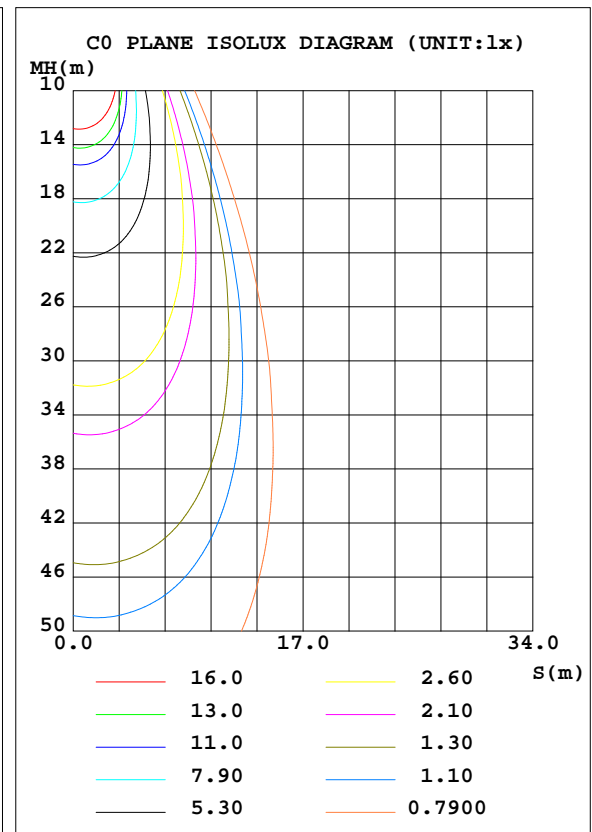
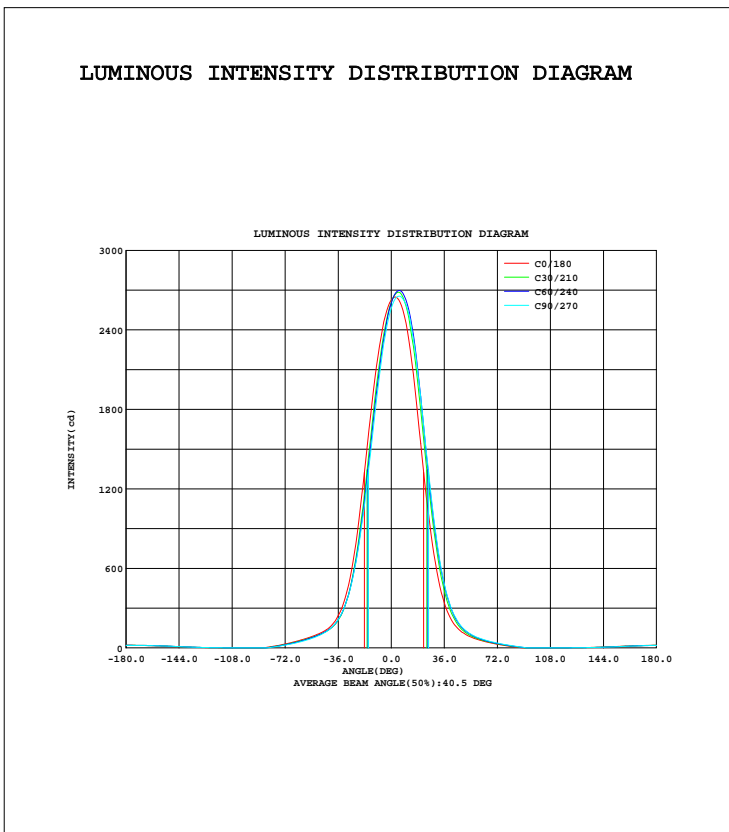


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.1V I:0.1345A P:17.12W PF:0.5534 Lamp Flux:1673.64x1 lm		
NAME: 03PAR38-17W	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 97.77 lm/W			
MODEL		I <sub>max</sub> (cd)	2697	S/MH(C0/180)	0.60
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	0.52
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1673.6	η UP, DN(C0-180)	0.6,58.7
NOMINAL FLUX(lm)	1673.64	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.8,39.8
LAMPS INSIDE	1	η up(%)	1.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230	η down(%)	98.6	CIBSE SHR MAX	0.70



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Zhong ql  
 Test Date:03 January 2020

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [K=1.0000]  
 Remarks:None

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	2452	2603	2593	2338	2121	1948	1866	2092	0- 10	230.7	230.7	13.8,13.8
20	1541	1845	1892	1475	1146	970.1	926.6	1151	10- 20	506.2	736.9	44,44
30	640.5	834.3	884.5	620.3	427.0	363.8	361.7	459.0	20- 30	420.8	1158	69.2,69.2
40	228.9	301.2	322.2	235.2	175.3	158.1	158.7	184.3	30- 40	225.0	1383	82.6,82.6
50	105.8	125.4	136.2	114.8	102.7	94.07	88.34	94.64	40- 50	117.9	1501	89.7,89.7
60	58.94	66.99	73.04	68.29	63.78	56.86	50.98	53.21	50- 60	73.28	1574	94,94
70	32.02	36.96	41.32	38.67	34.40	29.10	25.49	27.27	60- 70	45.88	1620	96.8,96.8
80	13.20	17.08	19.99	16.64	12.20	8.605	6.913	9.316	70- 80	23.70	1643	98.2,98.2
90	0.3309	2.367	3.724	0.9394	0.1786	0.1910	0.1924	0.2111	80- 90	6.328	1650	98.6,98.6
100	0.3379	0.3024	0.2916	0.2985	0.3860	0.4349	0.4546	0.4169	90-100	0.3781	1650	98.6,98.6
110	0.6585	0.5964	0.5643	0.5948	0.7468	0.8473	0.9019	0.8004	100-110	0.5539	1651	98.6,98.6
120	1.175	1.063	1.031	1.121	1.453	1.731	1.848	1.501	110-120	0.9860	1652	98.7,98.7
130	2.318	2.029	1.968	2.303	3.130	3.795	4.016	3.115	120-130	1.777	1653	98.8,98.8
140	4.922	4.233	4.047	4.863	6.579	7.634	7.885	6.365	130-140	3.198	1657	99,99
150	9.138	8.123	7.803	8.983	11.37	12.54	12.70	10.88	140-150	4.911	1662	99.3,99.3
160	13.99	12.92	12.48	13.60	15.99	16.74	16.63	15.17	150-160	5.713	1667	99.6,99.6
170	17.73	17.04	16.59	17.03	18.82	18.85	18.41	17.58	160-170	4.583	1672	99.9,99.9
180	19.78	19.49	19.03	18.74	19.88	19.51	19.00	18.74	170-180	1.751	1674	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1449.6 lm

%lum = 86.6%

%lamp = 86.6%

Conical surface Flux(120deg): 1573.9 lm

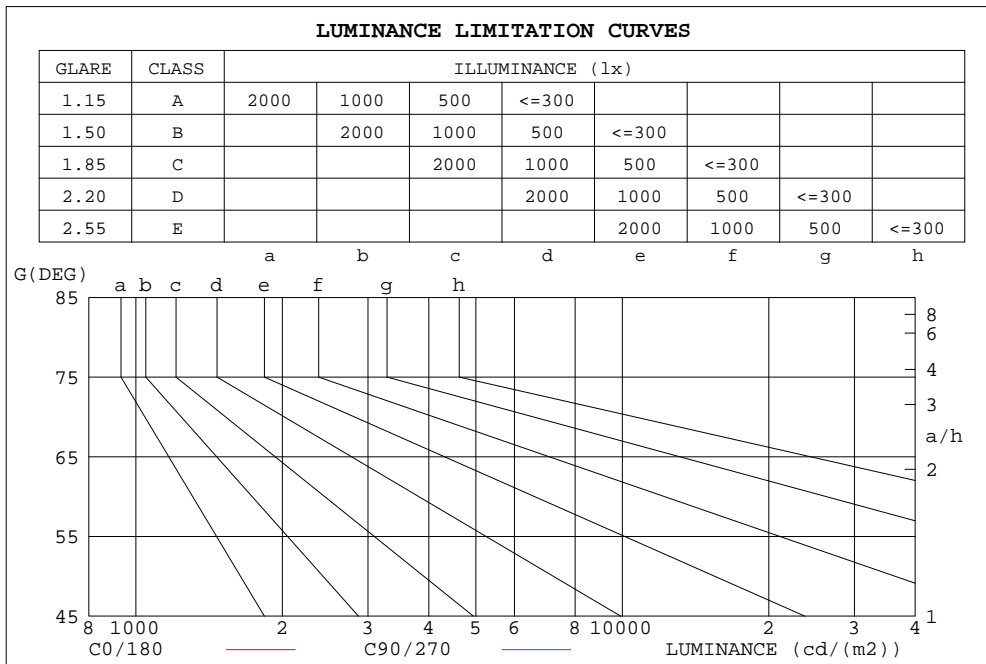
%lum = 94.0%

%lamp = 94.0%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:03 January 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES



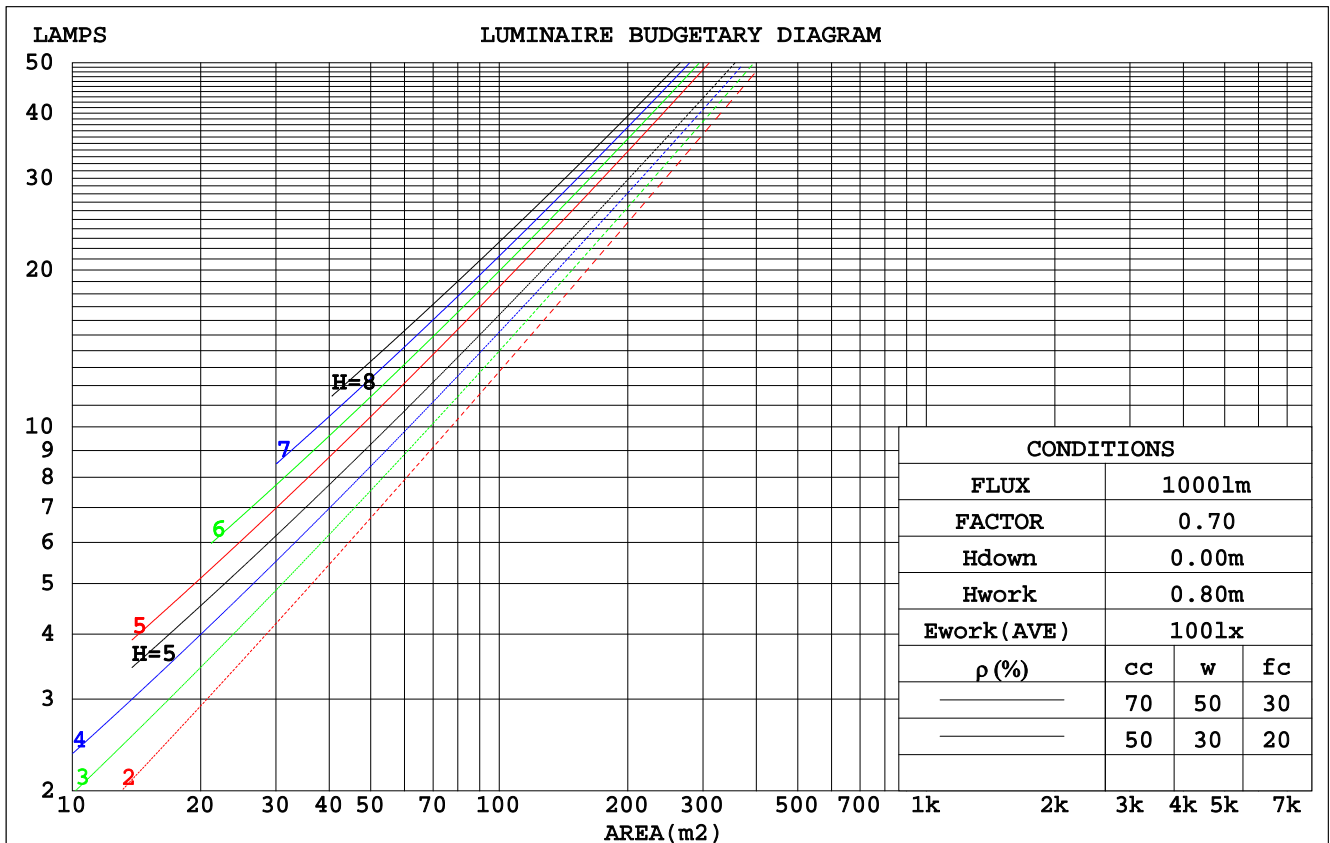
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	56938	108523
80	63347	95953
75	70174	95899
70	78017	100684
65	87075	108887
60	98230	121726
55	112930	141764
50	137135	176548
45	175492	237753

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 03 January 2020

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.10	1.07	1.04	1.07	1.05	1.03	1.03	1.01	.99	.99	.97	.96	.95	.94	.93	.91
2.0	1.01	.97	.93	.99	.95	.92	.96	.93	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.94	.89	.84	.92	.88	.84	.90	.86	.82	.87	.84	.81	.85	.82	.79	.78
4.0	.88	.82	.77	.86	.81	.77	.84	.79	.76	.82	.78	.75	.80	.77	.74	.72
5.0	.82	.76	.72	.81	.75	.71	.79	.74	.70	.77	.73	.70	.76	.72	.69	.67
6.0	.77	.71	.67	.76	.71	.66	.75	.70	.66	.73	.69	.65	.72	.68	.65	.63
7.0	.73	.67	.62	.72	.66	.62	.71	.65	.62	.69	.65	.61	.68	.64	.61	.59
8.0	.69	.63	.59	.68	.62	.59	.67	.62	.58	.66	.61	.58	.65	.61	.58	.56
9.0	.65	.59	.55	.65	.59	.55	.64	.59	.55	.63	.58	.55	.62	.58	.54	.53
10.0	.62	.56	.52	.62	.56	.52	.61	.56	.52	.60	.55	.52	.59	.55	.52	.50



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 03 January 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks:

## WEC AND CCEC

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.195	.111	.035	.188	.107	.034	.174	.100	.032	.162	.093	.030	.151	.087	.028	
2.0	.185	.101	.031	.179	.098	.030	.167	.093	.029	.157	.088	.028	.147	.083	.026	
3.0	.174	.093	.028	.169	.090	.027	.159	.086	.026	.150	.082	.025	.141	.078	.024	
4.0	.164	.085	.025	.159	.083	.025	.150	.080	.024	.142	.077	.023	.135	.073	.022	
5.0	.154	.079	.023	.150	.077	.022	.143	.074	.022	.136	.072	.021	.129	.069	.021	
6.0	.146	.073	.021	.142	.072	.021	.136	.069	.020	.129	.067	.020	.124	.065	.019	
7.0	.138	.068	.019	.135	.067	.019	.129	.065	.019	.124	.063	.018	.118	.061	.018	
8.0	.131	.064	.018	.128	.063	.018	.123	.061	.018	.118	.060	.017	.113	.058	.017	
9.0	.125	.060	.017	.122	.060	.017	.118	.058	.016	.113	.057	.016	.109	.055	.016	
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.108	.054	.015	.105	.053	.015	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.201	.201	.201	.172	.172	.172	.117	.117	.117	.067	.067	.067	.022	.022	.022	
1.0	.183	.168	.154	.157	.144	.133	.107	.099	.092	.062	.057	.053	.020	.018	.017	
2.0	.169	.143	.122	.145	.123	.105	.099	.085	.074	.057	.050	.043	.018	.016	.014	
3.0	.157	.125	.099	.135	.108	.086	.092	.075	.060	.053	.044	.035	.017	.014	.012	
4.0	.147	.110	.082	.126	.095	.071	.087	.066	.050	.050	.039	.030	.016	.013	.010	
5.0	.138	.099	.070	.119	.085	.061	.082	.060	.043	.047	.035	.025	.015	.011	.008	
6.0	.130	.090	.060	.112	.078	.052	.077	.054	.037	.045	.032	.022	.014	.010	.007	
7.0	.124	.082	.053	.106	.071	.046	.074	.050	.033	.043	.029	.019	.014	.010	.006	
8.0	.118	.076	.047	.101	.066	.041	.070	.046	.029	.041	.027	.017	.013	.009	.006	
9.0	.112	.071	.042	.097	.061	.037	.067	.043	.026	.039	.025	.016	.013	.008	.005	
10.0	.107	.066	.039	.093	.057	.034	.064	.040	.024	.037	.024	.014	.012	.008	.005	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 03 January 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	27.0	28.0	27.2	28.2	28.4	28.1	29.0	28.3	29.2	29.4
3H	27.5	28.4	27.8	28.7	28.9	28.6	29.5	28.9	29.8	30.0
4H	27.7	28.6	28.1	28.9	29.1	28.9	29.8	29.2	30.0	30.3
6H	27.9	28.7	28.2	29.0	29.3	29.2	30.0	29.5	30.2	30.5
8H	28.0	28.7	28.3	29.0	29.3	29.3	30.1	29.6	30.3	30.6
12H	28.0	28.7	28.3	29.0	29.3	29.4	30.1	29.7	30.4	30.7
4H 2H	27.2	28.1	27.5	28.3	28.6	28.2	29.0	28.5	29.3	29.5
3H	27.9	28.7	28.3	29.0	29.3	28.9	29.6	29.2	29.9	30.2
4H	28.3	29.0	28.7	29.3	29.6	29.3	30.0	29.7	30.3	30.6
6H	28.6	29.2	29.0	29.5	29.9	29.7	30.3	30.1	30.6	31.0
8H	28.7	29.2	29.1	29.6	30.0	29.9	30.4	30.3	30.8	31.2
12H	28.7	29.2	29.2	29.6	30.1	30.0	30.5	30.5	30.9	31.4
8H 4H	28.4	29.0	28.8	29.4	29.8	29.4	29.9	29.8	30.3	30.7
6H	28.8	29.3	29.3	29.7	30.2	29.9	30.3	30.3	30.8	31.2
8H	29.0	29.4	29.5	29.9	30.3	30.2	30.6	30.6	31.0	31.5
12H	29.2	29.5	29.7	30.0	30.5	30.4	30.8	30.9	31.2	31.7
12H 4H	28.4	28.9	28.9	29.3	29.8	29.4	29.9	29.8	30.3	30.7
6H	28.9	29.3	29.4	29.7	30.2	29.9	30.3	30.4	30.8	31.2
8H	29.1	29.5	29.6	29.9	30.4	30.2	30.5	30.7	31.0	31.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.0					+ 0.8 / - 0.9				
1.5H	+ 1.2 / - 0.9					+ 1.6 / - 0.7				
2.0H	+ 1.0 / - 0.8					+ 1.2 / - 0.6				

CIE Pub.117 Corrected 1674 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.8)

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:03 January 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.640m [K=1.0000]  
Remarks:

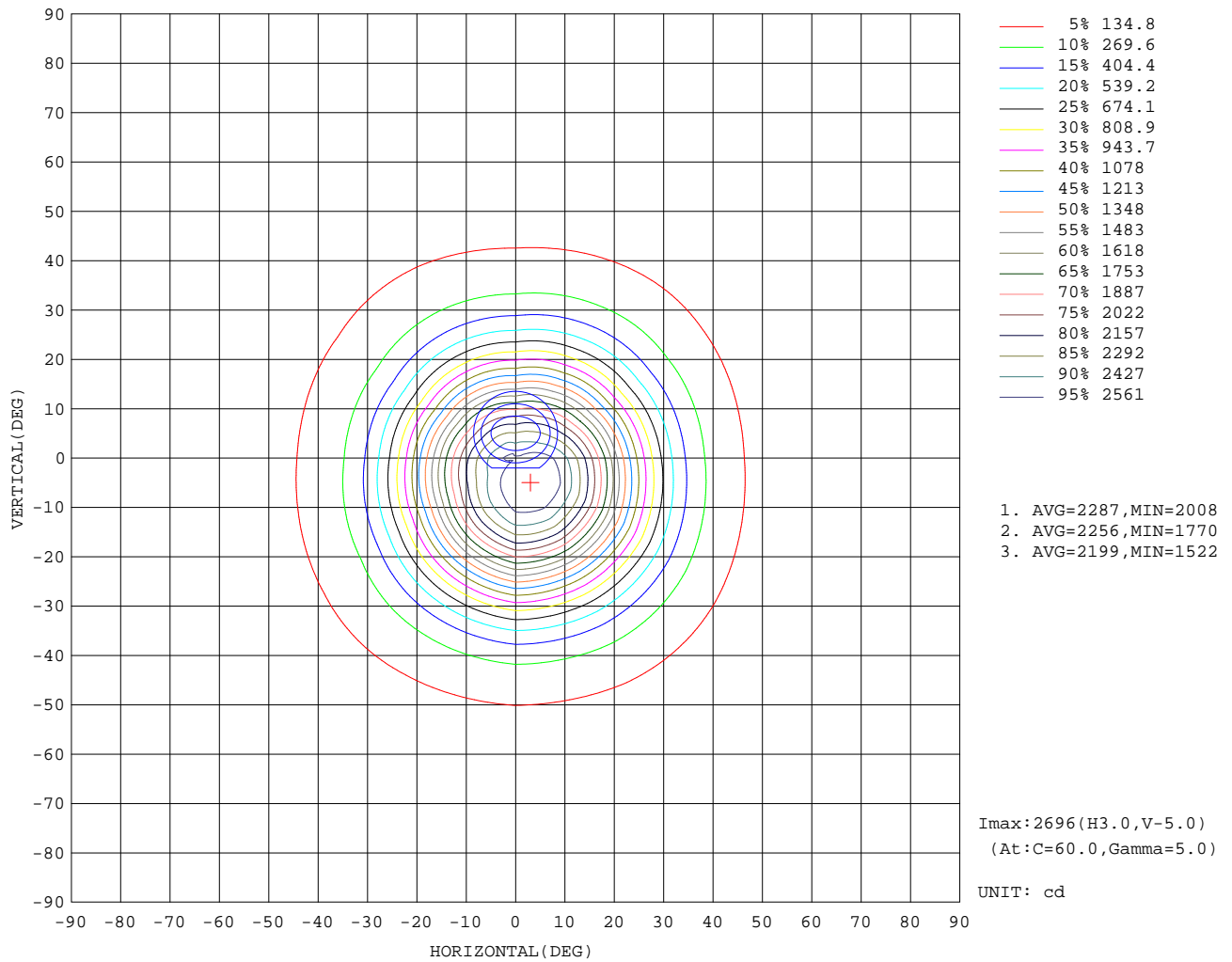
## UTILIZATION FACTORS TABLE

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	73	69	80	73	69	79	73	69	64
0.80	89	82	77	88	81	77	87	81	77	72
1.00	94	87	83	93	87	83	91	87	82	77
1.25	99	92	88	97	92	88	95	90	87	82
1.50	102	96	92	100	95	91	98	94	90	85
2.00	105	100	97	104	99	96	101	97	94	88
2.50	108	103	99	106	102	98	102	99	96	90
3.00	109	105	102	107	104	101	104	101	99	91
4.00	112	109	106	110	107	104	106	103	101	94
5.00	113	111	108	111	109	107	107	105	103	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 03 January 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

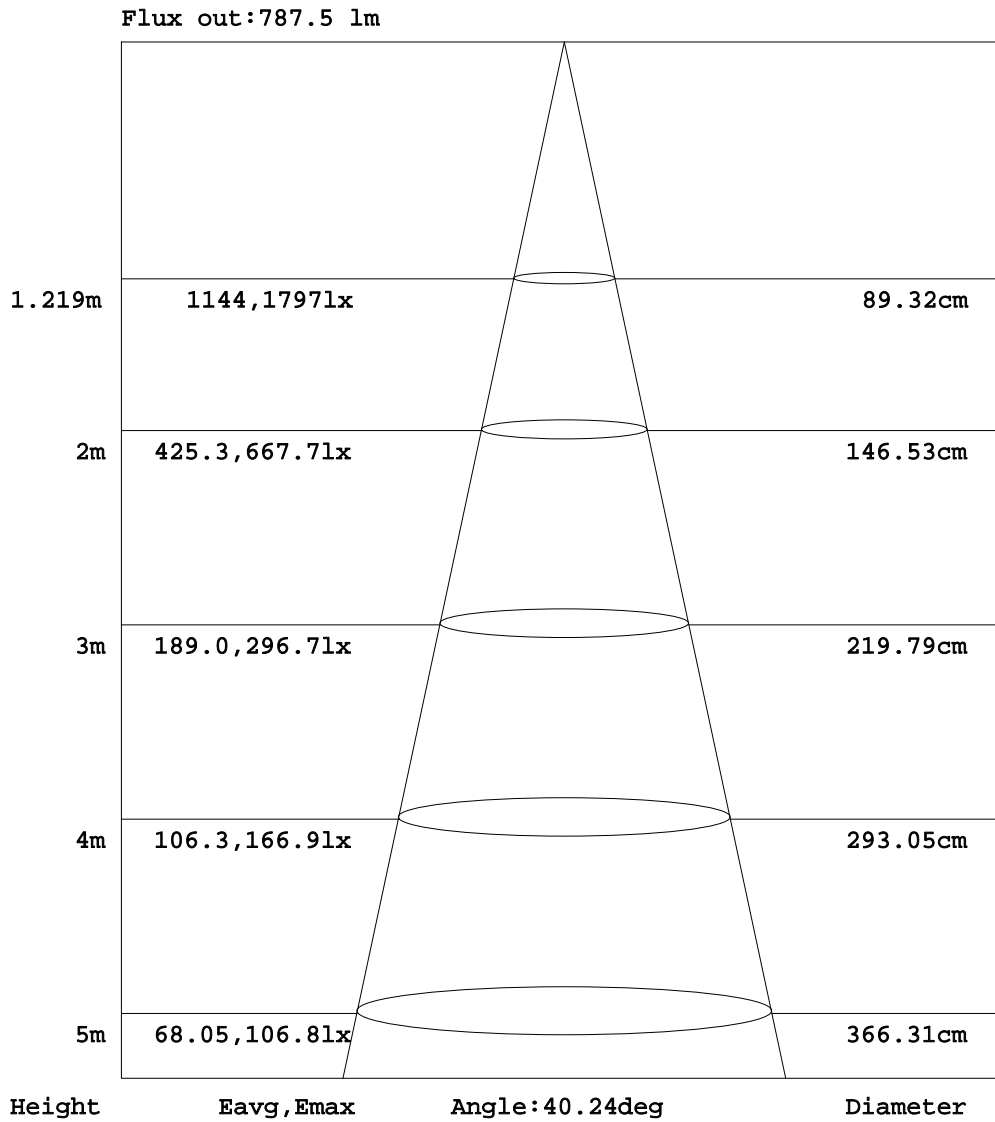


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 03 January 2020

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks:



AAI Figure

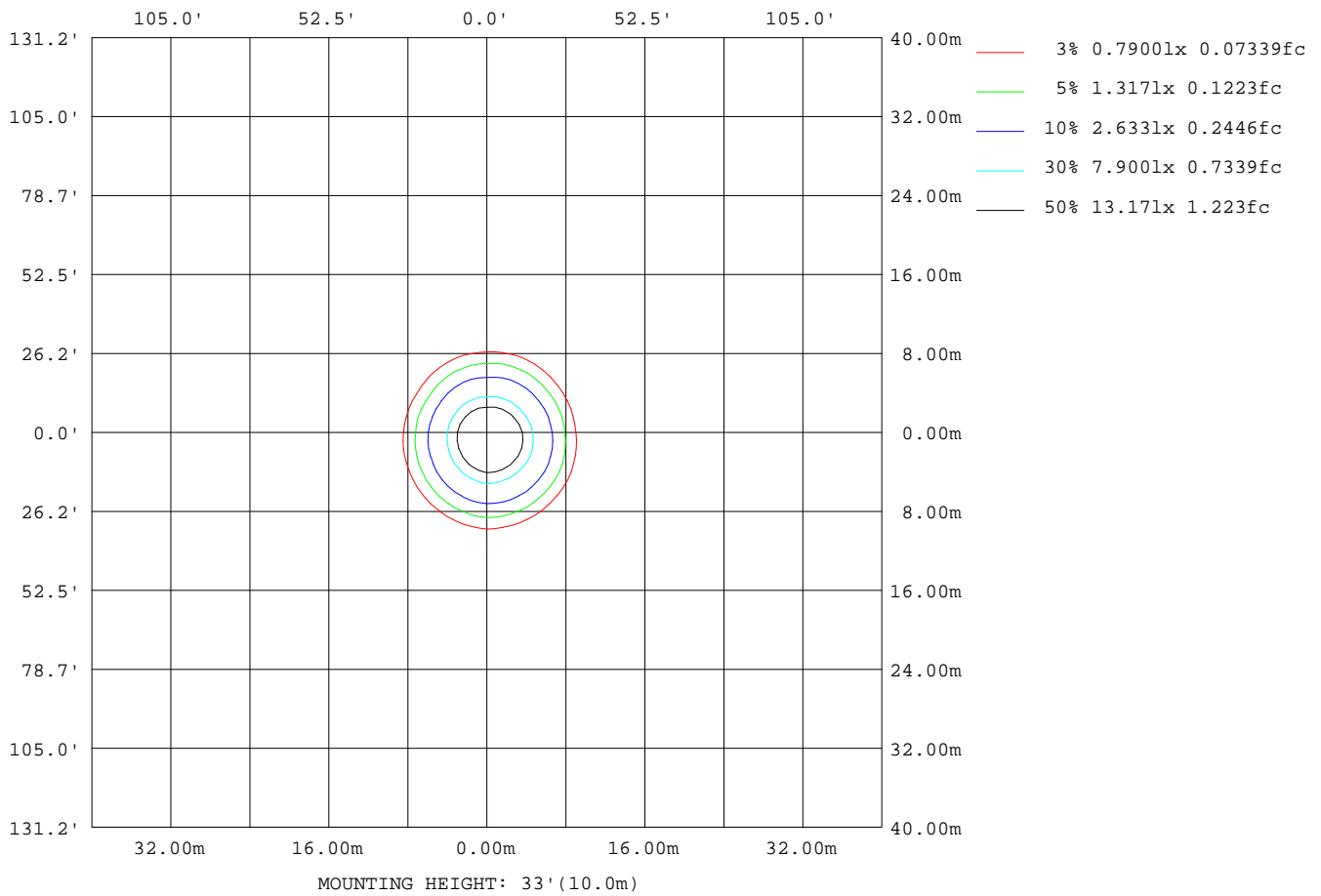


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 03 January 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 03 January 2020

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:230.1V I:0.1345A P:17.12W PF:0.5534 Lamp Flux:1673.64x1 lm		
NAME: PAR38	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	Shielding Angle:

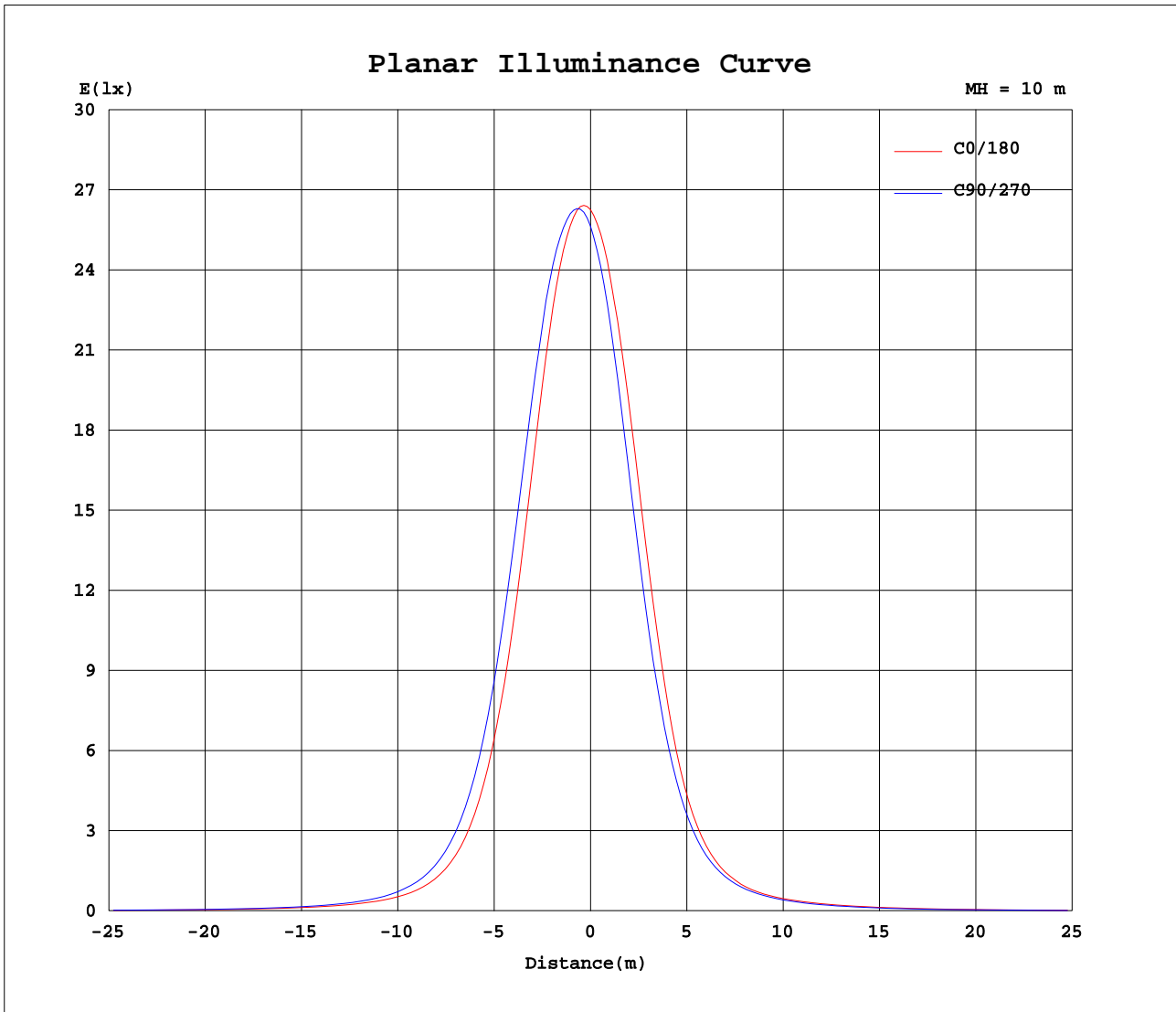
AvgL	cd/m2
L_0~180(65)av	91043
L_0~180(75)av	70976
L_0~180(85)av	44975
L_90~270(65)av	91008
L_90~270(75)av	73152
L_90~270(85)av	55107
L_45(65)av	90335
L_45(75)av	71114
L_45(85)av	47789

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:03 January 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 03 January 2020

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 7.640m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	2625	2608	2603	2563	2559	2553	2625	2608	2603	2563	2559	2553							
5	2628	2685	2697	2654	2581	2484	2461	2367	2329	2297	2359	2462							
10	2452	2582	2625	2593	2437	2239	2121	1977	1919	1866	1998	2187							
15	2067	2278	2365	2331	2108	1831	1651	1479	1419	1375	1526	1744							
20	1541	1795	1895	1892	1620	1330	1146	992	948	927	1056	1246							
25	1038	1260	1340	1363	1119	873	711	608	594	583	680	809							
30	641	805	863	884	708	532	427	363	364	362	422	496							
35	378	482	528	537	428	322	263	227	232	232	263	303							
40	229	286	316	322	262	209	175	157	159	159	175	194							
45	149	178	197	202	170	145	130	119	120	116	124	133							
50	106	120	131	136	120	109	103	94.8	93.3	88.3	92.4	96.8							
55	77.7	86.2	94.1	97.6	91.0	85.0	81.5	75.1	72.5	67.6	70.0	72.4							
60	58.9	64.3	69.6	73.0	69.8	66.8	63.8	58.3	55.4	51.0	52.5	54.0							
65	44.2	48.4	51.9	55.2	53.3	51.3	48.2	43.4	40.7	37.1	38.2	39.6							
70	32.0	35.7	38.3	41.3	39.6	37.7	34.4	30.1	28.1	25.5	26.5	28.1							
75	21.8	25.1	27.4	29.8	28.0	25.6	22.3	18.6	17.3	15.7	16.6	18.3							
80	13.2	16.1	18.1	20.0	18.0	15.2	12.2	9.13	8.08	6.91	8.36	10.3							
85	5.96	8.48	10.0	11.4	9.40	6.47	3.45	0.95	0.36	0.18	1.17	3.36							
90	0.33	1.91	2.82	3.72	1.72	0.16	0.18	0.17	0.21	0.19	0.26	0.16							
95	0.23	0.23	0.19	0.20	0.17	0.22	0.27	0.27	0.33	0.32	0.32	0.24							
100	0.34	0.33	0.28	0.29	0.27	0.33	0.39	0.40	0.47	0.45	0.46	0.38							
105	0.48	0.47	0.43	0.41	0.40	0.46	0.55	0.57	0.65	0.65	0.63	0.53							
110	0.66	0.63	0.57	0.56	0.56	0.63	0.75	0.80	0.90	0.90	0.85	0.75							
115	0.88	0.83	0.77	0.77	0.78	0.86	1.03	1.14	1.25	1.28	1.17	1.00							
120	1.17	1.09	1.03	1.03	1.06	1.18	1.45	1.66	1.80	1.85	1.62	1.38							
125	1.62	1.47	1.42	1.40	1.49	1.68	2.12	2.47	2.65	2.73	2.34	1.94							
130	2.32	2.06	2.00	1.97	2.16	2.45	3.13	3.68	3.91	4.02	3.42	2.81							
135	3.40	2.97	2.88	2.81	3.13	3.61	4.61	5.25	5.69	5.74	4.94	4.09							
140	4.92	4.30	4.17	4.05	4.52	5.20	6.58	7.43	7.84	7.89	6.92	5.81							
145	6.84	6.11	5.88	5.71	6.31	7.22	8.88	9.84	10.3	10.3	9.19	7.88							
150	9.14	8.29	7.96	7.80	8.46	9.51	11.4	12.3	12.7	12.7	11.6	10.2							
155	11.6	10.7	10.3	10.1	10.8	11.9	13.8	14.7	15.0	14.9	13.8	12.5							
160	14.0	13.1	12.7	12.5	13.1	14.1	16.0	16.6	16.8	16.6	15.7	14.6							
165	16.1	15.3	15.0	14.7	15.2	15.9	17.7	18.0	18.1	17.8	17.1	16.2							
170	17.7	17.2	16.9	16.6	16.8	17.2	18.8	18.9	18.8	18.4	17.9	17.3							
175	19.0	18.7	18.3	18.0	18.0	18.2	19.6	19.4	19.3	18.8	18.5	18.1							
180	19.8	19.7	19.3	19.0	18.8	18.7	19.9	19.6	19.4	19.0	18.8	18.7							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:03 January 2020

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [K=1.0000]  
 Remarks: