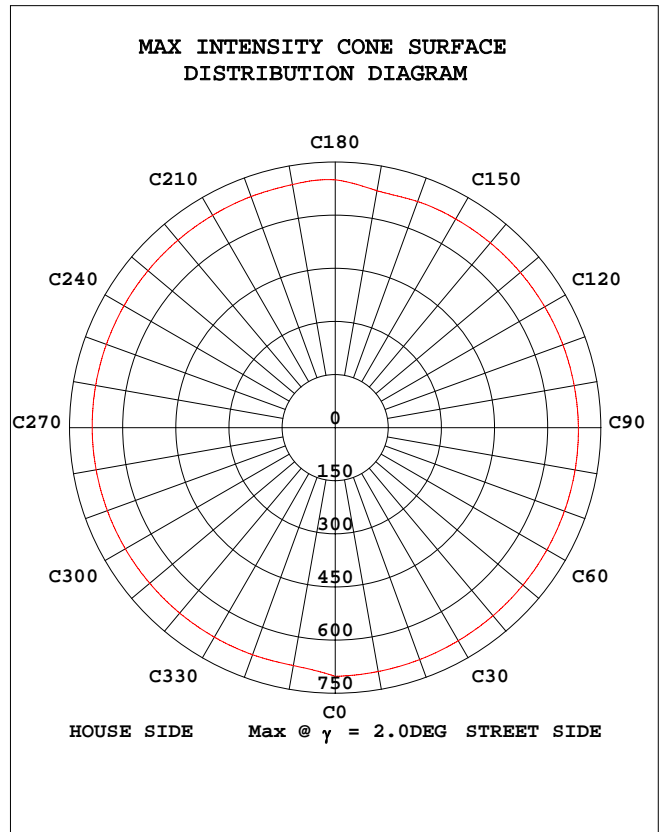
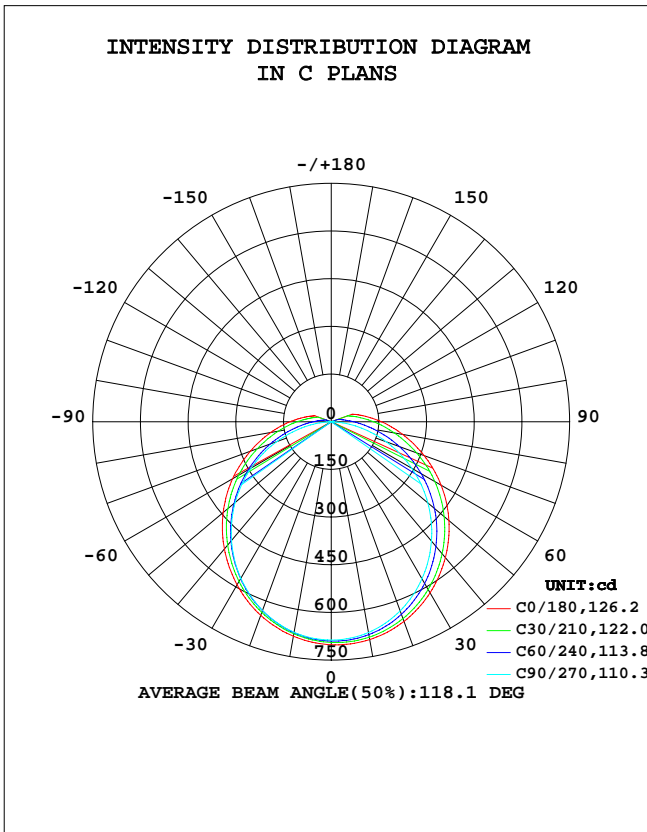


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:229.59V I:0.0863A P:19.034W PF:0.9602 Freq:49.99Hz Lamp Flux:2312.35x1 lm		
NAME: F1139_LED PRO TRI-PROOF LIGHT	TYPE:	WEIGHT:180G
SPEC.:	DIM.:	SERIAL No.:1
MFR.: FILUX	SUR.:	Shielding Angle:270`

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.48 lm/W			
MODEL	F1139_20W	Imax(cd)	702.3	$\eta$ street_up(%)	2.7
NOMINAL POWER(W)	20	LOR(%)	100.0	$\eta$ street_down(%)	47.4
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	2312	$\eta$ house_up(%)	2.6
NOMINAL FLUX(lm)	2312.35	MAXIMUM @(C, $\gamma$ )	0,2.0	$\eta$ house_down(%)	47.3
LAMPS INSIDE	1	$\eta$ up(%)	5.2	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	$\eta$ down(%)	94.8	SLI	18.221

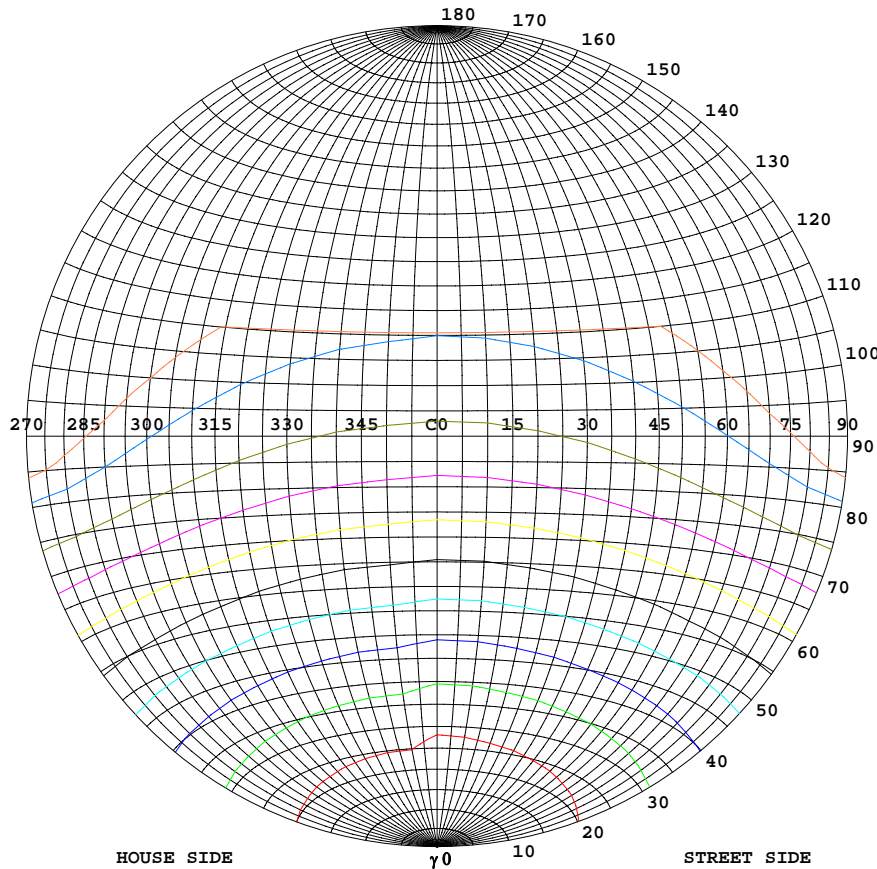


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: 1  
 Test Date: 2019-08-23

$\gamma$  Range: 0 - 110DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
 Humidity: 65.0%  
 Test Distance: 9.840m [K=1.0000]  
 Remarks:

**STREETLIGHT ISOCANDELA DIAGRAM**

Test:U:229.59V I:0.0863A P:19.034W PF:0.9602 Freq:49.99Hz Lamp Flux:2312.35x1 lm		
NAME: F1139_LED PRO TRI-PROOF LIGHT	TYPE:	WEIGHT:180G
SPEC.:	DIM.:	SERIAL No.:1
MFR.: FILUX	SUR.:	Shielding Angle:270`



**Classification:**

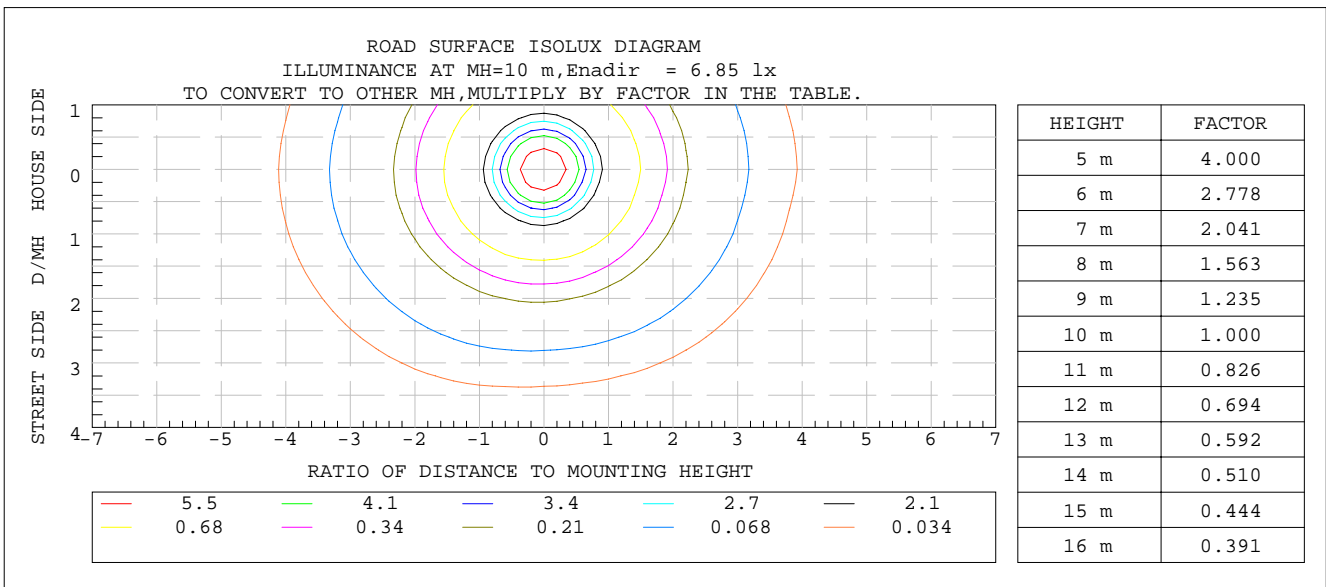
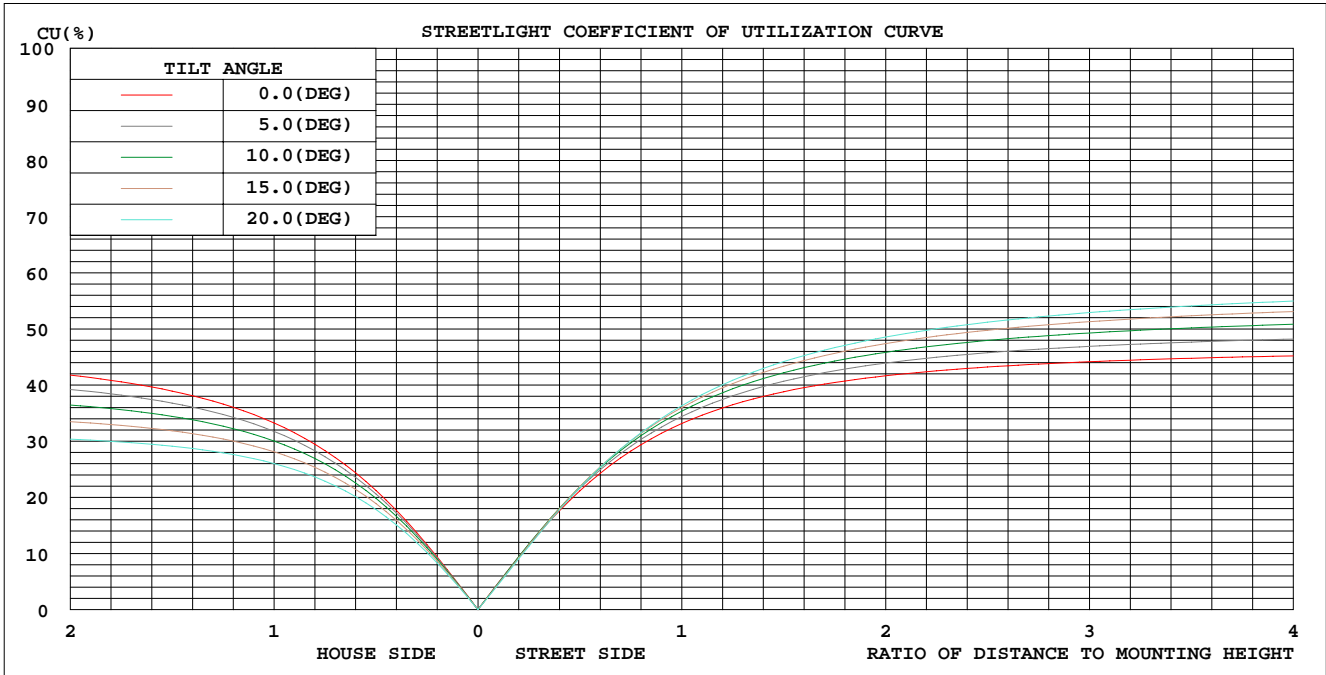
IES:Type VS - Very Short  
 CIE:Narrow - Short  
 IES:None cut-off  
 CIE:Non-cut-off  
 Max.At80:98.41cd/klm  
 Max.At90:68.35cd/klm  
 Max.80-90:98.41cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	702
90%	632
80%	562
70%	492
60%	421
50%	351
40%	281
30%	211
20%	140
10%	70
5%	35

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:1  
 Test Date:2019-08-23

γ Range: 0 - 110DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
 Humidity:65.0%  
 Test Distance:9.840m [K=1.0000]  
 Remarks:

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 1  
Test Date: 2019-08-23

$\gamma$  Range: 0 - 110DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
Humidity: 65.0%  
Test Distance: 9.840m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

Test:U:229.59V I:0.0863A P:19.034W PF:0.9602 Freq:49.99Hz Lamp Flux:2312.35x1 lm		
NAME: F1139_LED PRO TRI-PROOF LIGHT	TYPE:	WEIGHT:180G
SPEC.:	DIM.:	SERIAL No.:1
MFR.: FILUX	SUR.:	Shielding Angle:270`

