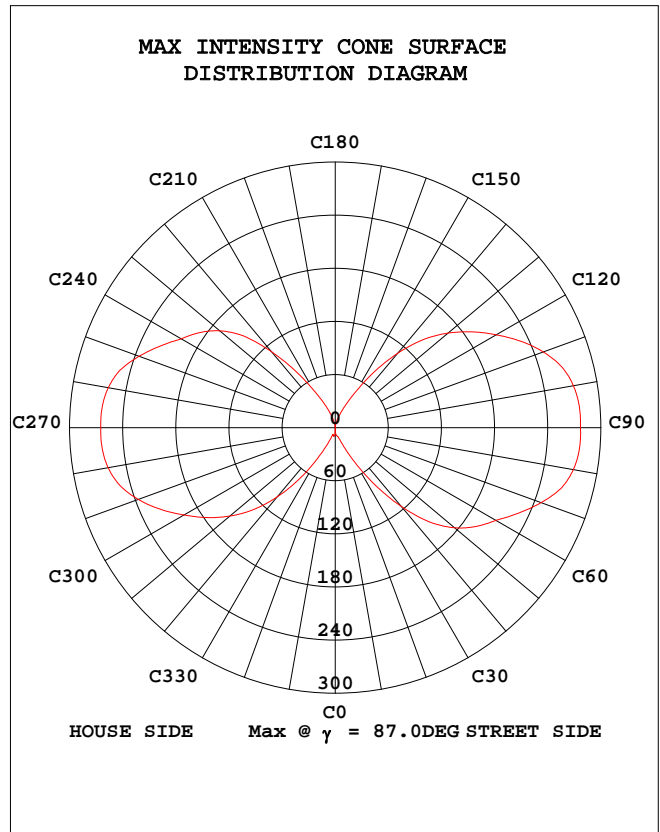
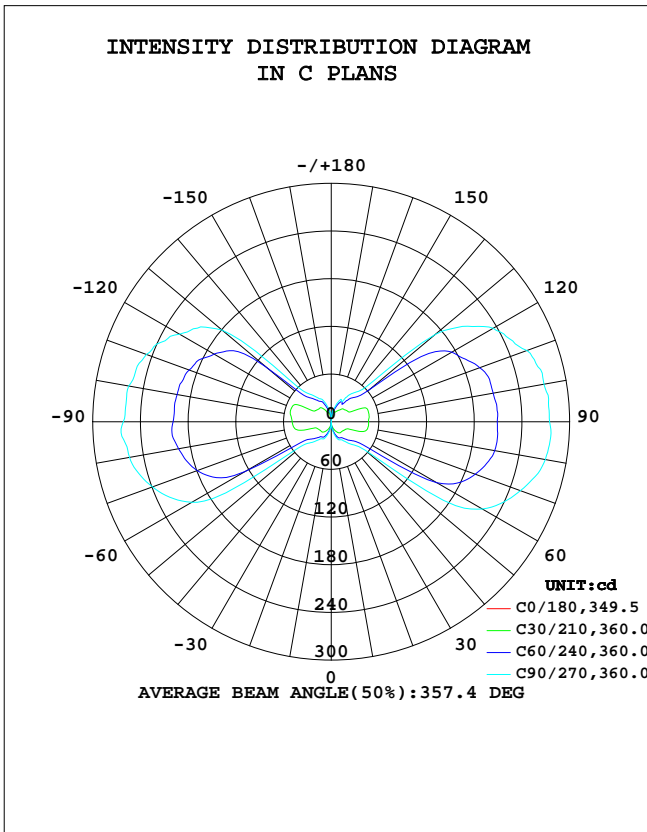


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.34V I:0.0610A P:12.840W PF:0.9130 Freq:50.00Hz Lamp Flux:941.415x1 lm		
NAME: B-14D-13W-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.32 lm/W			
MODEL	B-14D-13W-30K	I _{max} (cd)	277.0	η street_up(%)	27.2
NOMINAL POWER(W)	13	LOR(%)	100.0	η street_down(%)	24.1
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	941.4	η house_up(%)	26.5
NOMINAL FLUX(lm)	941.415	MAXIMUM @(C,γ)	90,87.0	η house_down(%)	22.2
LAMPS INSIDE	1	η up(%)	53.7	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	η down(%)	46.3	SLI	10.015



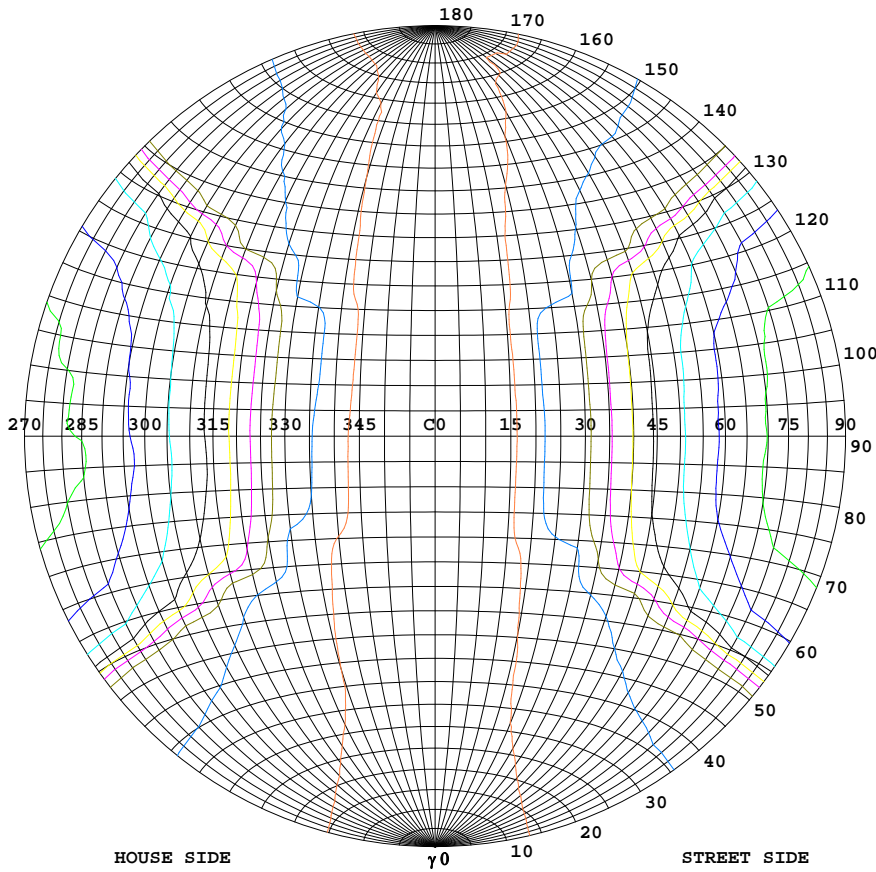
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 19.9DEG
Operators: CS01
Test Date: 2021-10-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 51.1%
Test Distance: 26.000m [K=1.0000]
Remarks: B-14D-13W-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:230.34V I:0.0610A P:12.840W PF:0.9130 Freq:50.00Hz Lamp Flux:941.415x1 lm		
NAME: B-14D-13W-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



Classification:

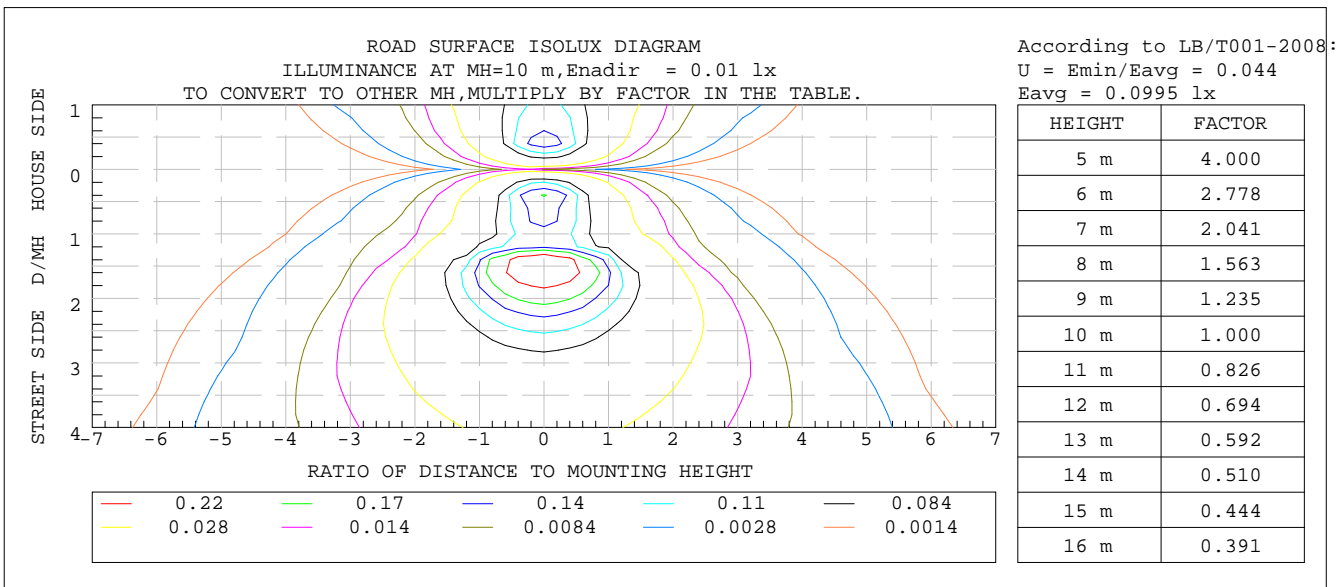
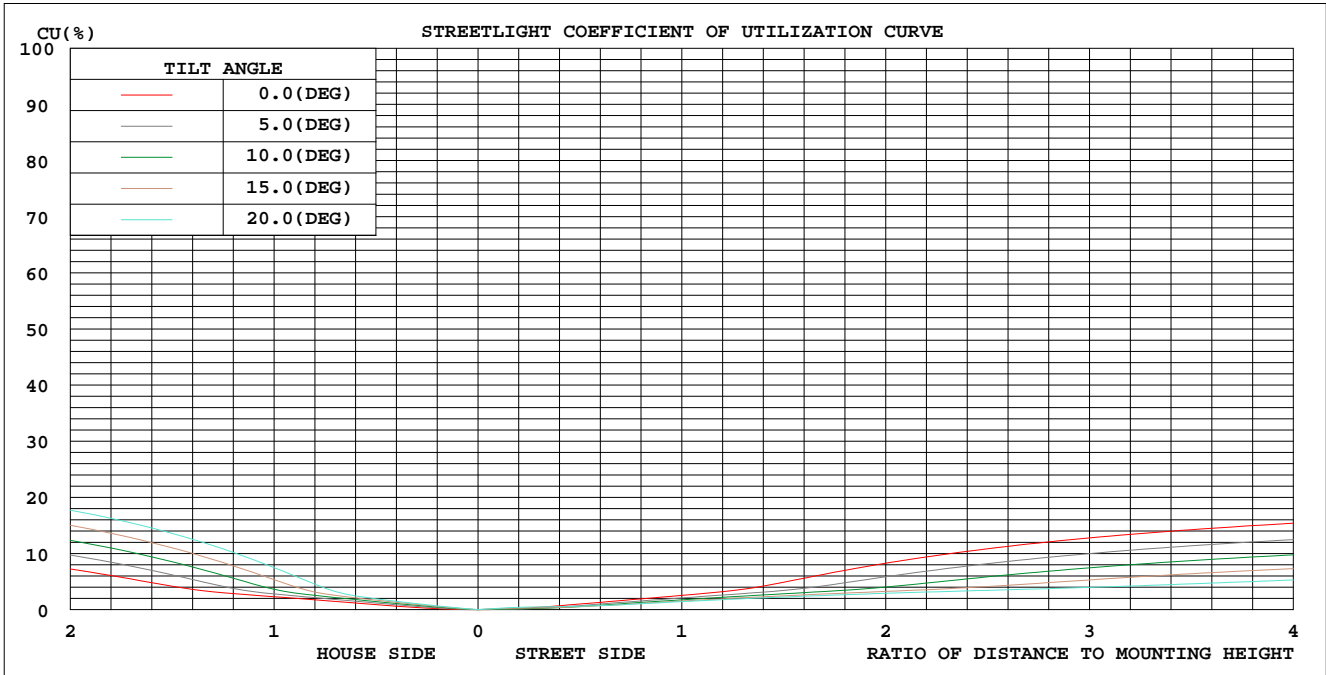
IES:Type V - Very Short
 CIE:Narrow - Long
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:290.7cd/klm
 Max.At90:291.8cd/klm
 Max.80-90:294.2cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	277
90%	249
80%	222
70%	194
60%	166
50%	138
40%	111
30%	83
20%	55
10%	28
5%	14

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 19.9DEG
 Operators:CS01
 Test Date:2021-10-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 51.1%
 Test Distance:26.000m [K=1.0000]
 Remarks: B-14D-13W-30K

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 19.9DEG
Operators:CS01
Test Date:2021-10-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 51.1%
Test Distance:26.000m [K=1.0000]
Remarks: B-14D-13W-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:230.34V I:0.0610A P:12.840W PF:0.9130 Freq:50.00Hz Lamp Flux:941.415x1 lm		
NAME: B-14D-13W-30K	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	0.9849	7.879	11.47	7.064	0.5314	6.437	9.877	5.875	0- 10	0.3968	0.3968	0.04,0.04
20	0.9854	15.65	22.80	14.21	0.4060	13.67	20.55	12.50	10- 20	2.725	3.122	0.33,0.33
30	0.9858	21.81	26.21	20.13	0.4045	20.21	24.78	18.37	20- 30	6.809	9.931	1.05,1.05
40	0.9757	23.05	36.23	21.34	0.4030	21.87	32.50	19.83	30- 40	11.24	21.17	2.25,2.25
50	0.8817	29.02	55.59	26.47	0.4033	26.52	45.11	23.87	40- 50	17.29	38.46	4.08,4.08
60	0.7423	47.65	219.5	36.81	0.4206	34.69	202.6	31.78	50- 60	44.00	82.45	8.76,8.76
70	0.6567	136.5	253.4	125.5	0.4378	127.5	239.4	116.3	60- 70	95.94	178.4	18.9,18.9
80	0.5615	149.1	273.6	139.5	0.6494	143.0	257.7	129.2	70- 80	123.4	301.8	32.1,32.1
90	0.4669	150.8	274.7	140.4	0.7541	146.1	261.6	130.2	80- 90	134.0	435.8	46.3,46.3
100	0.4582	150.4	271.8	139.7	0.8760	146.2	258.7	129.6	90-100	133.5	569.3	60.5,60.5
110	0.4655	144.3	262.2	134.7	1.095	141.6	247.5	126.1	100-110	127.9	697.2	74.1,74.1
120	0.4728	118.4	235.3	115.6	1.131	124.9	220.4	108.1	110-120	110.3	807.5	85.8,85.8
130	0.7650	38.66	171.6	37.26	1.496	40.29	179.7	33.81	120-130	76.36	883.8	93.9,93.9
140	0.9574	29.61	48.90	29.63	1.716	31.66	47.23	27.93	130-140	29.16	913.0	97,97
150	0.9491	25.20	32.26	24.72	1.971	27.35	35.53	25.42	140-150	15.14	928.1	98.6,98.6
160	1.479	17.75	27.29	16.37	2.020	17.64	28.04	18.65	150-160	8.842	937.0	99.5,99.5
170	1.804	12.78	14.36	12.95	1.972	13.01	13.62	12.00	160-170	3.787	940.8	99.9,99.9
180	0.4743	0.5594	1.276	0.0855	0.3648	0.7260	1.091	0.7281	170-180	0.6541	941.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

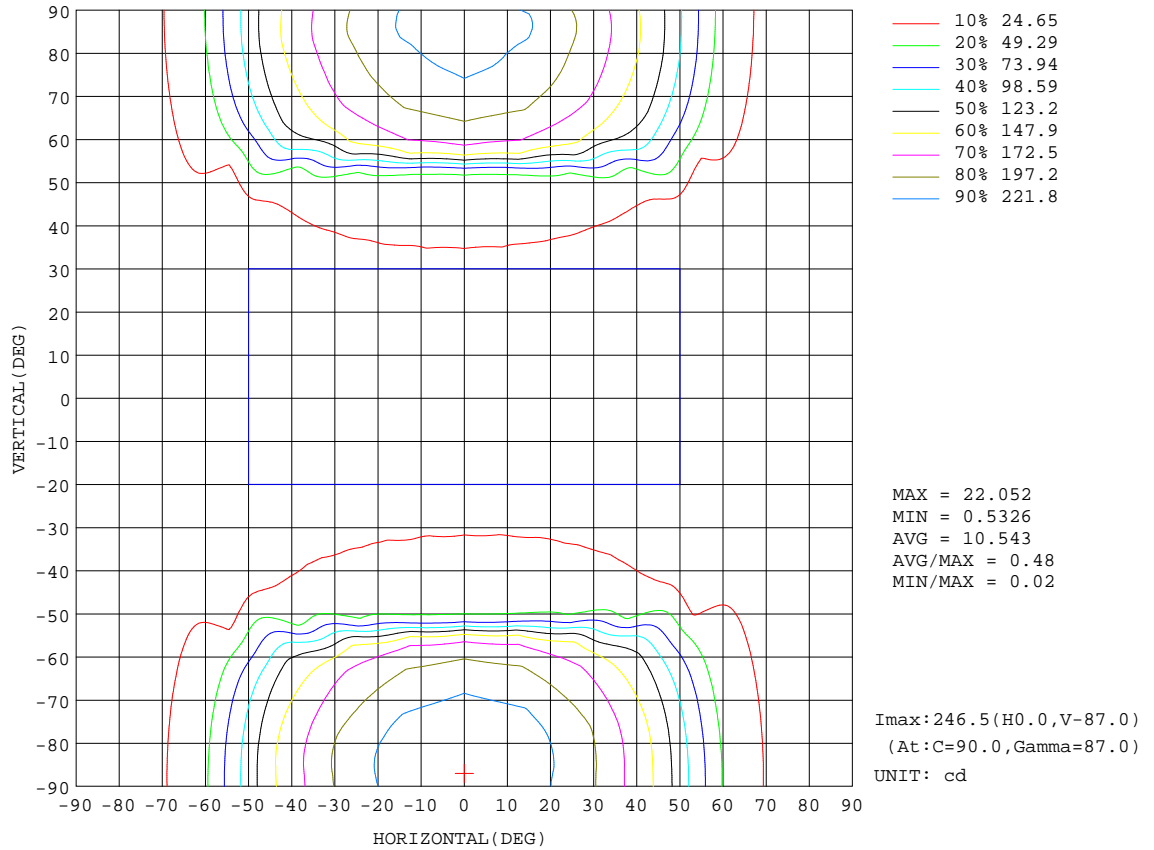
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 19.9DEG
 Operators:CS01
 Test Date:2021-10-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 51.1%
 Test Distance:26.000m [K=1.0000]
 Remarks: B-14D-13W-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

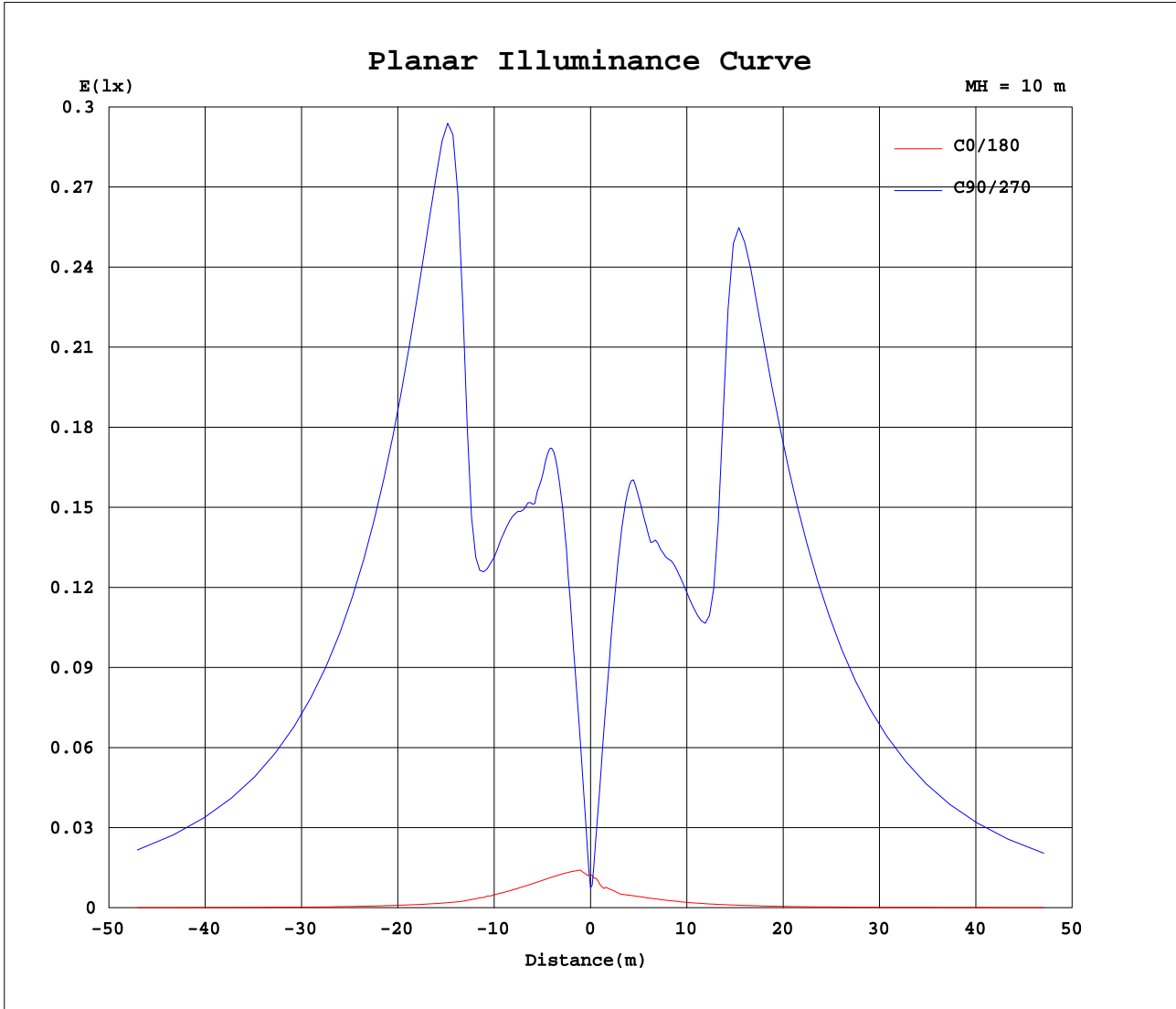
Test:U:230.34V I:0.0610A P:12.840W PF:0.9130 Freq:50.00Hz Lamp Flux:941.415x1 lm		
NAME: B-14D-13W-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 19.9DEG
 Operators:CS01
 Test Date:2021-10-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 51.1%
 Test Distance:26.000m [K=1.0000]
 Remarks: B-14D-13W-30K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 19.9DEG
Operators:CS01
Test Date:2021-10-22

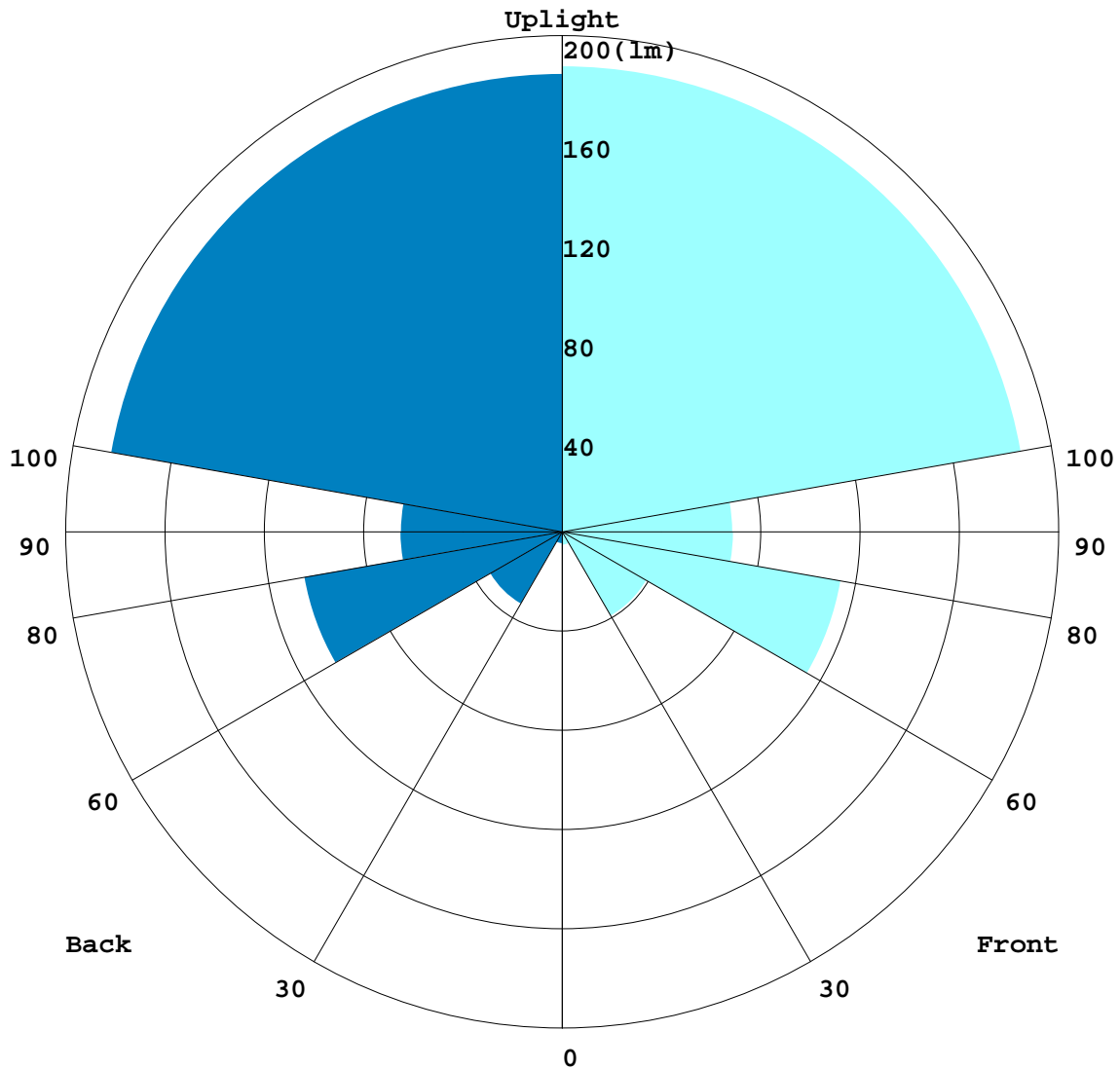
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 51.1%
Test Distance:26.000m [K=1.0000]
Remarks: B-14D-13W-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:230.34V I:0.0610A P:12.840W PF:0.9130 Freq:50.00Hz Lamp Flux:941.415x1 lm		
NAME: B-14D-13W-30K	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: 19.9DEG
 Operators:CS01
 Test Date:2021-10-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 51.1%
 Test Distance:26.000m [K=1.0000]
 Remarks: B-14D-13W-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:230.34V I:0.0610A P:12.840W PF:0.9130 Freq:50.00Hz Lamp Flux:941.415x1 lm		
NAME: B-14D-13W-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	5.2676	0.6
FM - Front-Medium(30-60)	39.123	4.2
FH - Front-High(60-80)	113.93	12.1
FVH - Front-Very High(80-90)	68.916	7.3
Total Forward Light	483.4	51.3

BL - Back-Low(0-30)	4.663	0.5
BM - Back-Medium(30-60)	33.398	3.5
BH - Back-High(60-80)	105.41	11.2
BVH - Back-Very High(80-90)	65.129	6.9
Total Back Light	458.01	48.7

UL - Uplight-Low(90-100)	133.47	14.2
UH - Uplight-High(100-180)	372.1	39.5
Total Up Light	505.57	53.7

BUG(Back,Up,Glare) Rating	B0-U3-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	208.6	249.41	458.01
Street Side	227.24	256.16	483.4

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 19.9DEG
 Operators:CS01
 Test Date:2021-10-22

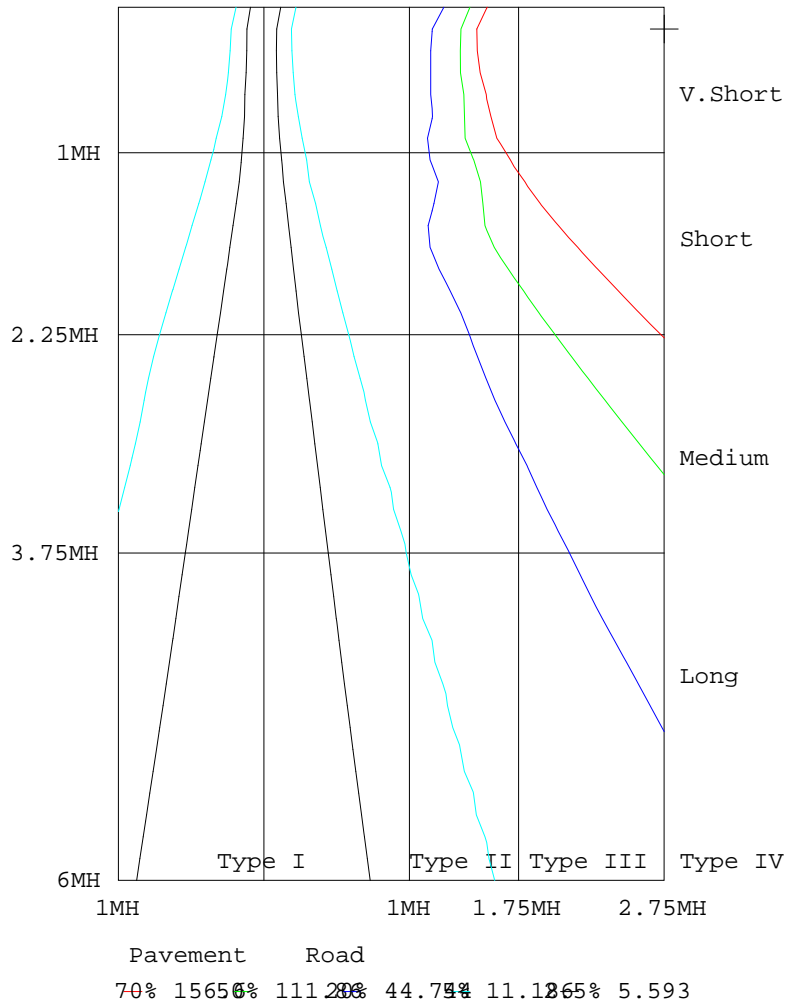
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 51.1%
 Test Distance:26.000m [K=1.0000]
 Remarks: B-14D-13W-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:230.34V I:0.0610A P:12.840W PF:0.9130 Freq:50.00Hz Lamp Flux:941.415x1 lm		
NAME: B-14D-13W-30K	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: 19.9DEG
 Operators:CS01
 Test Date:2021-10-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 51.1%
 Test Distance:26.000m [K=1.0000]
 Remarks: B-14D-13W-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.34V I:0.0610A P:12.840W PF:0.9130 Freq:50.00Hz Lamp Flux:941.415x1 lm		
NAME: B-14D-13W-30K	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	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
5	0.95	1.99	2.98	4.12	4.86	5.90	5.97	5.74	4.79	3.77	2.96	1.93	0.66	1.10	2.06	3.03	3.77	4.44	4.61
10	0.98	3.19	5.40	7.88	9.55	11.3	11.5	11.19	9.23	7.06	5.47	2.83	0.53	2.20	4.26	6.44	7.91	9.52	9.88
15	0.99	4.50	7.91	11.9	14.4	17.1	17.6	16.8	14.0	10.6	7.88	3.93	0.45	3.30	6.50	9.93	12.4	14.8	15.3
20	0.99	5.60	10.4	15.6	19.1	22.3	22.8	22.3	18.6	14.2	10.45	5.23	0.41	4.45	8.81	13.7	16.9	20.1	20.5
25	0.99	7.01	12.9	19.1	22.6	25.1	25.3	25.0	22.4	17.5	13.0	6.19	0.41	5.55	11.2	17.3	20.7	23.8	23.9
30	0.99	7.91	15.4	21.8	23.4	26.1	26.2	25.9	23.2	20.1	15.5	7.29	0.40	6.70	13.5	20.2	22.3	24.6	24.8
35	0.99	8.95	17.1	22.2	25.0	29.9	30.5	29.4	24.4	20.7	17.6	8.18	0.40	7.80	15.5	21.4	23.0	27.3	27.9
40	0.98	9.95	18.0	23.0	28.9	35.2	36.2	34.8	28.1	21.3	19.0	9.12	0.40	8.75	17.1	21.9	26.1	31.2	32.5
45	0.95	10.5	18.1	25.9	33.3	40.3	41.7	39.9	32.6	23.5	19.2	9.81	0.40	9.58	17.4	23.9	30.0	36.3	37.6
50	0.88	11.3	18.2	29.0	38.0	50.6	55.6	49.0	37.0	26.5	19.2	10.4	0.40	10.2	17.6	26.5	34.0	42.4	45.1
55	0.76	11.3	19.0	32.5	60.3	147	172	139	51.4	29.3	19.9	10.5	0.41	10.5	18.1	29.4	42.2	98.5	134
60	0.74	11.4	20.1	47.6	153	208	219	207	146	36.8	20.7	10.5	0.42	10.5	18.9	34.7	125	190	203
65	0.73	11.4	21.4	117	180	229	239	226	177	97.8	21.9	10.5	0.43	10.5	19.8	91.6	165	212	224
70	0.66	11.3	33.4	137	193	243	253	240	190	125	26.2	10.5	0.44	10.4	23.6	127	180	227	239
75	0.63	11.2	44.8	144	202	255	266	252	200	134	43.1	10.5	0.57	10.4	41.4	137	189	238	251
80	0.56	11.0	46.6	149	209	263	274	261	207	140	47.1	10.5	0.65	10.4	47.1	143	195	245	258
85	0.50	10.7	47.2	150	210	265	276	265	211	142	47.9	10.4	0.72	10.4	48.5	147	201	250	262
90	0.47	10.5	47.1	151	209	263	275	263	208	140	47.7	10.3	0.75	10.4	49.2	146	199	250	262
95	0.45	10.7	47.5	151	209	263	274	261	207	140	48.1	10.3	0.80	10.8	50.2	146	198	247	259
100	0.46	11.2	48.4	150	207	259	272	261	207	140	49.4	10.8	0.88	11.6	52.2	146	197	247	259
105	0.46	11.6	48.5	150	206	258	269	259	206	139	50.0	11.3	0.99	12.3	53.2	145	195	242	254
110	0.47	12.1	48.1	144	199	250	262	250	197	135	50.0	11.6	1.09	12.8	53.0	142	190	237	248
115	0.47	12.3	37.8	135	186	235	247	236	187	127	45.9	11.9	1.11	13.1	51.1	136	184	228	237
120	0.47	12.2	25.3	118	175	224	235	224	176	116	27.8	12.1	1.13	13.6	29.7	125	170	212	220
125	0.62	12.2	24.2	51.6	150	198	210	199	154	62.6	26.1	12.2	1.44	13.9	24.6	93.8	156	198	206
130	0.77	12.1	23.2	38.7	63.0	146	172	153	75.1	37.3	24.9	12.3	1.50	13.7	23.5	40.3	108	170	180
135	0.88	11.2	22.3	34.6	44.3	56.1	62.6	57.6	45.3	33.4	24.2	11.9	1.53	13.2	22.6	35.2	45.5	65.6	75.9
140	0.96	10.2	21.0	29.6	38.9	46.9	48.9	47.5	39.8	29.6	24.1	11.1	1.72	12.4	22.6	31.7	38.8	46.1	47.2
145	0.97	9.22	18.2	26.1	30.9	40.4	42.4	41.1	34.4	27.4	21.5	10.2	1.86	11.3	21.5	28.5	33.8	40.0	41.0
150	0.95	9.05	16.2	25.2	27.6	29.0	32.3	33.3	30.0	24.7	18.4	9.81	1.97	10.1	18.3	27.4	29.9	34.6	35.5
155	1.22	9.38	14.1	21.9	27.5	30.4	30.6	29.4	26.3	19.7	15.2	9.72	2.03	9.89	14.6	22.6	28.1	31.5	32.0
160	1.48	7.49	13.1	17.7	22.2	26.7	27.3	26.6	22.1	16.4	13.5	9.33	2.02	7.80	11.7	17.6	22.1	27.0	28.0
165	1.75	4.92	13.0	14.7	16.7	19.5	20.1	19.7	16.5	12.9	12.2	5.51	2.00	4.96	12.0	13.8	16.4	19.9	21.1
170	1.80	2.67	7.30	12.8	14.5	14.3	14.4	14.3	14.0	13.0	9.48	3.94	1.97	3.19	7.07	13.0	13.6	13.9	13.6
175	0.99	1.31	1.58	3.09	5.14	7.31	8.17	8.34	7.05	5.26	3.61	1.58	0.84	1.25	3.43	6.12	8.04	10.01	10.66
180	0.47	0.58	0.58	0.56	1.18	1.62	1.28	0.89	0.07	0.09	0.63	0.53	0.36	0.68	0.63	0.73	0.87	1.04	1.09

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 19.9DEG
 Operators:CS01
 Test Date:2021-10-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 51.1%
 Test Distance:26.000m [K=1.0000]
 Remarks: B-14D-13W-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.34V I:0.0610A P:12.840W PF:0.9130 Freq:50.00Hz Lamp Flux:941.415x1 lm		
NAME: B-14D-13W-30K	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	0.84	0.84	0.84	0.84	0.84														
5	4.46	3.70	2.83	2.13	1.05														
10	9.49	7.78	5.88	4.42	2.05														
15	14.8	12.2	9.14	6.67	3.09														
20	19.9	16.7	12.5	9.02	4.14														
25	23.6	20.4	15.7	11.4	5.14														
30	24.5	21.9	18.4	13.7	6.09														
35	27.1	22.7	19.3	15.7	7.03														
40	31.1	25.6	19.8	17.2	7.92														
45	36.2	29.4	21.5	17.4	8.65														
50	42.5	33.5	23.9	17.5	9.13														
55	101	42.7	26.6	18.1	9.33														
60	190	128	31.8	18.8	9.33														
65	213	164	87.8	19.6	9.33														
70	228	179	116	22.7	9.33														
75	240	188	125	35.4	9.33														
80	245	194	129	39.2	9.33														
85	251	197	131	40.1	9.33														
90	248	196	130	40.3	9.49														
95	246	194	130	41.3	10.1														
100	245	193	130	43.1	10.6														
105	242	191	129	43.5	11.0														
110	236	187	126	43.6	11.4														
115	225	177	118	38.2	11.3														
120	210	165	108	24.2	11.4														
125	193	147	53.4	23.2	11.3														
130	161	77.5	33.8	23.0	11.2														
135	58.8	42.4	30.5	22.8	10.6														
140	45.1	37.2	27.9	22.6	10.2														
145	39.2	32.5	26.2	20.9	10.2														
150	34.2	29.8	25.4	18.8	10.4														
155	31.6	28.3	22.4	17.1	11.2														
160	27.4	23.6	18.6	15.0	12.0														
165	20.7	18.3	14.8	13.8	11.3														
170	14.0	12.4	12.0	13.5	8.38														
175	10.57	8.99	6.99	5.42	2.91														
180	0.93	0.93	0.73	0.67	0.58														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 19.9DEG
 Operators:CS01
 Test Date:2021-10-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 51.1%
 Test Distance:26.000m [K=1.0000]
 Remarks: B-14D-13W-30K