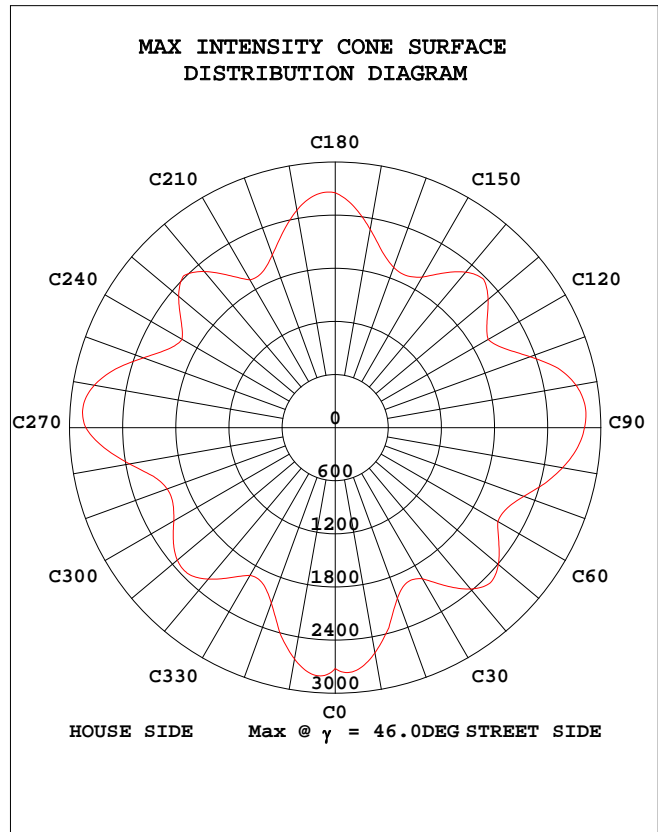
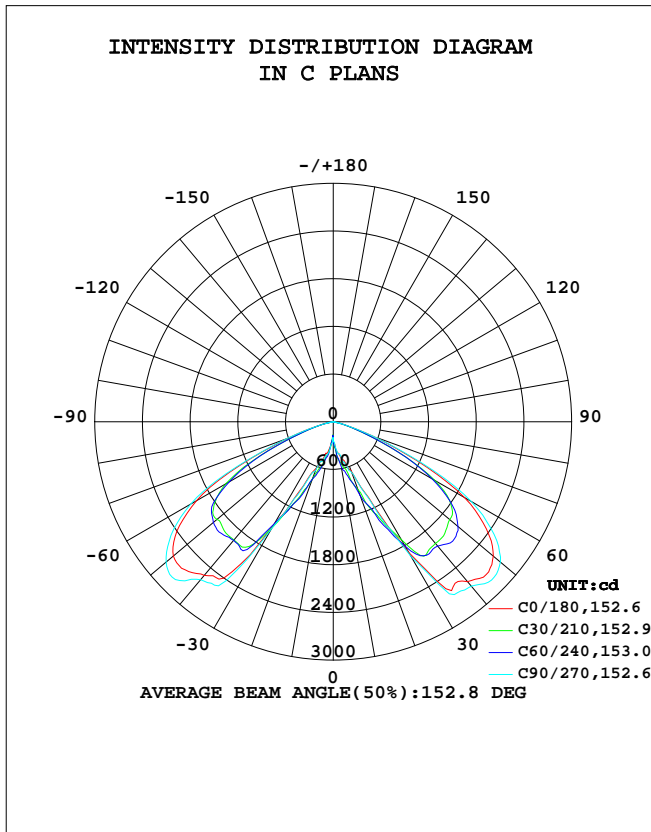


## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:221.05V I:0.2728A P:58.920W PF:0.9770 Freq:50.01Hz Lamp Flux:7029.82x1 lm		
NAME: T-70N-60W-32	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.31 lm/W			
MODEL	5050 30K RA70 T1	I <sub>max</sub> (cd)	2817	η street_up(%)	0.3
NOMINAL POWER(W)	60	LOR(%)	100.0	η street_down(%)	49.8
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	7030	η house_up(%)	0.3
NOMINAL FLUX(lm)	7029.82	MAXIMUM @(C,γ )	270,46.0	η house_down(%)	49.7
LAMPS INSIDE	1	η up(%)	0.5	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	230.0	η down(%)	99.5	SLI	16.600



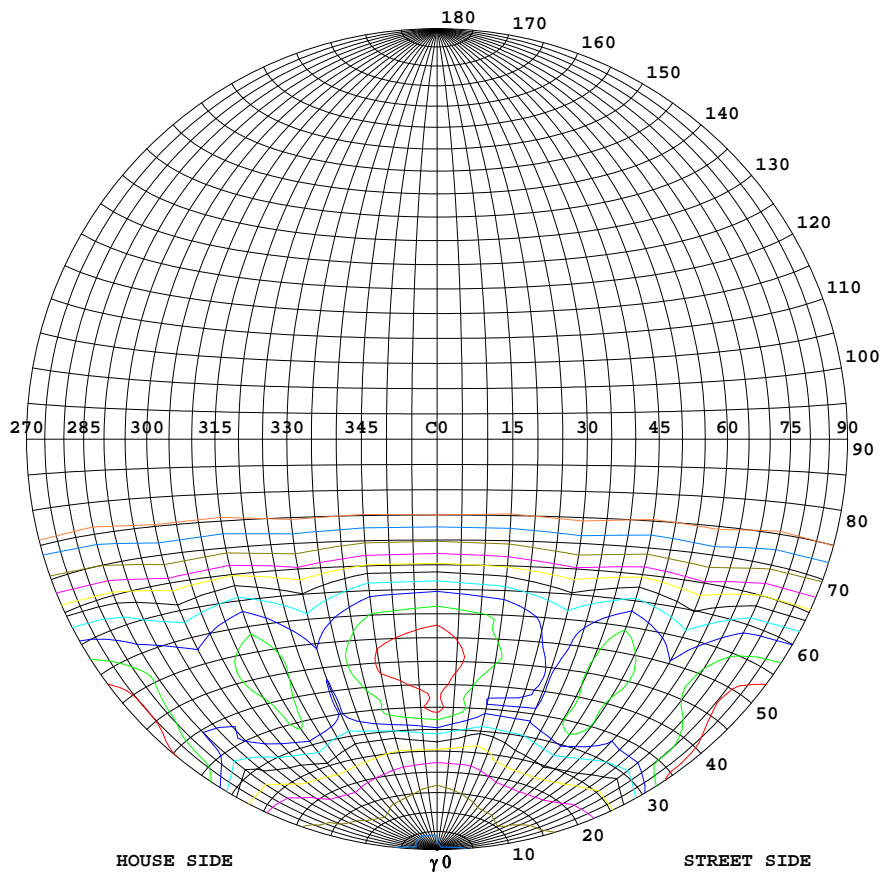
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-05-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:26.000m [K=1.0000]  
Remarks: T-70N-60W-32(5050 30K RA70 T1)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## STREETLIGHT ISOCANDELA DIAGRAM

Test:U:221.05V I:0.2728A P:58.920W PF:0.9770 Freq:50.01Hz Lamp Flux:7029.82x1 lm		
NAME: T-70N-60W-32	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



### Classification:

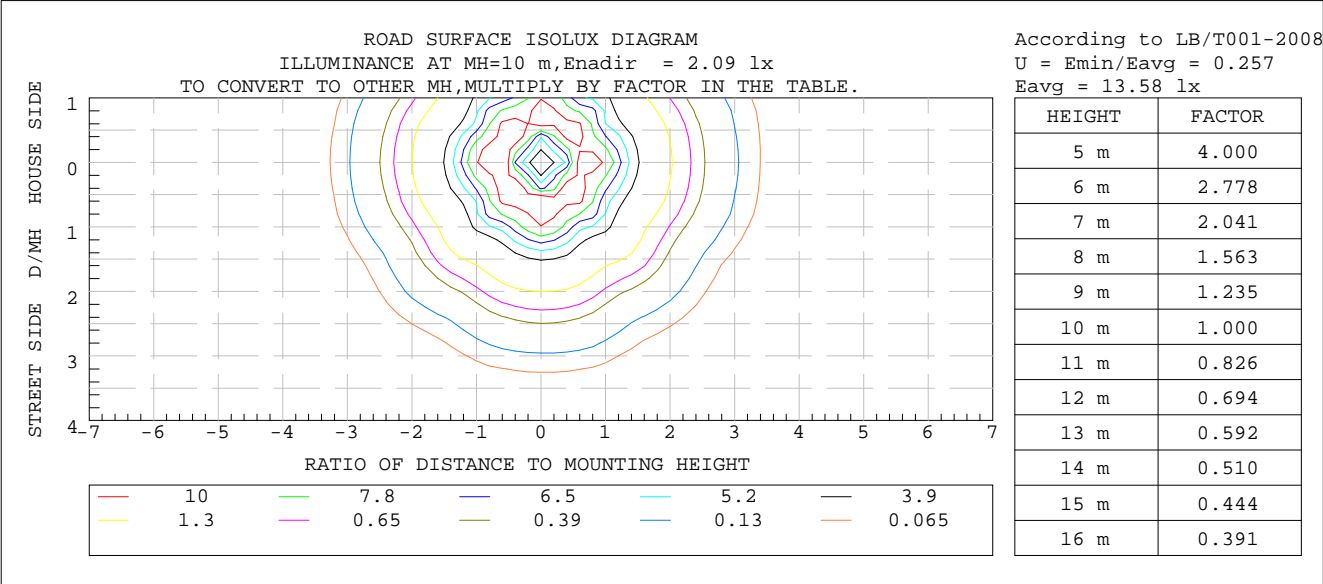
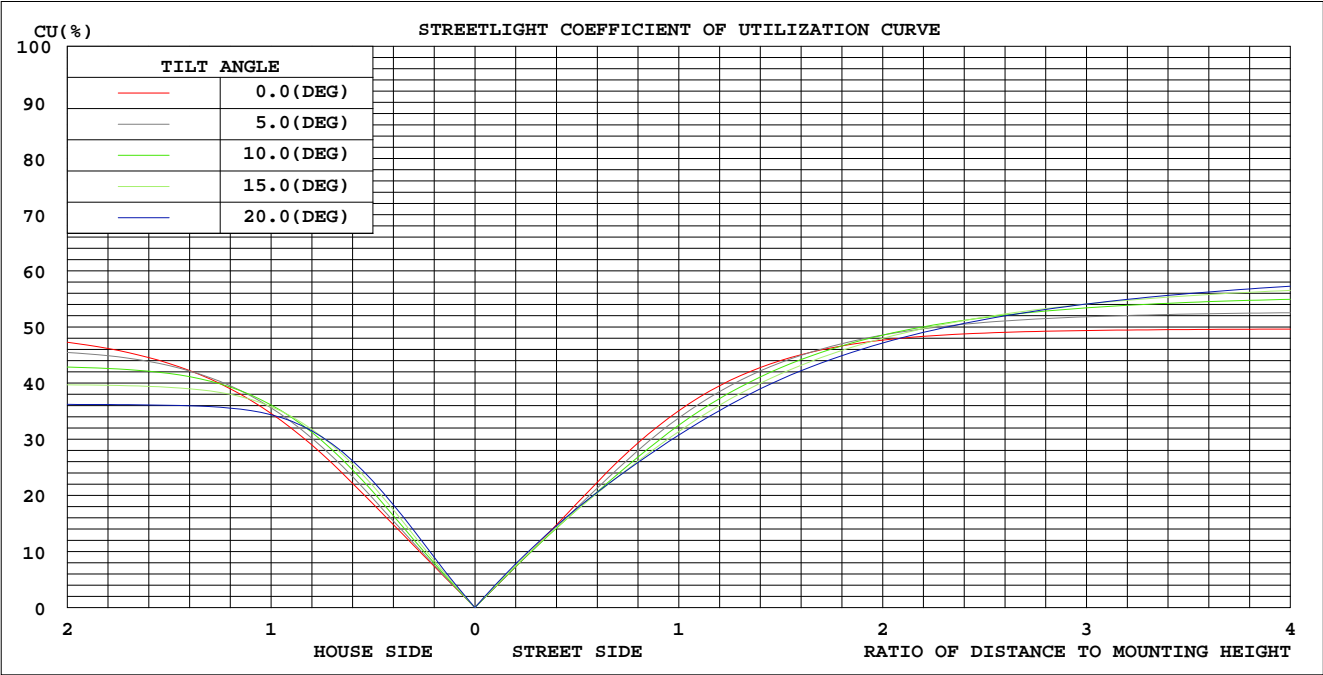
IES:Type V - Very Short  
 CIE:Average - Short  
 IES:Cut-off  
 CIE:Full cut-off  
 Max.At80:10.96cd/klm  
 Max.At90:1.658cd/klm  
 Max.80-90:10.96cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2817
90%	2535
80%	2254
70%	1972
60%	1690
50%	1409
40%	1127
30%	845
20%	563
10%	282
5%	141

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-05-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: T-70N-60W-32(5050 30K RA70 T1)

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-05-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:26.000m [K=1.0000]  
Remarks: T-70N-60W-32(5050 30K RA70 T1)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ZONAL FLUX DIAGRAM

Test:U:221.05V I:0.2728A P:58.920W PF:0.9770 Freq:50.01Hz Lamp Flux:7029.82x1 lm		
NAME: T-70N-60W-32	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	412.1	519.6	409.5	475.4	386.6	430.6	413.0	495.0	0- 10	33.81	33.81	0.48,0.48
20	655.1	1009	680.0	825.5	625.3	794.7	654.1	915.0	10- 20	172.0	205.8	2.93,2.93
30	1896	2054	1958	1792	1489	1705	1559	1829	20- 30	537.2	743.0	10.6,10.6
40	2627	2407	2701	2301	2524	2331	2595	2278	30- 40	1289	2033	28.9,28.9
50	2629	2444	2746	2372	2627	2409	2745	2316	40- 50	1764	3796	54,54
60	1906	1780	2003	1807	1983	1904	2070	1724	50- 60	1865	5662	80.5,80.5
70	527.7	465.4	537.2	486.7	603.0	568.4	627.5	462.8	60- 70	1096	6758	96.1,96.1
80	39.76	52.31	35.78	59.18	50.26	73.20	47.91	55.20	70- 80	213.6	6972	99.2,99.2
90	2.534	2.446	2.450	2.287	2.744	3.099	2.668	2.963	80- 90	20.65	6992	99.5,99.5
100	5.646	2.446	5.708	2.287	6.389	3.369	5.231	3.067	90-100	7.799	7000	99.6,99.6
110	6.334	3.858	6.806	3.638	7.022	4.348	6.311	4.056	100-110	7.008	7007	99.7,99.7
120	7.127	4.728	7.513	4.521	7.870	5.163	7.733	4.730	110-120	5.956	7013	99.8,99.8
130	7.974	5.108	7.211	5.301	8.021	5.869	8.153	5.406	120-130	5.921	7019	99.8,99.8
140	7.336	5.161	6.973	5.047	8.076	5.050	7.345	5.093	130-140	5.207	7024	99.9,99.9
150	4.447	3.370	3.759	3.225	4.846	3.150	3.865	2.911	140-150	3.453	7028	100,100
160	2.376	2.283	2.506	2.235	2.165	2.228	2.341	2.131	150-160	1.348	7029	100,100
170	2.059	2.065	2.232	1.975	2.165	2.226	2.178	2.131	160-170	0.6141	7030	100,100
180	2.059	2.065	2.232	1.975	2.165	2.120	2.233	2.079	170-180	0.2021	7030	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

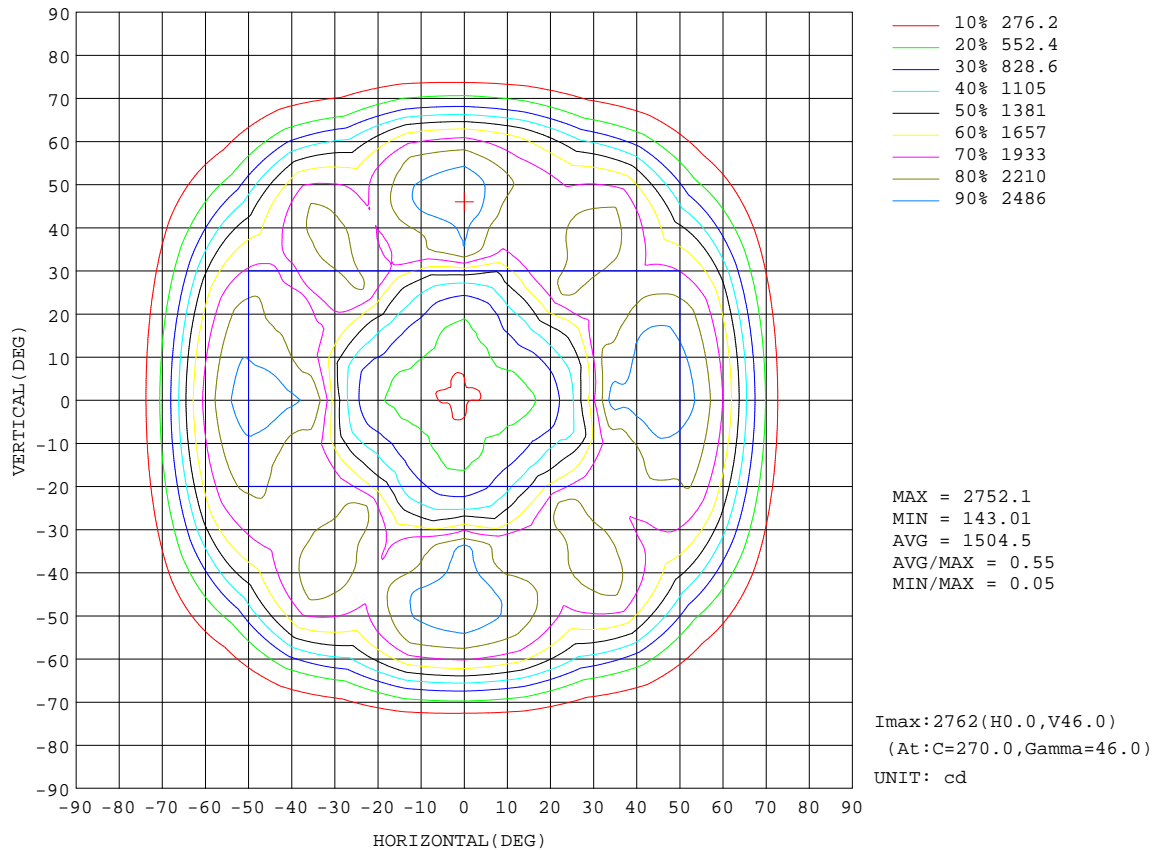
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-05-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: T-70N-60W-32(5050 30K RA70 T1)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

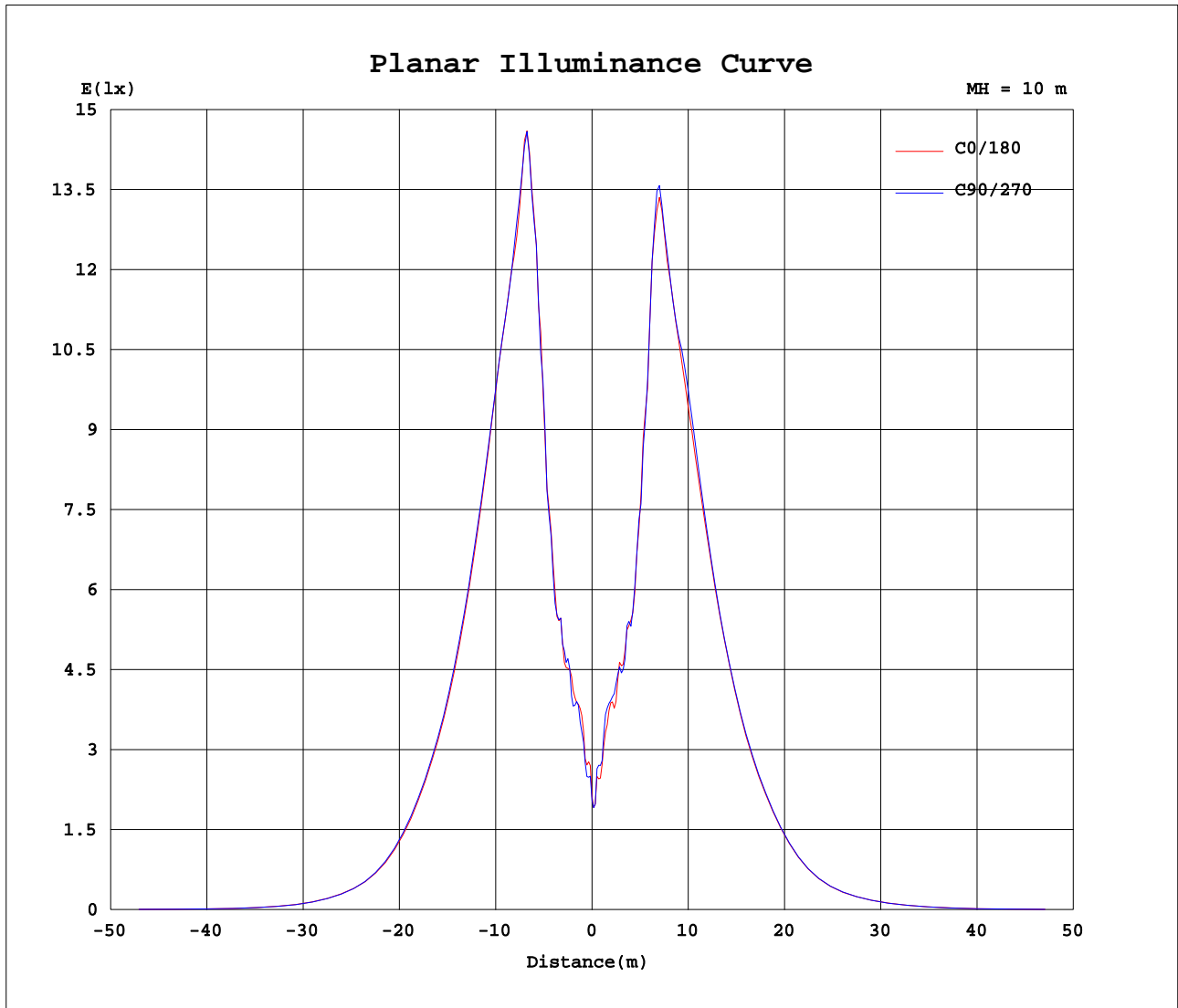
Test:U:221.05V I:0.2728A P:58.920W PF:0.9770 Freq:50.01Hz Lamp Flux:7029.82x1 lm		
NAME: T-70N-60W-32	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 13.9DEG  
Operators: CS01  
Test Date: 2023-05-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity: 38.0%  
Test Distance: 26.000m [K=1.0000]  
Remarks: T-70N-60W-32(5050 30K RA70 T1)

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 13.9DEG  
Operators: CS01  
Test Date: 2023-05-04

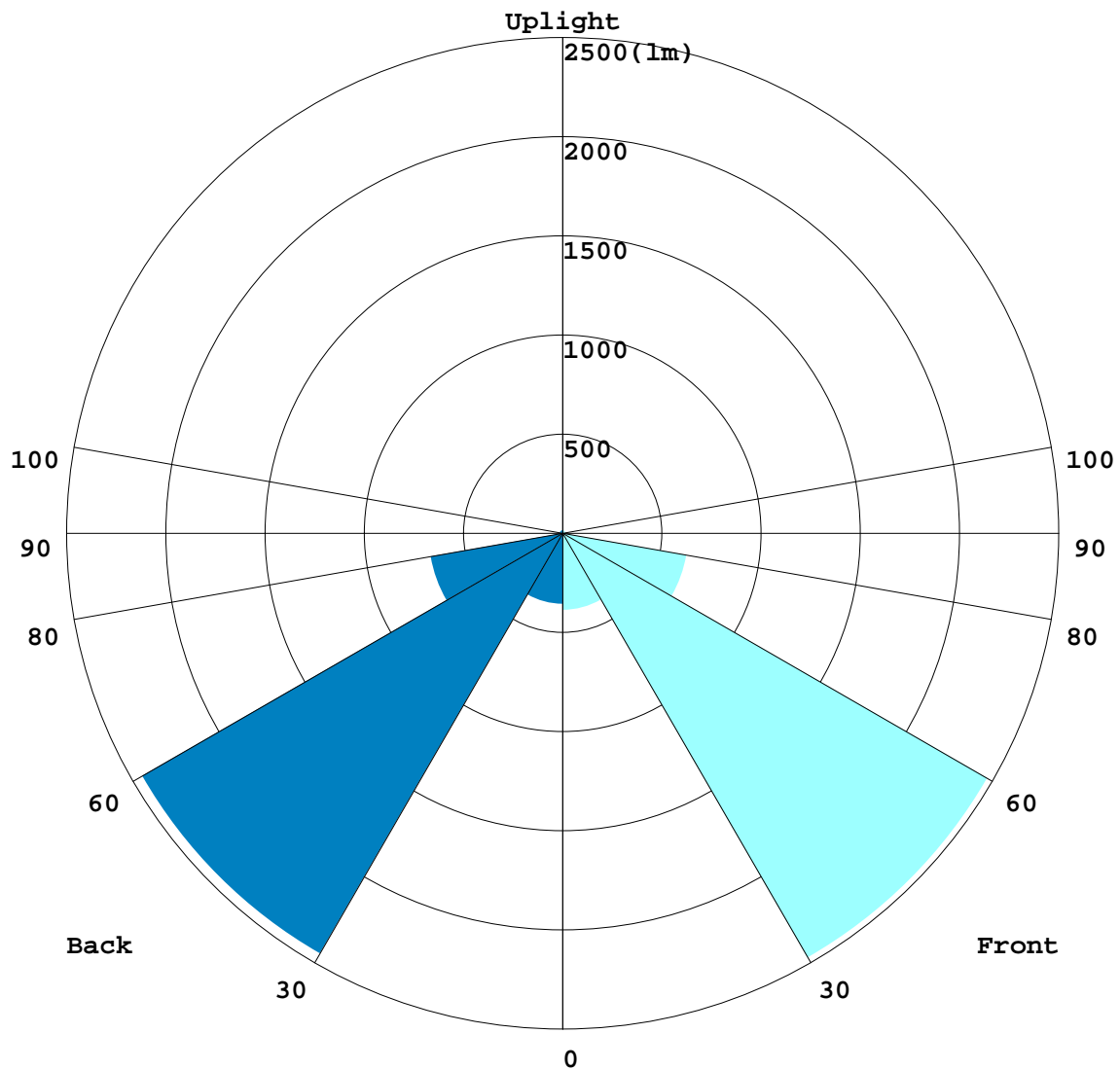
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity: 38.0%  
Test Distance: 26.000m [K=1.0000]  
Remarks: T-70N-60W-32(5050 30K RA70 T1)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LCS REPORT

Test:U:221.05V I:0.2728A P:58.920W PF:0.9770 Freq:50.01Hz Lamp Flux:7029.82x1 lm		
NAME: T-70N-60W-32	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

## LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-05-04

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:26.000m [K=1.0000]  
Remarks: T-70N-60W-32(5050 30K RA70 T1)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## BUG REPORT

Test:U:221.05V I:0.2728A P:58.920W PF:0.9770 Freq:50.01Hz Lamp Flux:7029.82x1 lm		
NAME: T-70N-60W-32	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	386.93	5.5
FM - Front-Medium(30-60)	2471.3	35.2
FH - Front-High(60-80)	634.01	9.0
FVH - Front-Very High(80-90)	9.7003	0.1
Total Forward Light	3520.9	50.1

BL - Back-Low(0-30)	356.09	5.1
BM - Back-Medium(30-60)	2447.4	34.8
BH - Back-High(60-80)	675.89	9.6
BVH - Back-Very High(80-90)	10.948	0.2
Total Back Light	3509	49.9

UL - Uplight-Low(90-100)	7.7992	0.1
UH - Uplight-High(100-180)	29.709	0.4
Total Up Light	37.508	0.5

BUG(Back,Up,Glare) Rating	B2-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3490.4	18.569	3509
Street Side	3501.9	18.939	3520.9

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-05-04

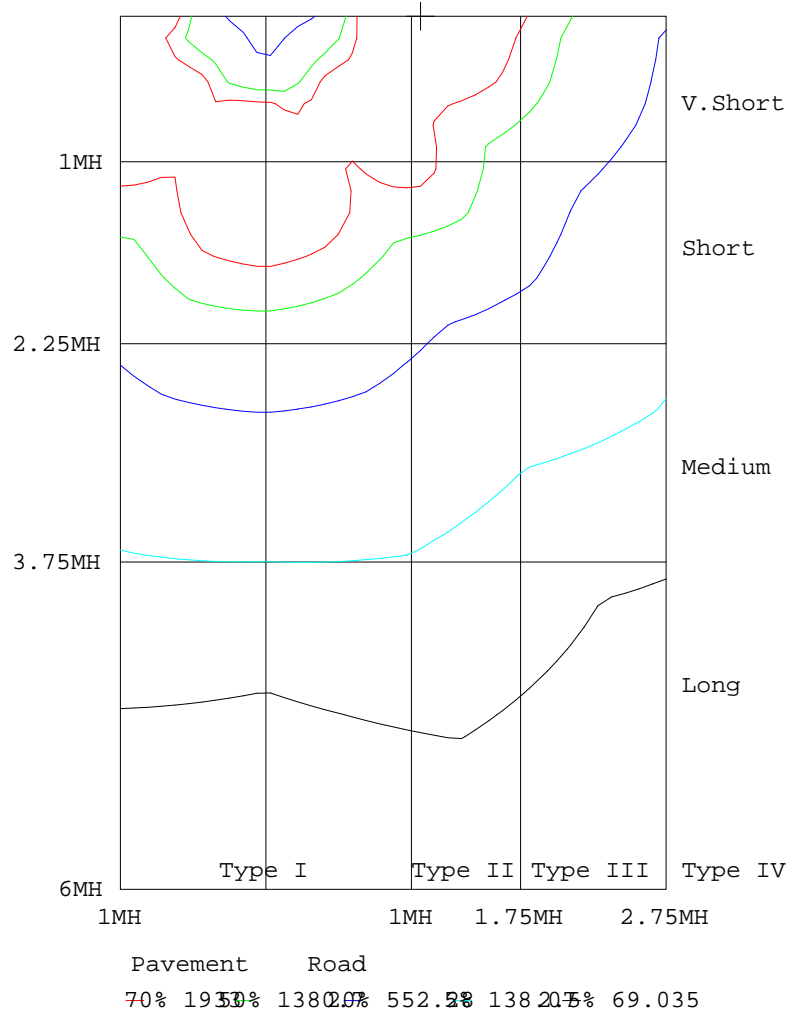
γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: T-70N-60W-32(5050 30K RA70 T1)



ROAD ISOCANDELA REPORT

Test:U:221.05V I:0.2728A P:58.920W PF:0.9770 Freq:50.01Hz Lamp Flux:7029.82x1 lm		
NAME: T-70N-60W-32	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-05-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:26.000m [K=1.0000]  
Remarks: T-70N-60W-32(5050 30K RA70 T1)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.05V I:0.2728A P:58.920W PF:0.9770 Freq:50.01Hz Lamp Flux:7029.82x1 lm																		
NAME: T-70N-60W-32									TYPE:					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: KLED									SUR.:					Shielding Angle:				

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209	209
5	335	352	360	320	347	384	324	297	266	314	299	285	247	231	283	302	259	231	279
10	412	473	521	520	568	462	409	425	429	475	436	406	387	410	418	431	450	403	413
15	498	576	624	731	704	639	525	541	578	631	614	509	473	465	586	592	602	488	499
20	655	795	905	1009	980	794	680	682	742	825	829	673	625	632	757	795	765	688	654
25	1049	1041	1286	1464	1371	1116	1075	1032	997	1235	1150	924	889	863	1093	1148	1108	935	918
30	1896	1529	1711	2054	1802	1601	1958	1541	1471	1792	1567	1320	1489	1360	1534	1705	1482	1415	1559
35	2595	2040	2041	2416	2050	2131	2655	2206	1826	2276	1937	1856	2403	1932	1929	2288	1982	2190	2519
40	2627	2115	1999	2407	2045	2201	2701	2305	1900	2301	1935	1865	2524	2104	1943	2331	1949	2294	2595
45	2722	2313	1987	2473	2126	2412	2816	2553	1996	2364	1976	2024	2635	2286	1939	2412	1990	2541	2808
50	2629	2287	1914	2444	2050	2479	2746	2579	1946	2372	1939	2153	2627	2367	1911	2409	1970	2573	2745
55	2353	2258	1808	2248	1828	2281	2472	2401	1772	2215	1821	2074	2404	2328	1832	2268	1867	2375	2494
60	1906	1824	1473	1780	1433	1880	2003	1971	1415	1807	1475	1774	1983	1931	1558	1904	1508	2026	2070
65	1162	1119	895	1077	897	1161	1227	1227	890	1155	935	1178	1286	1296	1025	1255	1005	1362	1340
70	528	513	383	465	387	512	537	544	392	487	410	554	603	602	469	568	466	631	627
75	139	153	122	153	127	160	140	167	134	164	140	186	191	225	175	207	174	209	185
80	39.8	57.9	49.4	52.3	50.8	50.0	35.8	57.0	52.7	59.2	56.7	62.9	50.3	77.0	64.8	73.2	63.3	63.1	47.9
85	7.01	14.9	14.2	6.02	12.3	10.20	4.16	10.03	12.1	7.44	16.7	15.0	9.67	21.1	20.4	10.8	15.9	13.1	6.54
90	2.53	8.77	10.3	2.45	10.22	8.65	2.45	8.54	10.1	2.29	10.3	8.61	2.74	9.92	11.7	3.10	11.2	9.20	2.67
95	3.54	8.99	10.8	2.45	10.4	8.82	3.70	8.97	10.6	2.29	10.9	9.06	4.86	10.02	11.8	3.37	10.8	8.92	3.98
100	5.65	8.83	10.3	2.45	9.06	7.50	5.71	7.56	9.00	2.29	10.4	8.77	6.39	9.09	10.7	3.37	9.17	7.50	5.23
105	6.12	7.47	8.54	3.04	8.79	7.72	6.86	7.56	8.41	2.76	8.47	7.21	6.70	7.29	8.25	3.64	8.35	7.45	6.53
110	6.33	7.08	7.61	3.86	7.48	7.07	6.81	7.24	7.20	3.64	7.19	6.71	7.02	6.92	6.83	4.35	7.02	6.52	6.31
115	6.55	6.97	6.89	4.35	5.99	5.26	5.61	5.11	5.61	3.85	6.51	6.46	7.40	6.92	6.51	4.89	5.94	4.94	5.07
120	7.13	7.13	6.95	4.73	6.42	5.75	7.51	5.71	6.24	4.52	6.41	6.76	7.87	7.41	5.96	5.16	7.09	5.92	7.73
125	7.97	7.30	6.57	4.95	6.87	6.62	8.22	6.58	6.98	4.78	6.31	7.06	8.08	7.46	5.96	5.60	7.64	6.41	8.33
130	7.97	7.51	5.80	5.11	6.87	6.63	7.21	6.53	7.30	5.30	5.80	7.26	8.02	7.30	5.96	5.87	8.13	6.85	8.15
135	6.71	6.75	6.40	5.11	6.87	6.68	7.19	6.74	7.30	5.35	5.95	6.51	7.29	7.14	6.74	5.71	8.13	8.17	7.51
140	7.34	7.57	7.00	5.16	6.15	6.74	6.97	7.29	5.94	5.05	6.77	7.55	8.08	8.33	6.94	5.05	7.08	8.21	7.35
145	7.29	7.26	6.14	4.35	4.40	4.84	5.12	5.00	4.02	4.01	5.91	7.16	7.33	7.24	5.69	3.81	4.61	6.34	5.55
150	4.45	4.81	3.95	3.37	3.46	3.73	3.76	3.59	3.34	3.23	3.70	4.61	4.85	4.74	3.88	3.15	3.41	3.83	3.86
155	2.70	2.78	2.90	2.61	2.80	2.85	3.05	2.94	2.81	2.60	2.57	2.81	2.74	2.94	2.73	2.77	3.02	3.01	3.05
160	2.38	2.34	2.35	2.28	2.31	2.41	2.51	2.50	2.44	2.24	2.21	2.30	2.16	2.23	2.24	2.23	2.31	2.35	2.34
165	2.06	2.12	2.13	2.07	2.20	2.19	2.23	2.28	2.17	1.98	1.85	2.00	2.16	2.23	2.08	2.23	2.20	2.30	2.18
170	2.06	2.12	2.13	2.07	2.20	2.35	2.23	2.28	2.17	1.98	1.85	2.10	2.16	2.23	2.08	2.23	2.20	2.30	2.18
175	2.06	2.07	2.13	2.07	2.20	2.30	2.23	2.23	2.12	1.98	1.85	2.00	2.16	2.12	2.08	2.07	2.14	2.24	2.18
180	2.06	2.07	2.24	2.07	2.20	2.35	2.23	2.18	2.12	1.98	1.85	2.00	2.16	2.12	2.08	2.12	2.09	2.19	2.23

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-05-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:26.000m [K=1.0000]  
Remarks: T-70N-60W-32(5050 30K RA70 T1)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.05V I:0.2728A P:58.920W PF:0.9770 Freq:50.01Hz Lamp Flux:7029.82x1 lm		
NAME: T-70N-60W-32	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	209	209	209	209	209													
5	325	297	315	304	325													
10	416	507	495	430	381													
15	582	641	646	642	532													
20	707	887	915	814	681													
25	1014	1242	1331	1182	1005													
30	1337	1683	1829	1470	1582													
35	1924	2001	2237	1882	2161													
40	2016	1989	2278	1882	2281													
45	2107	2105	2334	1915	2412													
50	2236	2057	2316	1868	2329													
55	2094	1844	2129	1677	2138													
60	1809	1492	1724	1361	1741													
65	1229	940	1072	847	1088													
70	566	414	463	387	487													
75	188	148	160	122	138													
80	64.1	54.9	55.2	48.5	46.6													
85	12.8	12.0	8.64	13.4	11.1													
90	7.29	7.99	2.96	7.75	6.71													
95	7.28	7.97	3.17	7.70	6.71													
100	6.42	6.35	3.07	6.87	6.21													
105	6.42	6.29	3.38	6.20	5.56													
110	6.41	5.71	4.06	6.10	5.71													
115	4.90	5.24	4.68	6.10	6.06													
120	5.82	5.98	4.73	6.15	6.66													
125	6.64	6.61	4.94	5.69	6.76													
130	7.12	6.61	5.41	5.74	6.71													
135	7.40	6.66	5.46	6.98	6.81													
140	7.40	5.71	5.09	6.97	7.56													
145	5.75	3.97	3.90	5.63	6.46													
150	3.53	3.12	2.91	3.58	4.20													
155	3.04	2.86	2.60	2.36	2.45													
160	2.39	2.22	2.13	2.10	1.95													
165	2.23	2.17	2.13	2.10	1.85													
170	2.23	2.17	2.13	2.10	1.80													
175	2.23	2.17	2.08	2.00	1.80													
180	2.23	2.12	2.08	1.95	1.80													

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-05-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
γ Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity:38.0%  
Test Distance:26.000m [K=1.0000]  
Remarks: T-70N-60W-32(5050 30K RA70 T1)