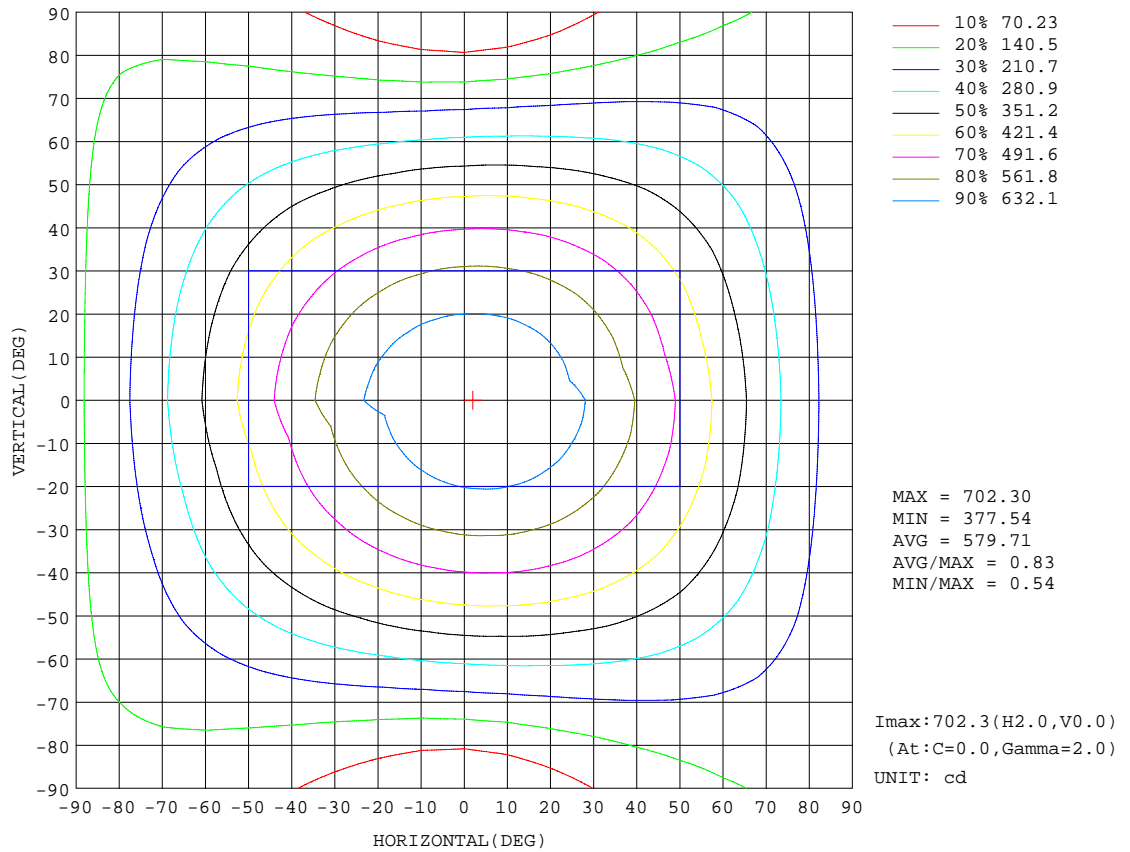
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\$lum, lamp$
10	695.9	684.0	673.2	666.0	685.1	675.1	672.8	675.8	0- 10	65.14	65.14	2.82,2.82
20	668.8	652.2	633.3	625.8	648.3	635.1	631.9	644.6	10- 20	186.6	251.7	10.9,10.9
30	621.6	598.7	570.5	565.2	592.6	574.6	568.9	592.3	20- 30	283.2	534.9	23.1,23.1
40	558.4	527.5	490.3	488.9	522.9	497.9	488.2	522.1	30- 40	343.4	878.3	38,38
50	483.2	443.8	396.7	402.5	443.7	411.1	394.4	439.4	40- 50	362.0	1240	53.6,53.6
60	399.2	352.7	292.7	310.6	358.1	318.3	291.0	349.1	50- 60	339.7	1580	68.3,68.3
70	310.9	258.3	183.6	219.3	270.7	226.2	182.0	255.7	60- 70	282.3	1862	80.5,80.5
80	227.6	171.2	78.03	138.3	192.7	144.0	76.18	168.6	70- 80	203.4	2066	89.3,89.3
90	158.1	104.6	6.696	80.67	130.1	84.50	6.188	102.1	80- 90	125.7	2191	94.8,94.8
100	105.7	62.75	5.599	47.24	85.00	49.17	5.675	60.37	90-100	74.36	2266	98,98
110	69.96	38.34	6.787	28.34	55.05	29.07	5.231	36.24	100-110	44.97	2311	99.9,99.9
120	0	0	0	0	0	0	0	0	110-120	1.713	2312	100,100
130	0	0	0	0	0	0	0	0	120-130	0	2312	100,100
140	0	0	0	0	0	0	0	0	130-140	0	2312	100,100
150	0	0	0	0	0	0	0	0	140-150	0	2312	100,100
160	0	0	0	0	0	0	0	0	150-160	0	2312	100,100
170	0	0	0	0	0	0	0	0	160-170	0	2312	100,100
180	0	0	0	0	0	0	0	0	170-180	0	2312	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:1  
Test Date:2019-08-23

$\gamma$  Range: 0 - 110DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
Humidity:65.0%  
Test Distance:9.840m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

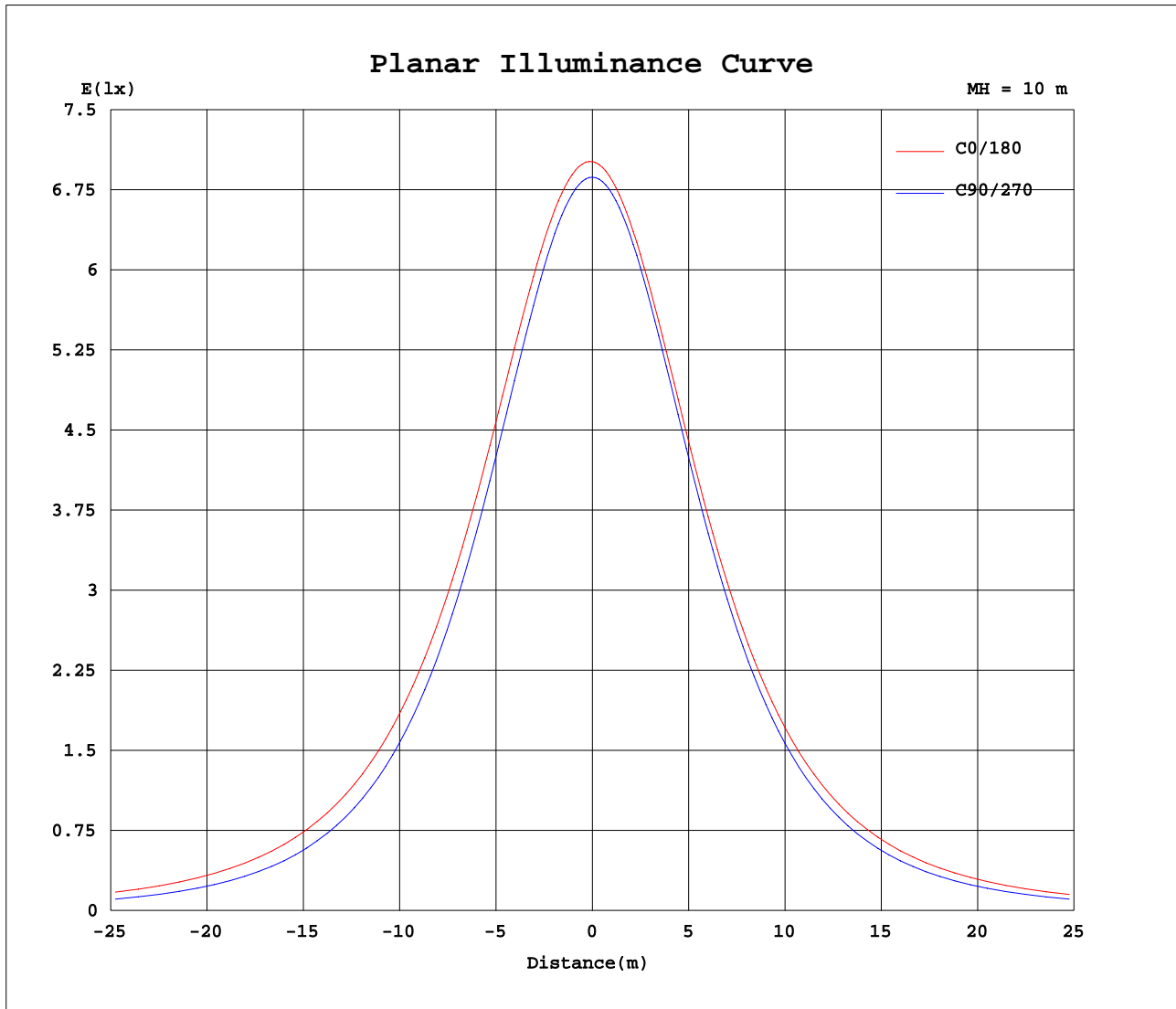
Test:U:229.59V I:0.0863A P:19.034W PF:0.9602 Freq:49.99Hz Lamp Flux:2312.35x1 lm		
NAME: F1139_LED PRO TRI-PROOF LIGHT	TYPE:	WEIGHT:180G
SPEC.:	DIM.:	SERIAL No.:1
MFR.: FILUX	SUR.:	Shielding Angle:270`



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: 1  
 Test Date: 2019-08-23

γ Range: 0 - 110DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
 Humidity: 65.0%  
 Test Distance: 9.840m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



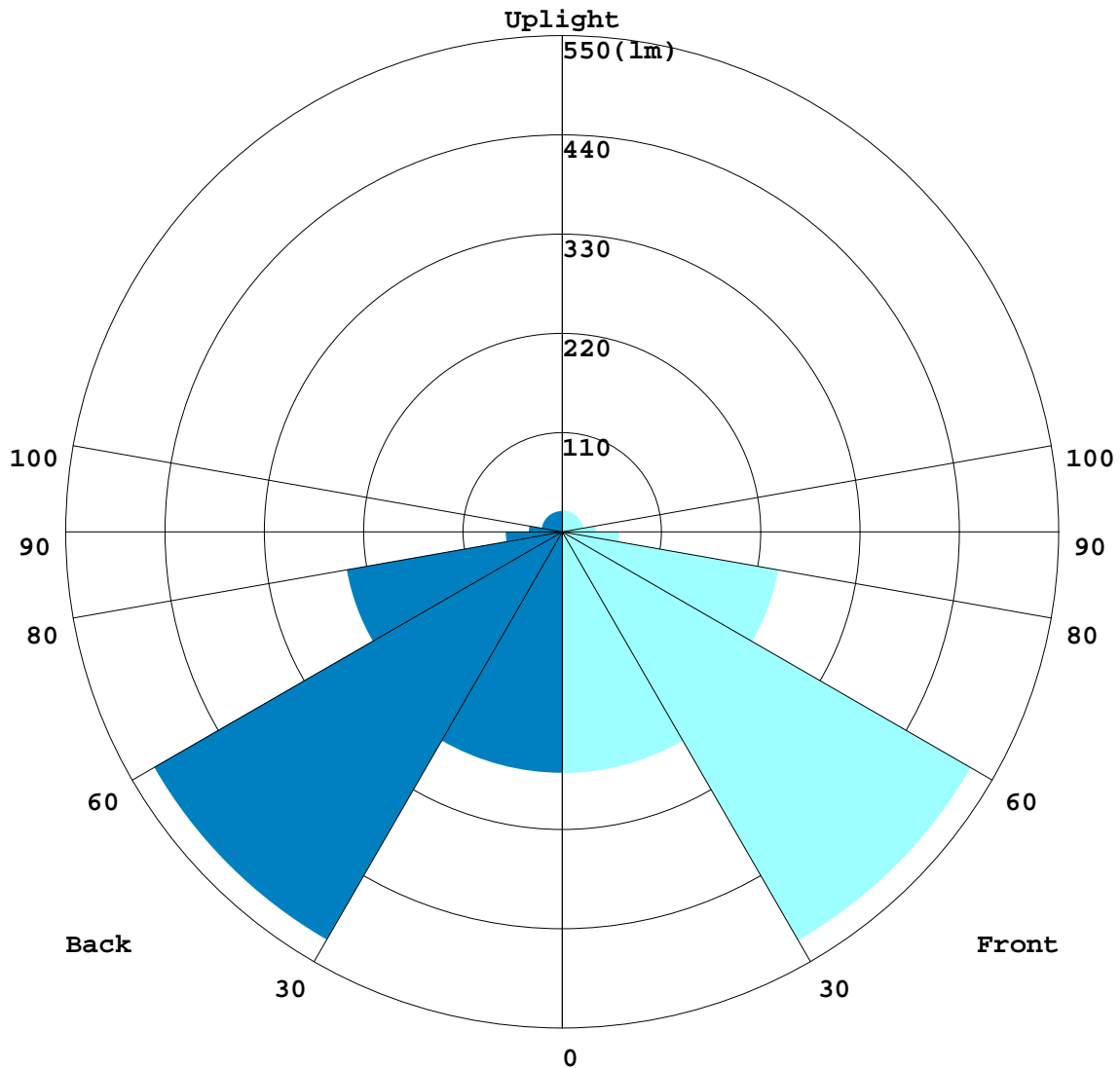
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: 1  
 Test Date: 2019-08-23

$\gamma$  Range: 0 - 110DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
 Humidity: 65.0%  
 Test Distance: 9.840m [K=1.0000]  
 Remarks:

LCS REPORT

Test:U:229.59V I:0.0863A P:19.034W PF:0.9602 Freq:49.99Hz Lamp Flux:2312.35x1 lm		
NAME: F1139_LED PRO TRI-PROOF LIGHT	TYPE:	WEIGHT:180G
SPEC.:	DIM.:	SERIAL No.:1
MFR.: FILUX	SUR.:	Shielding Angle:270`

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:1  
 Test Date:2019-08-23

$\gamma$  Range: 0 - 110DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
 Humidity:65.0%  
 Test Distance:9.840m [K=1.0000]  
 Remarks:

## BUG REPORT

Test:U:229.59V I:0.0863A P:19.034W PF:0.9602 Freq:49.99Hz Lamp Flux:2312.35x1 lm		
NAME: F1139_LED PRO TRI-PROOF LIGHT	TYPE:	WEIGHT:180G
SPEC.:	DIM.:	SERIAL No.:1
MFR.: FILUX	SUR.:	Shielding Angle:270`

## IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	267.57	11.6
FM - Front-Medium(30-60)	523.1	22.6
FH - Front-High(60-80)	243.31	10.5
FVH - Front-Very High(80-90)	63.174	2.7
Total Forward Light	1158.5	50.1

BL - Back-Low(0-30)	267.34	11.6
BM - Back-Medium(30-60)	521.96	22.6
BH - Back-High(60-80)	242.31	10.5
BVH - Back-Very High(80-90)	62.544	2.7
Total Back Light	1153.9	49.9

UL - Uplight-Low(90-100)	74.364	3.2
UH - Uplight-High(100-180)	46.685	2.0
Total Up Light	121.05	5.2

BUG(Back,Up,Glare) Rating	B1-U3-G1
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1094.1	59.726	1153.9
Street Side	1097.2	61.323	1158.5

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:1  
Test Date:2019-08-23

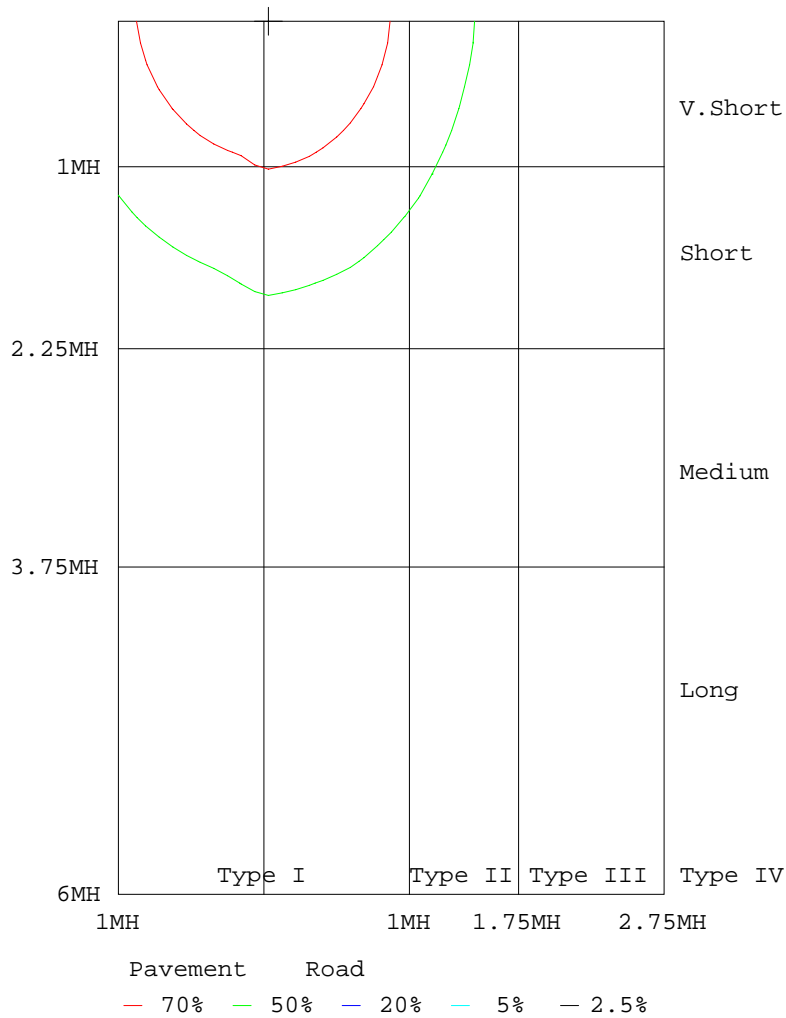
$\gamma$  Range: 0 - 110DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
Humidity:65.0%  
Test Distance:9.840m [K=1.0000]  
Remarks:



ROAD ISOCANDELA REPORT

Test:U:229.59V I:0.0863A P:19.034W PF:0.9602 Freq:49.99Hz Lamp Flux:2312.35x1 lm		
NAME: F1139_LED PRO TRI-PROOF LIGHT	TYPE:	WEIGHT:180G
SPEC.:	DIM.:	SERIAL No.:1
MFR.: FILUX	SUR.:	Shielding Angle:270`

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:1  
 Test Date:2019-08-23

γ Range: 0 - 110DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
 Humidity:65.0%  
 Test Distance:9.840m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.59V I:0.0863A P:19.034W PF:0.9602 Freq:49.99Hz Lamp Flux:2312.35x1 lm		
NAME: F1139_LED PRO TRI-PROOF LIGHT	TYPE:	WEIGHT:180G
SPEC.:	DIM.:	SERIAL No.:1
MFR.: FILUX	SUR.:	Shielding Angle:270`

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	701	698	696	694	693	692	690	689	688	687	686	685	684	684	683	682	682	681	701
5	701	699	696	694	692	690	688	687	685	684	682	680	679	678	677	676	676	675	696
10	696	693	690	688	685	683	680	678	675	673	671	669	668	667	665	665	664	664	685
15	685	683	679	676	673	669	665	663	659	657	654	652	650	649	648	648	648	648	669
20	669	667	663	659	654	650	645	641	636	633	630	629	627	626	625	626	626	627	648
25	647	645	641	637	631	625	619	614	608	605	601	599	598	598	598	599	599	601	622
30	622	619	614	609	602	595	588	581	575	571	567	565	564	565	566	568	569	571	593
35	592	590	584	578	569	561	552	545	537	532	529	527	526	528	529	533	535	538	559
40	558	556	550	542	532	523	512	504	495	490	486	485	485	488	490	495	499	503	523
45	522	520	513	504	492	481	469	460	451	445	441	440	441	444	449	455	460	465	484
50	483	481	473	463	450	437	424	413	403	397	393	393	394	400	405	413	419	425	444
55	442	440	431	421	406	392	376	364	353	346	342	343	346	354	361	370	377	383	402
60	399	397	388	377	361	345	327	312	301	293	290	291	297	306	316	325	334	341	358
65	355	353	343	331	314	296	278	260	247	239	236	240	248	259	270	281	291	298	314
70	311	308	299	285	268	249	228	208	193	184	182	189	200	213	226	238	249	256	271
75	268	265	256	242	224	203	180	158	139	129	130	140	154	169	184	198	209	217	230
80	228	225	216	201	182	160	136	112	90.1	78.0	81.6	95.9	113	130	146	161	173	181	193
85	191	188	179	165	146	124	99.0	73.9	50.2	26.3	43.6	60.8	79.4	98.0	115	129	141	149	159
90	158	156	147	133	115	94.2	70.7	47.4	26.4	6.70	22.7	37.8	55.2	72.8	88.6	103	114	121	130
95	129	127	119	107	90.2	71.3	50.9	31.8	17.4	4.54	15.5	25.3	39.1	54.2	68.4	81.2	91.2	98.3	105
100	106	104	96.4	85.5	70.9	54.6	37.7	22.8	13.3	5.60	12.1	18.3	28.8	41.2	53.3	64.4	73.2	79.4	85.0
105	86.1	84.3	78.0	68.5	56.1	42.3	28.3	16.9	10.8	6.97	9.61	13.8	21.5	31.5	41.8	51.3	58.9	64.3	68.6
110	70.0	68.4	63.0	54.7	44.2	32.5	21.4	13.0	9.25	6.79	8.14	10.8	16.3	24.1	32.5	40.5	47.2	51.6	55.1
115	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
125	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	0.00	0.00
135	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
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	0.00	0.00	0.00	0.00	0.00	0.00
145	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
150	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
155	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
160	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
165	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
170	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
175	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
180	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

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:1  
 Test Date:2019-08-23

γ Range: 0 - 110DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
 Humidity:65.0%  
 Test Distance:9.840m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.59V I:0.0863A P:19.034W PF:0.9602 Freq:49.99Hz Lamp Flux:2312.35x1 lm		
NAME: F1139_LED PRO TRI-PROOF LIGHT	TYPE:	WEIGHT:180G
SPEC.:	DIM.:	SERIAL No.:1
MFR.: FILUX	SUR.:	Shielding Angle:270`

Table--2

UNIT: cd

C( DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	698	696	694	693	692	690	689	688	687	686	685	684	684	683	682	682	681		
5	693	691	689	687	686	685	685	684	683	683	683	683	682	682	682	682	682		
10	682	680	677	676	674	674	673	673	673	673	673	674	675	676	677	677	677		
15	665	663	661	659	657	656	655	655	655	657	658	660	662	664	666	667	667		
20	644	642	639	636	634	633	631	631	632	634	636	640	643	646	649	651	651		
25	618	616	612	609	605	604	602	602	603	606	609	614	618	623	627	630	631		
30	588	585	580	577	573	570	568	568	569	572	577	583	589	596	601	605	606		
35	554	550	545	540	535	532	530	529	530	535	540	547	555	563	570	575	577		
40	518	514	507	501	495	491	487	487	488	493	499	508	517	527	535	542	545		
45	479	474	467	459	451	446	442	442	443	448	455	466	476	488	498	506	509		
50	439	433	424	416	406	399	394	393	394	401	409	420	432	446	458	467	472		
55	396	391	381	371	360	351	344	343	344	351	360	373	387	403	416	426	431		
60	353	347	336	324	312	301	293	290	291	297	309	323	340	358	372	384	389		
65	309	302	291	279	265	252	242	236	237	244	257	274	293	311	328	341	347		
70	266	259	247	234	219	204	191	182	182	190	205	225	246	266	283	296	303		
75	226	218	206	191	175	158	141	130	127	137	155	177	200	221	240	253	261		
80	189	181	168	153	135	116	97.5	82.4	76.2	87.5	109	133	157	180	199	213	221		
85	155	148	135	120	102	82.6	62.3	44.5	24.2	47.3	70.2	95.8	121	144	163	177	185		
90	126	119	108	93.2	75.8	57.5	38.8	22.9	6.19	23.6	43.9	67.5	91.1	113	131	145	153		
95	102	95.7	84.9	71.9	56.3	40.6	25.6	14.9	4.97	15.2	28.8	47.9	68.5	88.1	105	118	125		
100	82.2	76.5	67.1	55.8	42.6	29.6	18.0	11.3	5.67	11.5	20.2	35.0	52.0	68.8	83.4	94.9	101		
105	66.3	61.3	53.2	43.5	32.4	21.8	13.2	8.80	5.58	8.90	14.7	25.8	39.8	54.0	66.6	76.3	82.0		
110	53.1	48.8	42.0	33.6	24.5	16.2	10.0	7.27	5.23	7.36	10.9	19.1	30.3	42.1	53.0	61.3	66.3		
115	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		
125	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		
135	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	0.00	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		
145	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		
150	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		
155	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		
160	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		
165	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		
170	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		
175	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		
180	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		

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:1  
 Test Date:2019-08-23

γ Range: 0 - 110DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.390  
 Humidity:65.0%  
 Test Distance:9.840m [K=1.0000]  
 Remarks: