	1.419
156.0	1.210	0.9424	0.6985	0.7081	1.097	1.342	1.439	1.393
159.0	1.207	0.9850	0.7491	0.7507	1.102	1.335	1.421	1.366
162.0	1.207	1.029	0.8063	0.7960	1.110	1.327	1.397	1.330
165.0	1.203	1.071	0.8661	0.8425	1.121	1.315	1.372	1.288
168.0	1.198	1.109	0.9247	0.8891	1.131	1.300	1.331	1.250
171.0	1.190	1.138	0.9860	0.9357	1.138	1.280	1.288	1.206
174.0	1.181	1.167	1.041	0.9770	1.145	1.263	1.245	1.161
177.0	1.173	1.194	1.098	1.020	1.155	1.244	1.195	1.113
180.0	1.163	1.223	1.151	1.070	1.164	1.222	1.154	1.070

C Range: 0 - 360DEG  
 C Interval: 45.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-12-21

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 11.100m [K=1.0000]  
 Remarks: