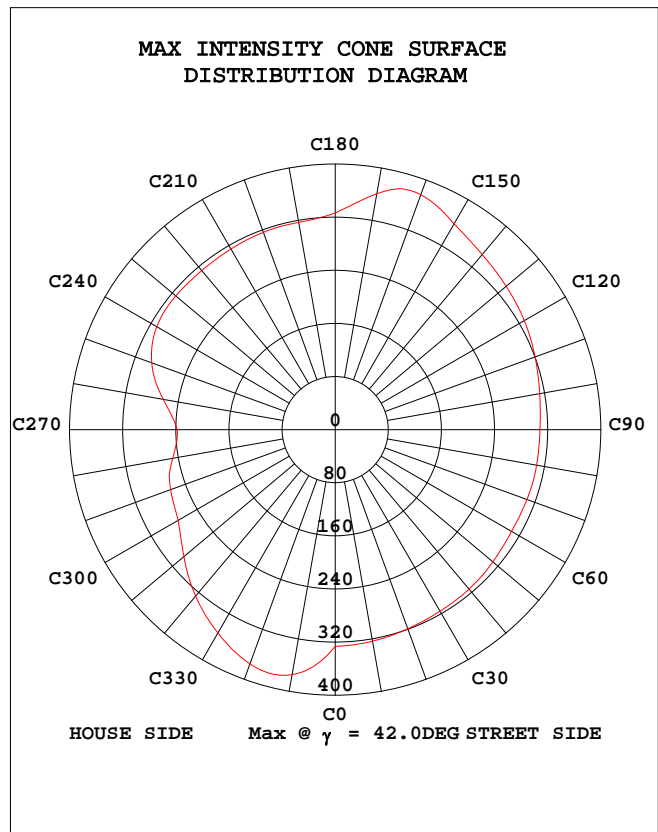
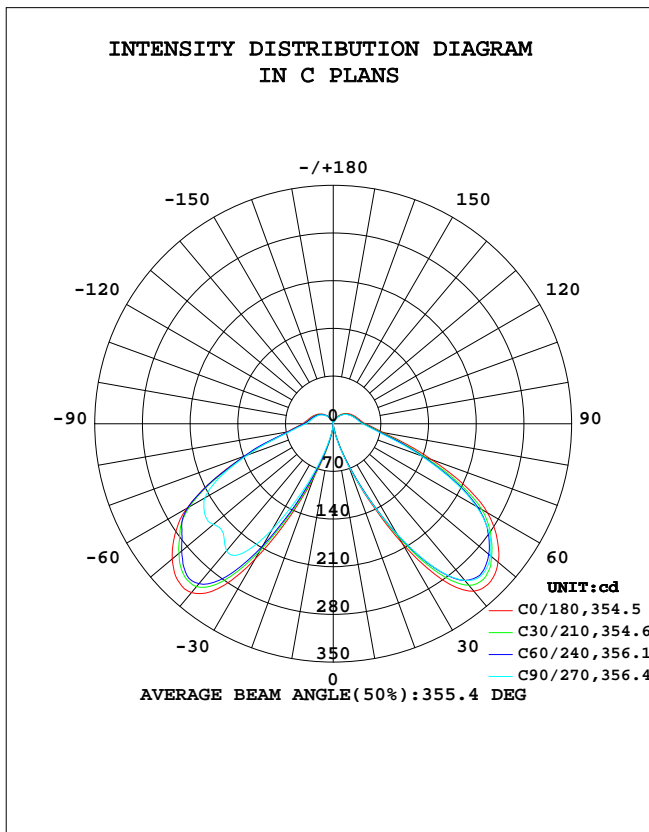


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.22V I:0.0593A P:12.105W PF:0.9267 Freq:50.01Hz Lamp Flux:1260.1x1 lm		
NAME: C-13A-12W-56	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.10 lm/W			
MODEL	SMD2835 30K	I _{max} (cd)	380.1	η street_up(%)	6.5
NOMINAL POWER(W)	12	LOR(%)	100.0	η street_down(%)	44.6
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1260	η house_up(%)	6.3
NOMINAL FLUX(lm)	1260.1	MAXIMUM @(C,γ)	345,42.0	η house_down(%)	42.7
LAMPS INSIDE	1	η up(%)	12.8	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	230.0	η down(%)	87.2	SLI	16.676



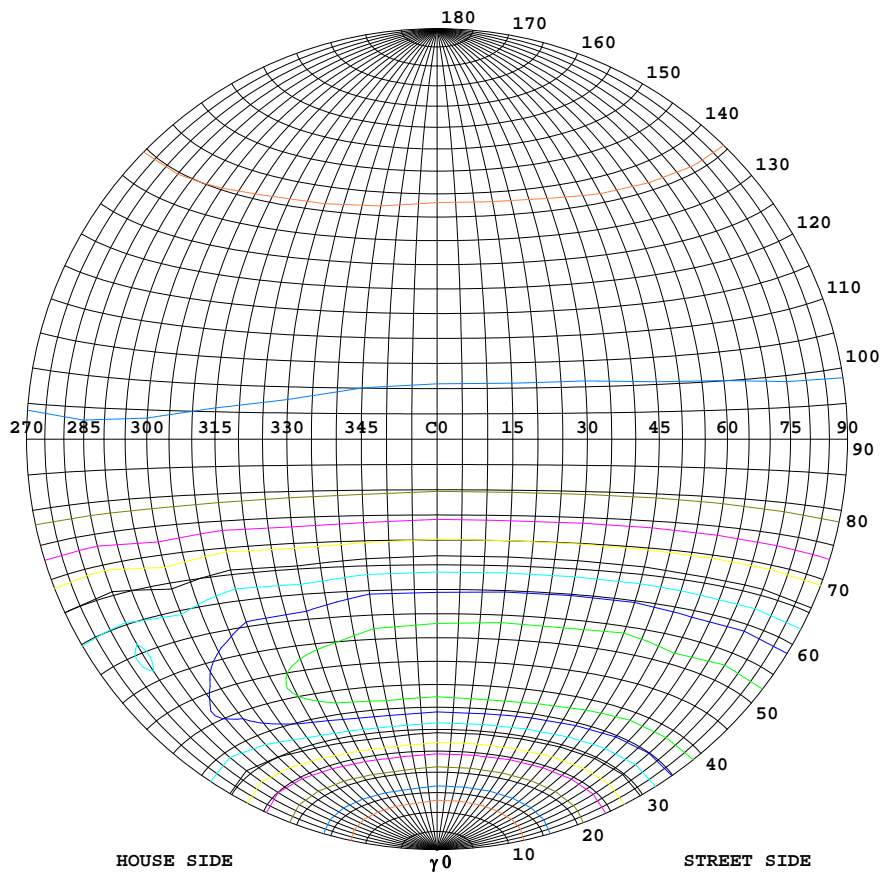
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:10.000m [K=1.0000]
Remarks: C-13A-12W-56(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.22V I:0.0593A P:12.105W PF:0.9267 Freq:50.01Hz Lamp Flux:1260.1x1 lm		
NAME: C-13A-12W-56	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



Classification:

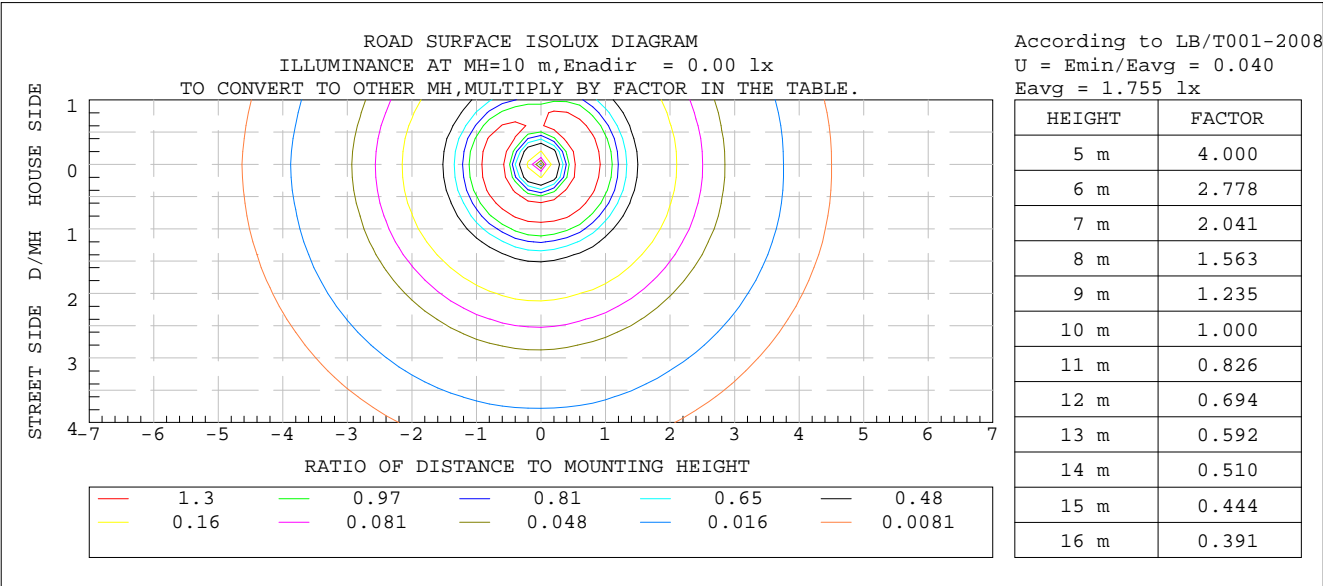
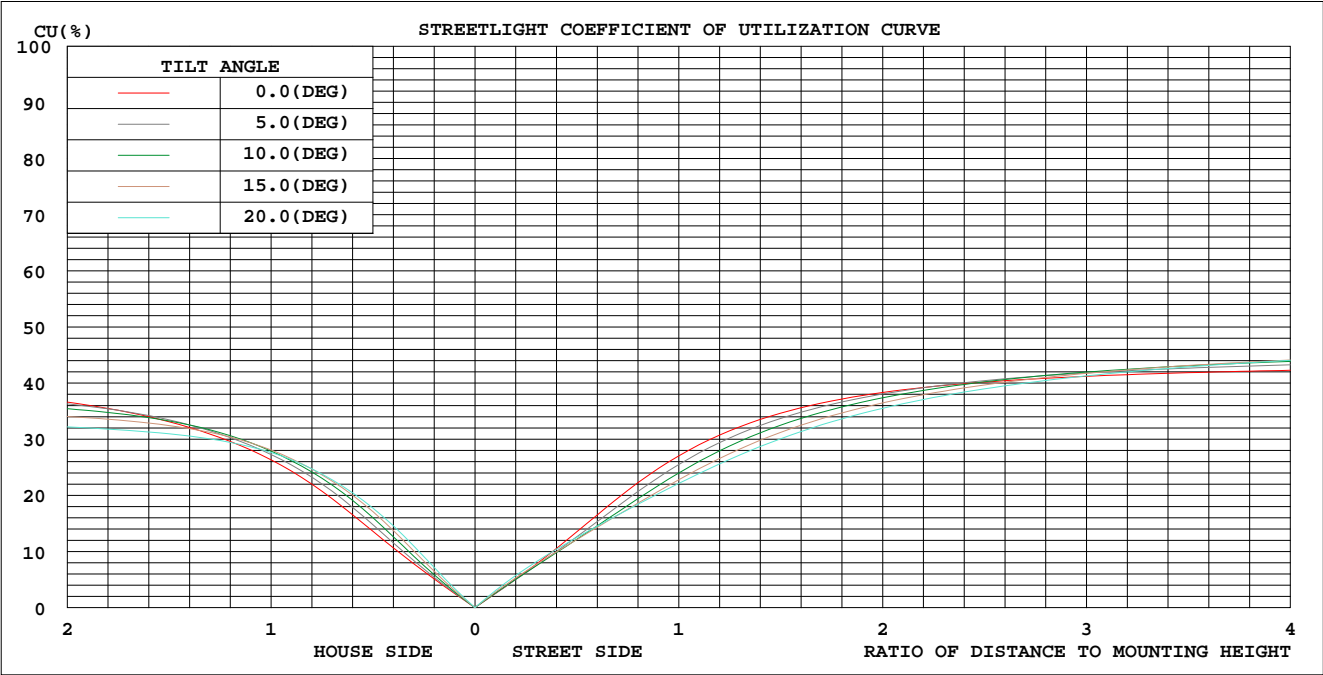
IES:Type V - Very Short
 CIE:Narrow - Short
 IES:None cut-off
 CIE:Semi-cut-off
 Max.At80:66.56cd/klm
 Max.At90:42.86cd/klm
 Max.80-90:66.56cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	380
90%	342
80%	304
70%	266
60%	228
50%	190
40%	152
30%	114
20%	76
10%	38
5%	19

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:10.000m [K=1.0000]
 Remarks: C-13A-12W-56(SMD2835 30K)

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:2022-09-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:10.000m [K=1.0000]
Remarks: C-13A-12W-56(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:220.22V I:0.0593A P:12.105W PF:0.9267 Freq:50.01Hz Lamp Flux:1260.1x1 lm		
NAME: C-13A-12W-56	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	7.512	9.322	11.70	14.29	16.03	14.64	11.04	8.264	0- 10	0.4823	0.4823	0.04,0.04
20	63.61	61.01	65.16	78.51	84.02	76.28	64.61	69.01	10- 20	11.19	11.67	0.93,0.93
30	202.8	189.5	186.7	221.5	229.3	211.7	178.8	212.8	20- 30	63.43	75.10	5.96,5.96
40	320.8	303.7	300.3	335.1	323.6	310.9	243.4	310.1	30- 40	171.1	246.2	19.5,19.5
50	315.7	303.7	301.4	325.4	308.6	292.7	229.8	298.0	40- 50	240.5	486.7	38.6,38.6
60	261.2	250.7	242.4	261.1	247.7	246.1	217.7	257.9	50- 60	249.1	735.8	58.4,58.4
70	153.2	141.1	136.6	146.0	137.6	137.0	133.4	150.4	60- 70	195.8	931.5	73.9,73.9
80	74.38	69.27	66.22	71.47	68.51	66.24	64.17	71.35	70- 80	107.1	1039	82.4,82.4
90	47.39	44.64	43.18	47.22	45.12	43.15	40.38	45.42	80- 90	60.68	1099	87.2,87.2
100	38.51	36.46	35.67	39.02	37.44	35.51	32.96	37.03	90-100	44.15	1143	90.7,90.7
110	33.32	31.35	30.75	33.73	32.40	30.82	28.70	32.08	100-110	36.41	1180	93.6,93.6
120	28.64	26.79	26.28	28.72	27.66	26.44	24.80	27.74	110-120	29.52	1209	96,96
130	23.66	21.86	21.38	23.23	22.44	21.53	20.42	23.07	120-130	22.45	1232	97.8,97.8
140	17.81	16.16	15.67	16.89	16.44	15.89	15.26	17.67	130-140	15.24	1247	99,99
150	11.28	10.02	9.421	10.21	9.940	9.820	9.698	11.26	140-150	8.557	1256	99.6,99.6
160	5.300	3.826	4.179	4.751	4.592	4.636	4.766	5.482	150-160	3.499	1259	99.9,99.9
170	1.838	1.447	1.147	1.264	1.523	1.547	1.619	1.853	160-170	0.8977	1260	100,100
180	0	0	0	0.0106	0.0144	0.0146	0.0137	0.0145	170-180	0.0859	1260	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

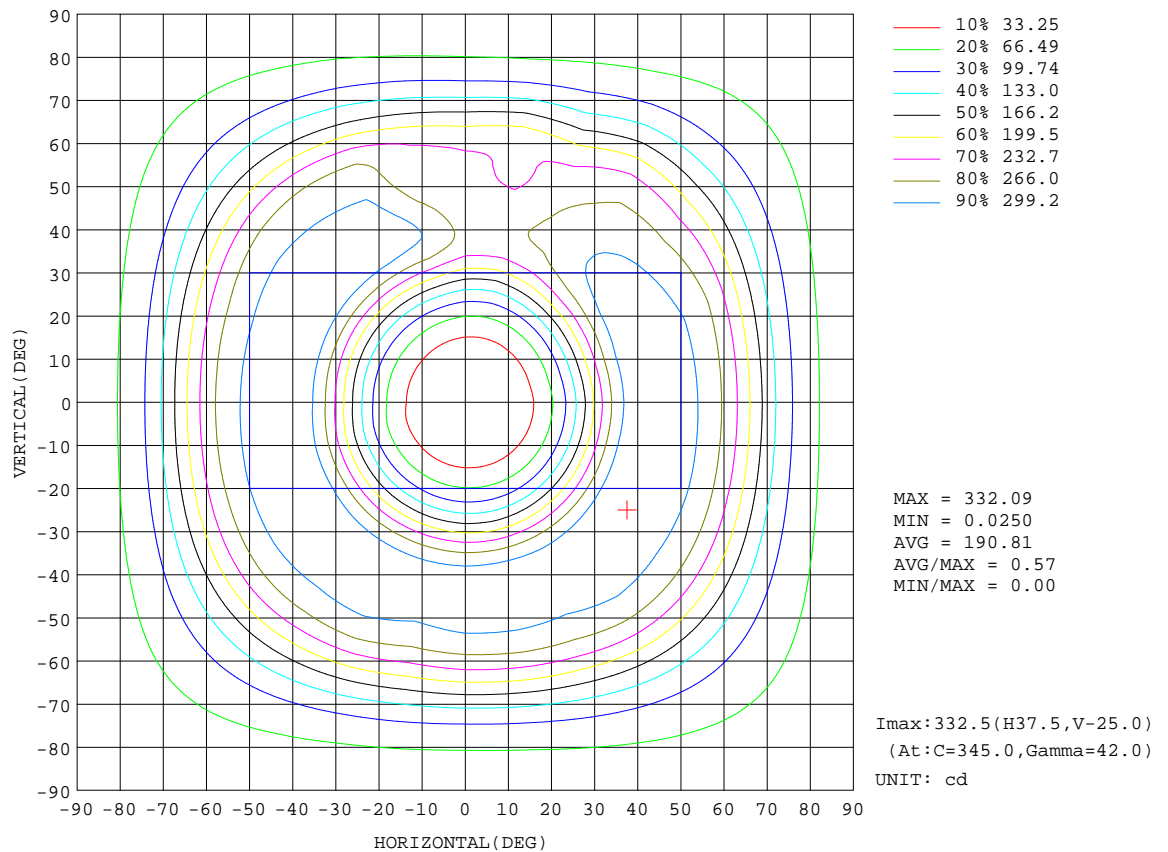
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:10.000m [K=1.0000]
 Remarks: C-13A-12W-56(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

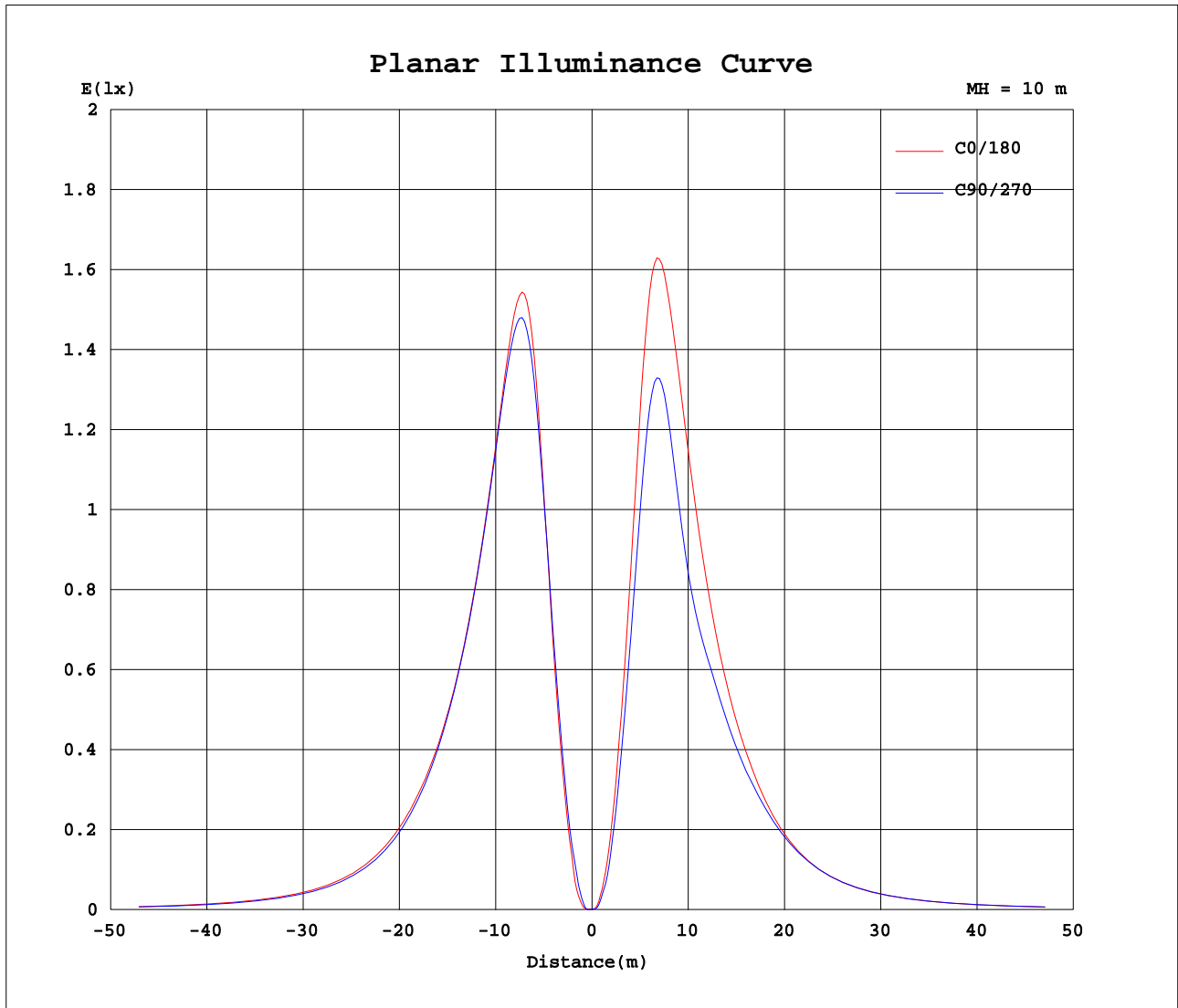
Test:U:220.22V I:0.0593A P:12.105W PF:0.9267 Freq:50.01Hz Lamp Flux:1260.1x1 lm		
NAME: C-13A-12W-56	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-09-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 10.000m [K=1.0000]
Remarks: C-13A-12W-56(SMD2835 30K)

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-09-07

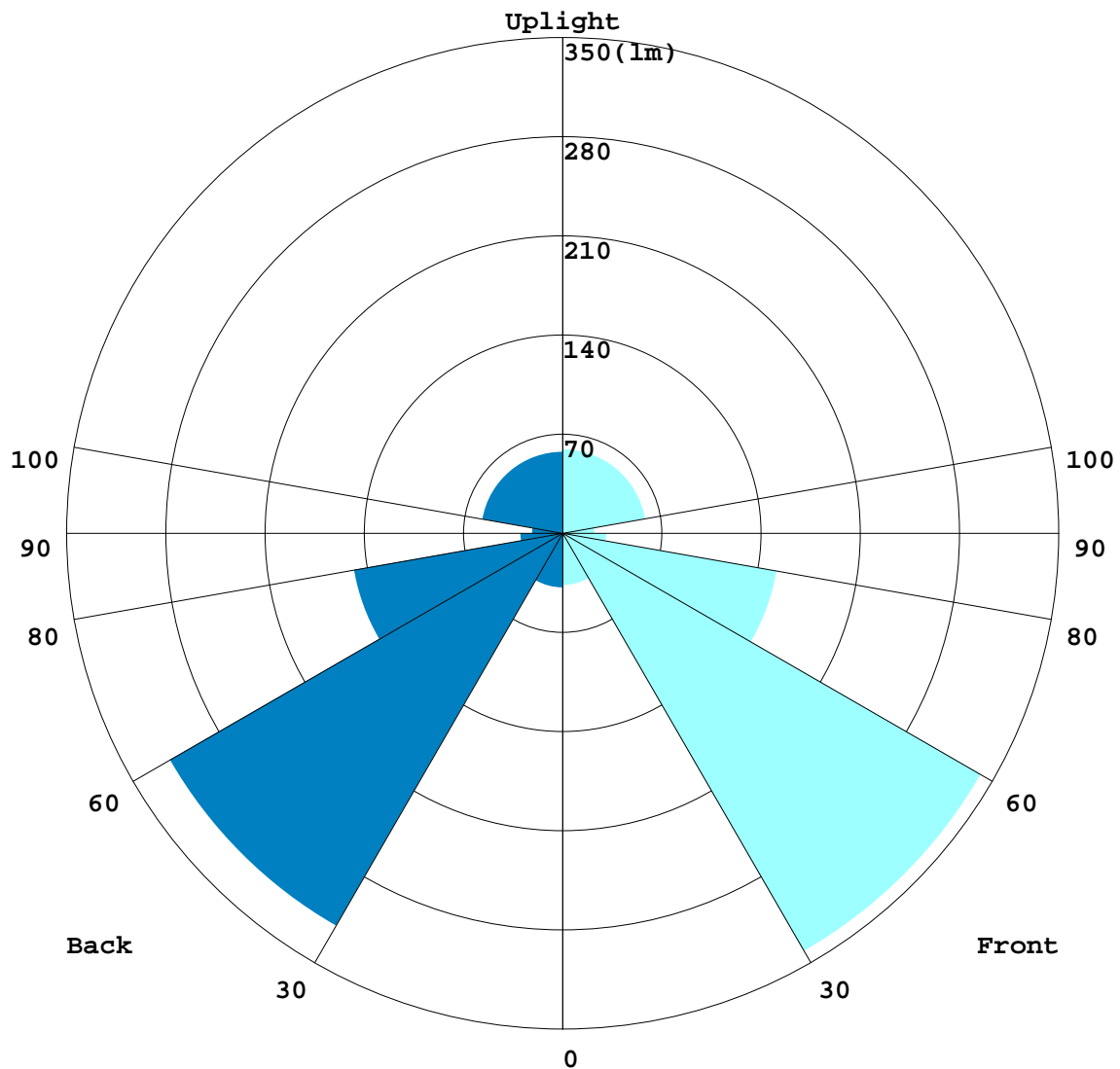
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 10.000m [K=1.0000]
Remarks: C-13A-12W-56(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:220.22V I:0.0593A P:12.105W PF:0.9267 Freq:50.01Hz Lamp Flux:1260.1x1 lm		
NAME: C-13A-12W-56	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:2022-09-07

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:10.000m [K=1.0000]
Remarks: C-13A-12W-56(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:220.22V I:0.0593A P:12.105W PF:0.9267 Freq:50.01Hz Lamp Flux:1260.1x1 lm		
NAME: C-13A-12W-56	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	36.704	2.9
FM - Front-Medium(30-60)	340.65	27.0
FH - Front-High(60-80)	153.42	12.2
FVH - Front-Very High(80-90)	30.85	2.4
Total Forward Light	643.35	51.1

BL - Back-Low(0-30)	38.394	3.0
BM - Back-Medium(30-60)	320.01	25.4
BH - Back-High(60-80)	149.44	11.9
BVH - Back-Very High(80-90)	29.835	2.4
Total Back Light	616.75	48.9

UL - Uplight-Low(90-100)	44.15	3.5
UH - Uplight-High(100-180)	116.66	9.3
Total Up Light	160.81	12.8

BUG(Back,Up,Glare) Rating	B1-U3-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	537.68	79.076	616.75
Street Side	561.62	81.733	643.35

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-07

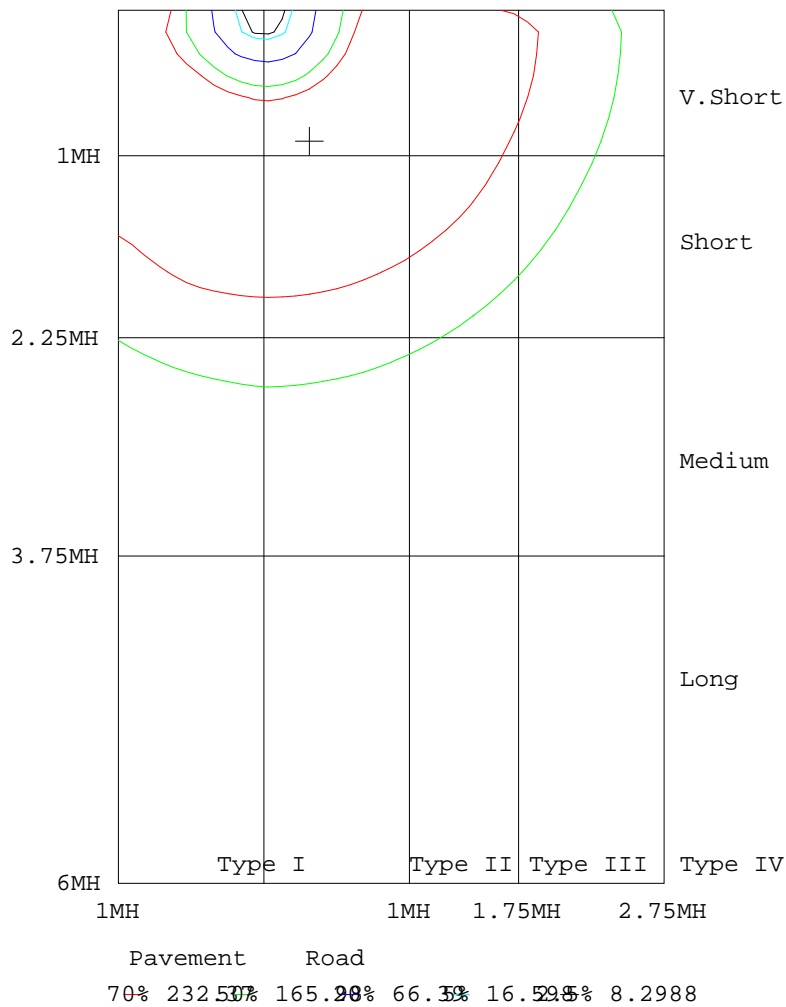
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:10.000m [K=1.0000]
 Remarks: C-13A-12W-56(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:220.22V I:0.0593A P:12.105W PF:0.9267 Freq:50.01Hz Lamp Flux:1260.1x1 lm		
NAME: C-13A-12W-56	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:2022-09-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:10.000m [K=1.0000]
Remarks: C-13A-12W-56(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.22V I:0.0593A P:12.105W PF:0.9267 Freq:50.01Hz Lamp Flux:1260.1x1 lm																			
NAME: C-13A-12W-56										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	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
5	0.62	0.61	0.65	0.81	1.02	1.23	1.50	1.80	2.09	2.39	2.69	3.03	3.63	3.56	3.49	3.41	3.29	2.87	2.22
10	7.51	8.97	8.96	9.32	9.86	10.4	11.7	12.3	13.3	14.3	15.6	16.8	16.0	15.7	15.2	14.6	13.7	12.4	11.0
15	28.2	27.1	27.0	27.6	28.4	29.3	30.8	33.2	35.1	37.7	40.7	43.8	42.1	41.1	39.7	38.4	36.0	33.4	31.4
20	63.6	61.7	60.8	61.0	62.0	62.9	65.2	69.5	73.5	78.5	84.2	90.7	84.0	81.5	78.8	76.3	73.2	68.8	64.6
25	123	119	116	116	115	115	118	126	133	141	151	163	149	144	139	135	131	124	115
30	203	197	192	189	187	183	187	199	209	221	238	256	229	222	215	212	206	196	179
35	280	274	266	261	258	254	257	270	281	295	316	336	296	288	282	279	274	260	232
40	321	316	309	304	300	300	300	311	322	335	354	372	324	315	312	311	307	284	243
45	327	322	317	315	309	310	311	317	330	339	357	375	324	313	312	309	307	267	228
50	316	310	303	304	298	299	301	303	318	325	342	361	309	298	295	293	291	241	230
55	293	288	282	283	277	279	279	280	294	300	317	334	284	276	275	272	271	229	230
60	261	256	252	251	245	244	242	243	255	261	276	289	248	242	244	246	247	223	218
65	211	206	200	197	193	192	190	190	197	203	214	227	193	190	190	191	193	185	182
70	153	148	144	141	140	138	137	138	141	146	153	162	138	135	136	137	139	136	133
75	106	102	100	98.7	96.9	93.7	92.8	96.0	96.6	101	106	112	94.1	92.3	92.7	94.2	96.5	94.7	91.9
80	74.4	72.0	70.1	69.3	68.4	66.5	66.2	68.4	68.7	71.5	75.8	80.7	68.5	67.0	66.2	66.2	66.8	65.5	64.2
85	58.2	56.4	55.1	54.2	53.7	52.1	52.0	53.6	54.3	56.5	59.9	63.6	54.1	52.8	52.2	52.3	52.7	50.9	50.0
90	47.4	46.0	45.2	44.6	44.4	43.2	43.2	44.5	45.3	47.2	50.1	53.0	45.1	43.8	43.2	43.1	43.2	41.5	40.4
95	41.9	40.8	40.2	39.7	39.6	38.7	38.7	39.8	40.7	42.3	44.8	47.4	40.6	39.4	38.7	38.6	38.3	36.8	35.8
100	38.5	37.5	36.9	36.5	36.4	35.6	35.7	36.6	37.5	39.0	41.3	43.6	37.4	36.3	35.7	35.5	35.1	33.8	33.0
105	35.8	34.8	34.2	33.8	33.7	33.1	33.1	34.0	34.9	36.3	38.3	40.5	34.8	33.8	33.2	33.1	32.6	31.4	30.7
110	33.3	32.4	31.8	31.4	31.2	30.8	30.7	31.6	32.4	33.7	35.6	37.7	32.4	31.5	31.0	30.8	30.3	29.2	28.7
115	31.0	30.2	29.5	29.1	28.9	28.5	28.5	29.3	30.0	31.3	33.0	34.9	30.1	29.2	28.8	28.7	28.1	27.2	26.8
120	28.6	27.9	27.2	26.8	26.6	26.2	26.3	27.0	27.5	28.7	30.3	32.1	27.7	26.9	26.5	26.4	25.9	25.1	24.8
125	26.3	25.5	24.9	24.4	24.2	23.9	23.9	24.6	25.0	26.1	27.6	29.2	25.1	24.5	24.1	24.1	23.5	22.8	22.7
130	23.7	23.0	22.3	21.9	21.7	21.4	21.4	21.9	22.3	23.2	24.6	26.1	22.4	21.9	21.6	21.5	21.0	20.4	20.4
135	20.8	20.2	19.6	19.1	19.0	18.7	18.6	19.1	19.4	20.2	21.4	22.8	19.5	19.1	18.8	18.8	18.4	17.8	17.9
140	17.8	17.2	16.7	16.2	16.0	15.7	15.7	16.0	16.2	16.9	18.0	19.2	16.4	16.1	15.9	15.9	15.6	15.2	15.3
145	14.6	14.1	13.6	13.1	12.9	12.6	12.6	12.8	13.0	13.5	14.5	15.5	13.2	13.0	12.8	12.9	12.7	12.4	12.5
150	11.3	10.9	10.5	10.0	9.77	9.52	9.42	9.61	9.75	10.21	11.0	11.8	9.94	9.81	9.75	9.82	9.78	9.52	9.70
155	8.05	7.30	7.01	7.01	6.74	6.63	6.56	6.70	6.81	7.19	7.77	8.35	7.00	6.94	6.96	7.01	7.04	6.92	7.02
160	5.30	4.96	4.06	3.83	3.90	4.10	4.18	4.33	4.45	4.75	5.11	5.52	4.59	4.56	4.61	4.64	4.71	4.71	4.77
165	3.28	2.97	2.68	2.59	2.47	2.31	2.35	2.51	2.74	2.92	3.13	3.39	2.79	2.77	2.80	2.82	2.92	2.92	2.97
170	1.84	1.70	1.53	1.45	1.31	1.26	1.15	1.29	1.49	1.26	1.56	1.87	1.52	1.50	1.53	1.55	1.61	1.60	1.62
175	0.57	0.44	0.44	0.36	0.35	0.34	0.34	0.34	0.32	0.33	0.35	0.38	0.48	0.49	0.63	0.68	0.72	0.75	0.77
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:10.000m [K=1.0000]
Remarks: C-13A-12W-56(SMD2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.22V I:0.0593A P:12.105W PF:0.9267 Freq:50.01Hz Lamp Flux:1260.1x1 lm					
NAME: C-13A-12W-56			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	0.13	0.13	0.13	0.13	0.13														
5	1.61	0.88	0.49	0.54	0.90														
10	9.65	8.91	8.26	8.62	10.79														
15	30.7	30.4	31.6	33.3	35.5														
20	63.8	65.0	69.0	73.9	78.6														
25	114	120	131	141	149														
30	178	191	213	230	245														
35	236	249	281	308	331														
40	259	271	310	349	375														
45	251	273	310	348	378														
50	232	265	298	327	363														
55	224	249	281	300	338														
60	227	225	258	269	303														
65	194	181	209	215	241														
70	142	133	150	156	172														
75	95.9	95.3	104	109	119														
80	65.6	67.9	71.3	77.4	83.9														
85	50.7	52.1	55.6	60.6	66.0														
90	40.7	42.2	45.4	49.3	54.0														
95	36.2	37.3	40.2	43.6	48.0														
100	33.5	34.3	37.0	40.1	44.1														
105	31.3	31.9	34.4	37.2	40.9														
110	29.3	29.9	32.1	34.7	38.1														
115	27.4	28.0	29.9	32.3	35.3														
120	25.4	26.1	27.7	29.9	32.5														
125	23.3	24.0	25.5	27.4	29.6														
130	21.1	21.7	23.1	24.7	26.7														
135	18.6	19.3	20.5	21.7	23.4														
140	16.0	16.6	17.7	18.6	20.0														
145	13.2	13.7	14.5	15.3	16.4														
150	10.2	10.6	11.3	12.0	12.7														
155	7.40	7.70	8.21	8.72	9.19														
160	4.99	5.18	5.48	5.83	6.19														
165	3.10	3.19	3.37	3.57	3.80														
170	1.72	1.77	1.85	1.94	2.05														
175	0.79	0.79	0.79	0.83	0.89														
180	0.01	0.01	0.01	0.02	0.02														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-07

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:10.000m [K=1.0000]
Remarks: C-13A-12W-56(SMD2835 30K)