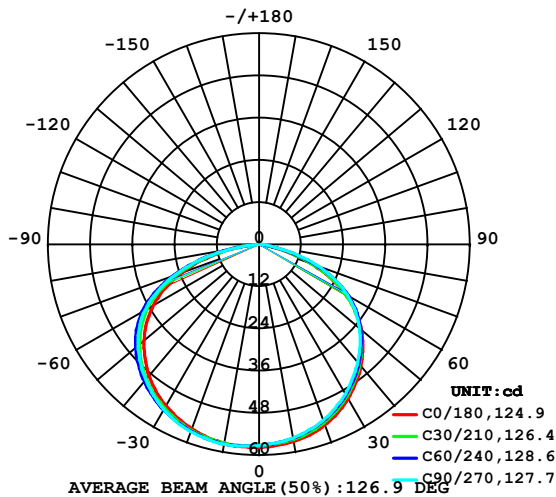


## LUMINAIRE PHOTOMETRIC TEST REPORT

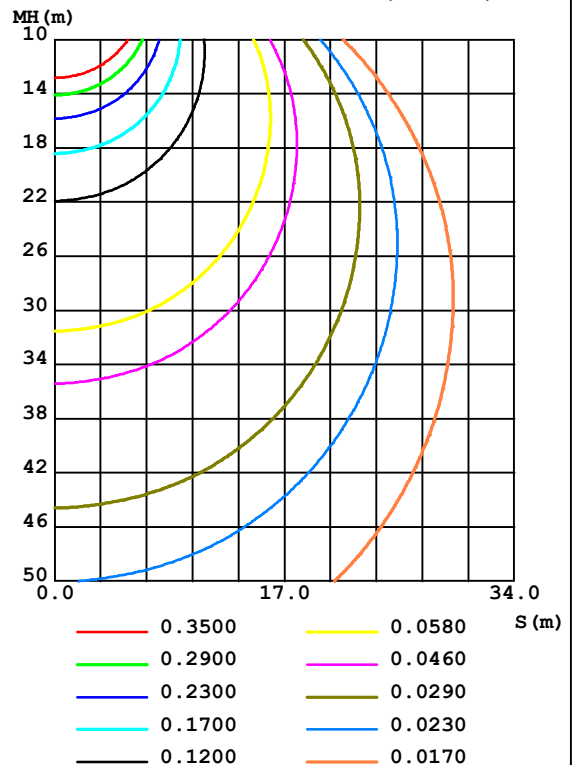
Test:U:24.01V I:0.3165A P:7.600W PF:1.0000 Lamp Flux:186.355x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:5050RGB 36LED	DIM.: 1000*10*1MM	SERIAL No.:201511101
MFR.:	SUR.:1000*10mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 24.52 lm/W			
MODEL:02T50XX036B-24 (WCP) -10		Imax(cd)	58.09	S/MH(C0/180)	1.37
NOMINAL POWER(W)	7.5	LOR(%)	100.0	S/MH(C90/270)	1.41
RATED VOLTAGE(V)	DC 24	TOTAL FLUX(lm)	186.35	$\eta$ UP,DN(C0-180)	0.0,46.8
NOMINAL FLUX(lm)	186.355	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,53.2
LAMPS INSIDE	1	$\eta$ up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	$\eta$ down(%)	100.0	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2015-11-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

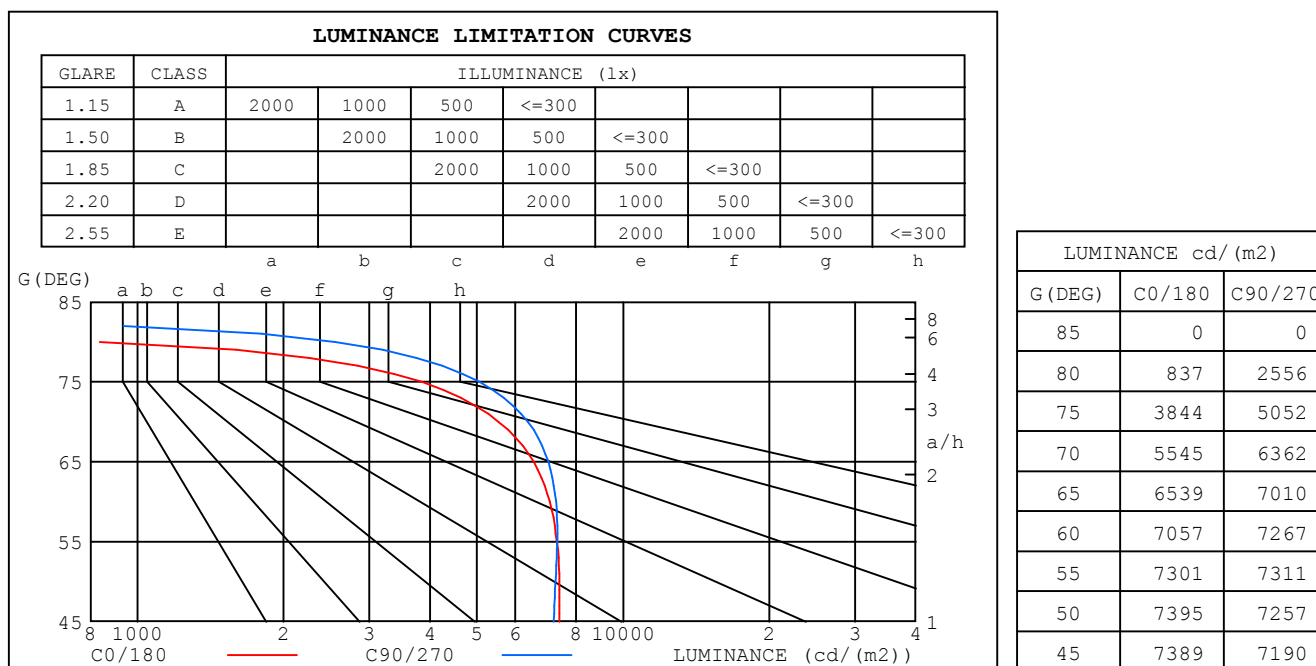
## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	56.96	56.20	55.96	56.89	57.47	57.58	57.67	57.94	0- 10	5.470	5.470	2.94,2.94
20	54.75	53.84	53.29	54.67	55.91	56.52	56.74	56.63	10- 20	15.93	21.40	11.5,11.5
30	50.71	49.87	49.15	51.17	53.07	54.20	54.24	53.59	20- 30	24.84	46.24	24.8,24.8
40	45.11	44.52	43.69	46.22	48.76	50.56	50.27	48.89	30- 40	31.20	77.45	41.6,41.6
50	38.03	37.81	37.32	39.79	42.75	45.28	44.98	42.71	40- 50	34.25	111.7	59.9,59.9
60	28.23	29.20	29.07	31.29	34.68	37.83	37.52	34.40	50- 60	33.30	145.0	77.8,77.8
70	15.17	16.66	17.41	19.05	23.02	25.31	25.26	21.51	60- 70	26.67	171.7	92.1,92.1
80	1.162	2.418	3.551	4.469	7.733	8.536	8.761	5.203	70- 80	13.50	185.2	99.4,99.4
90	0	0	0	0	0	0	0	0	80- 90	1.186	186.4	100,100
100	0	0	0	0	0	0	0	0	90-100	0	186.4	100,100
110	0	0	0	0	0	0	0	0	100-110	0	186.4	100,100
120	0	0	0	0	0	0	0	0	110-120	0	186.4	100,100
130	0	0	0	0	0	0	0	0	120-130	0	186.4	100,100
140	0	0	0	0	0	0	0	0	130-140	0	186.4	100,100
150	0	0	0	0	0	0	0	0	140-150	0	186.4	100,100
160	0	0	0	0	0	0	0	0	150-160	0	186.4	100,100
170	0	0	0	0	0	0	0	0	160-170	0	186.4	100,100
180	0	0	0	0	0	0	0	0	170-180	0	186.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2015-11-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:4.950m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

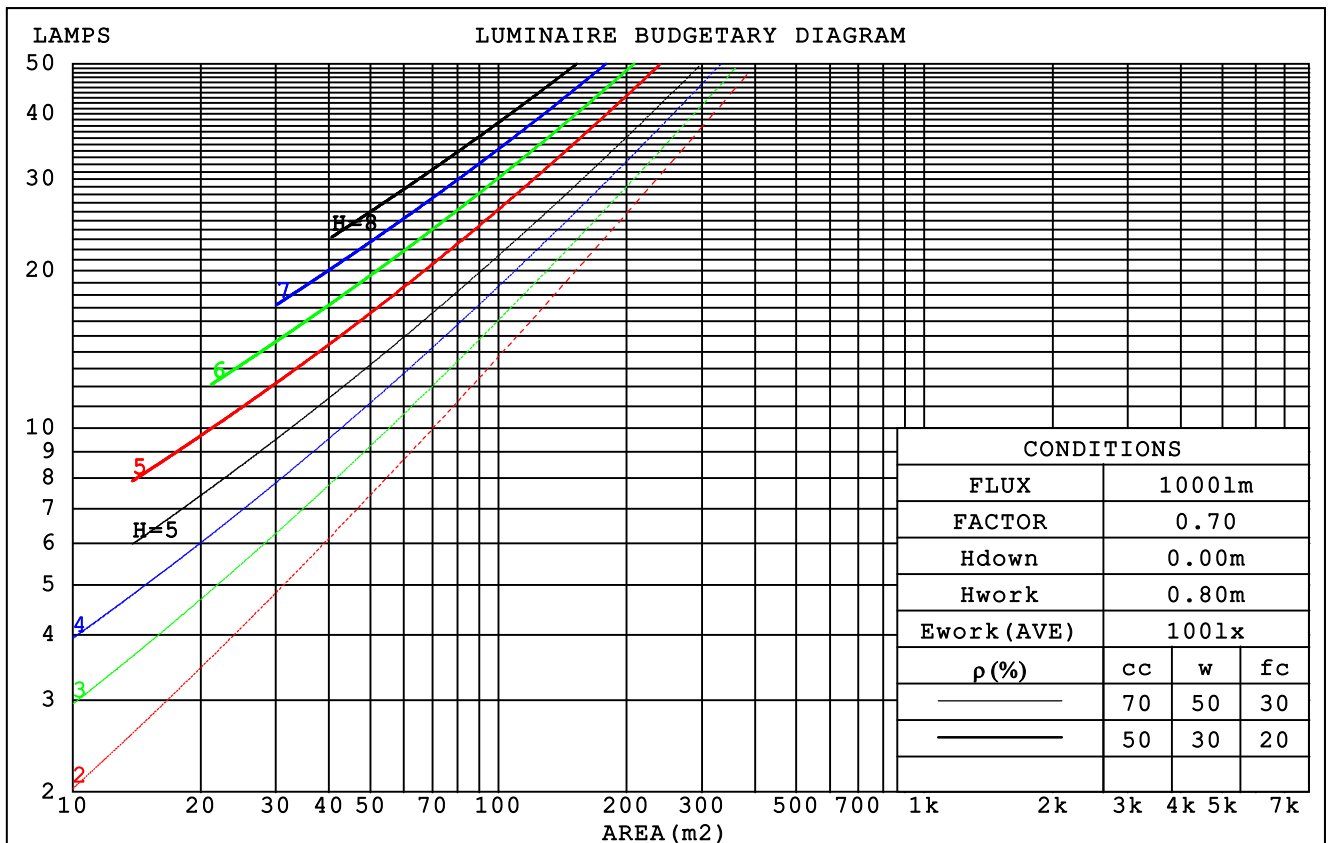


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2015-11-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity: 65.0%  
Test Distance: 4.950m [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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.04	.00	.96	1.02	.98	.94	.98	.94	.91	.94	.91	.89	.90	.88	.86	.84
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.69	.60	.53	.68	.59	.53	.65	.58	.52	.63	.57	.51	.61	.55	.51	.49
5.0	.62	.52	.46	.60	.52	.45	.58	.51	.45	.56	.50	.44	.54	.48	.44	.42
6.0	.55	.46	.39	.54	.46	.39	.52	.45	.39	.51	.44	.38	.49	.43	.38	.36
7.0	.50	.41	.35	.49	.40	.34	.47	.40	.34	.46	.39	.34	.45	.38	.34	.32
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.29	.25	.36	.29	.24	.35	.29	.24	.23



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

### WEC AND CCEC

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.306	.174	.055	.299	.171	.054	.286	.164	.052	.274	.158	.051	.262	.152	.049		
2.0	.294	.161	.049	.288	.159	.049	.276	.154	.048	.266	.149	.047	.256	.145	.046		
3.0	.274	.146	.044	.269	.144	.043	.259	.140	.043	.249	.136	.042	.240	.133	.041		
4.0	.254	.132	.039	.249	.130	.039	.240	.127	.038	.231	.124	.037	.223	.121	.037		
5.0	.235	.120	.035	.231	.118	.034	.222	.116	.034	.215	.113	.034	.208	.111	.033		
6.0	.218	.109	.031	.214	.108	.031	.207	.106	.031	.200	.104	.031	.193	.102	.030		
7.0	.203	.100	.028	.199	.099	.028	.193	.097	.028	.186	.096	.028	.181	.094	.028		
8.0	.189	.092	.026	.186	.092	.026	.180	.090	.026	.175	.088	.026	.169	.087	.025		
9.0	.177	.086	.024	.174	.085	.024	.169	.084	.024	.164	.082	.024	.159	.081	.023		
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.150	.076	.022		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.136	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.151	.091	.046	.129	.079	.040	.089	.055	.029	.052	.032	.017	.017	.011	.006	
6.0	.144	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-10

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [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	19.6	21.2	19.9	21.4	21.6	19.8	21.3	20.0	21.5	21.7
3H	20.9	22.3	21.2	22.6	22.8	21.3	22.7	21.6	23.0	23.2
4H	21.2	22.6	21.5	22.8	23.1	21.7	23.1	22.0	23.3	23.6
6H	21.2	22.5	21.5	22.8	23.0	21.8	23.1	22.2	23.4	23.7
8H	21.1	22.4	21.5	22.7	23.0	21.8	23.0	22.1	23.3	23.6
12H	21.1	22.3	21.4	22.6	22.9	21.7	22.9	22.1	23.2	23.5
4H 2H	20.3	21.6	20.6	21.9	22.2	20.4	21.8	20.7	22.0	22.3
3H	21.7	22.9	22.0	23.2	23.5	22.0	23.2	22.4	23.5	23.8
4H	22.0	23.1	22.4	23.4	23.8	22.5	23.6	22.9	24.0	24.3
6H	22.0	23.0	22.4	23.4	23.7	22.7	23.7	23.1	24.0	24.4
8H	22.0	22.9	22.4	23.3	23.6	22.7	23.6	23.1	23.9	24.3
12H	22.0	22.8	22.4	23.2	23.6	22.6	23.5	23.1	23.8	24.2
8H 4H	22.2	23.1	22.6	23.4	23.8	22.6	23.5	23.1	23.9	24.3
6H	22.2	22.9	22.6	23.4	23.8	22.8	23.6	23.3	24.0	24.4
8H	22.2	22.8	22.6	23.2	23.7	22.8	23.5	23.3	23.9	24.3
12H	22.1	22.7	22.6	23.1	23.6	22.8	23.3	23.3	23.8	24.3
12H 4H	22.1	22.9	22.6	23.3	23.7	22.6	23.4	23.0	23.8	24.2
6H	22.2	22.8	22.6	23.3	23.7	22.8	23.5	23.3	23.9	24.3
8H	22.1	22.7	22.6	23.2	23.6	22.8	23.3	23.3	23.8	24.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.5				

CIE Pub.117 Corrected 186.4 lm Total Lamp Luminous Flux. (8log(F/F0) = -5.8)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-10

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

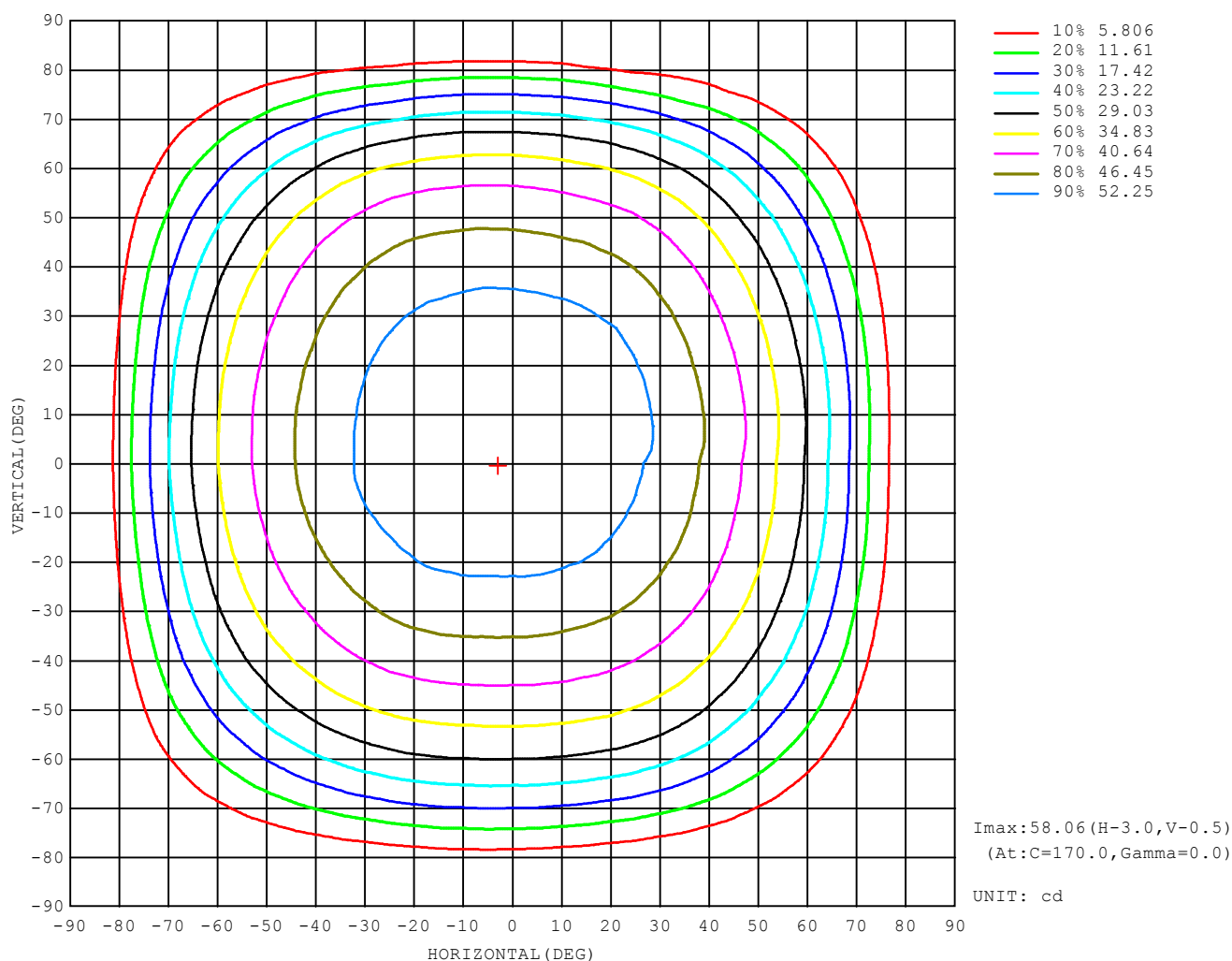
## UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	43	36	54	43	36	30
0.80	66	54	46	65	53	46	63	53	46	39
1.00	75	63	56	73	63	55	71	64	55	47
1.25	82	71	64	80	70	63	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	61
2.00	94	86	79	93	84	78	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	101	96	104	99	95	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

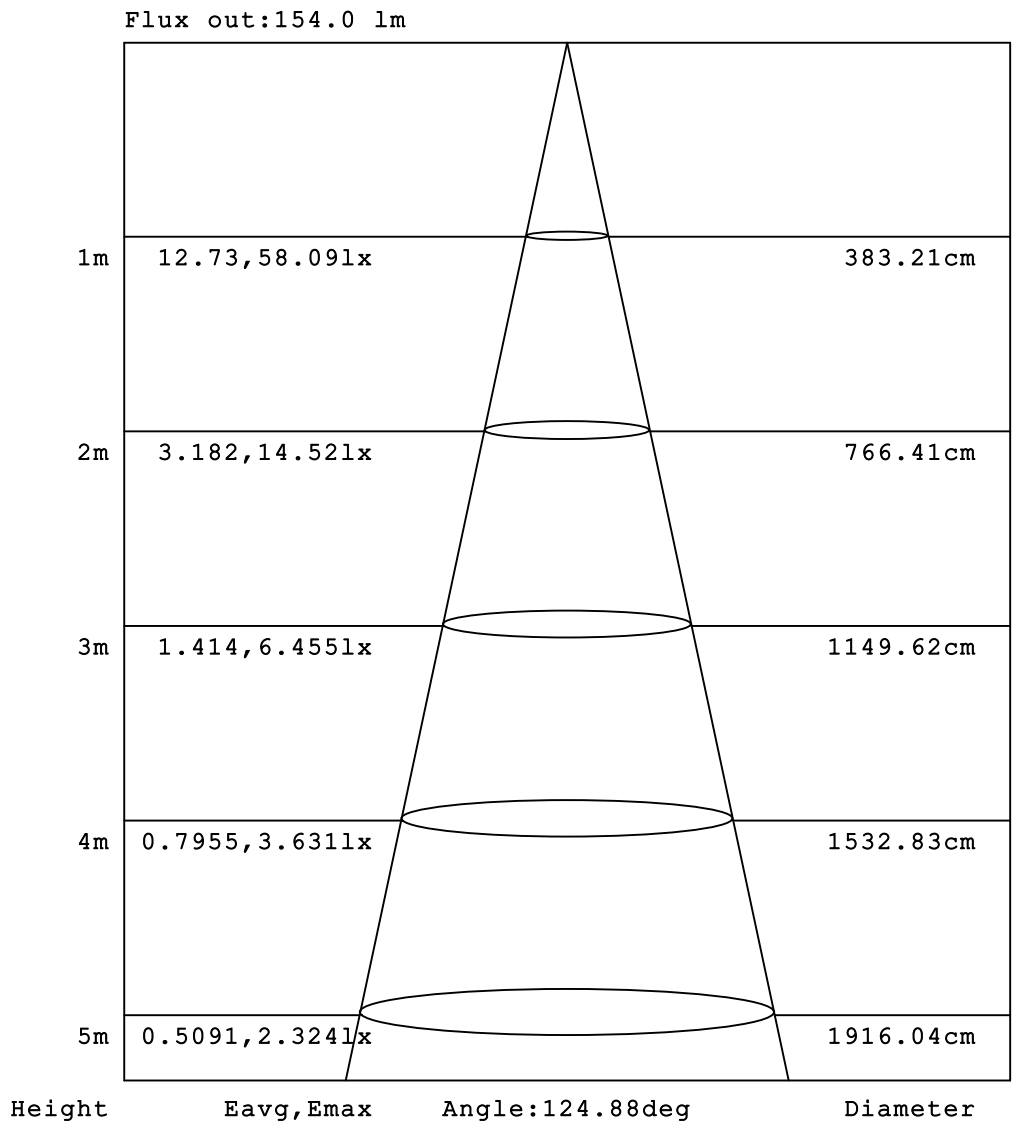


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2015-11-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity: 65.0%  
Test Distance: 4.950m [K=1.0000]  
Remarks:



## AAI Figure

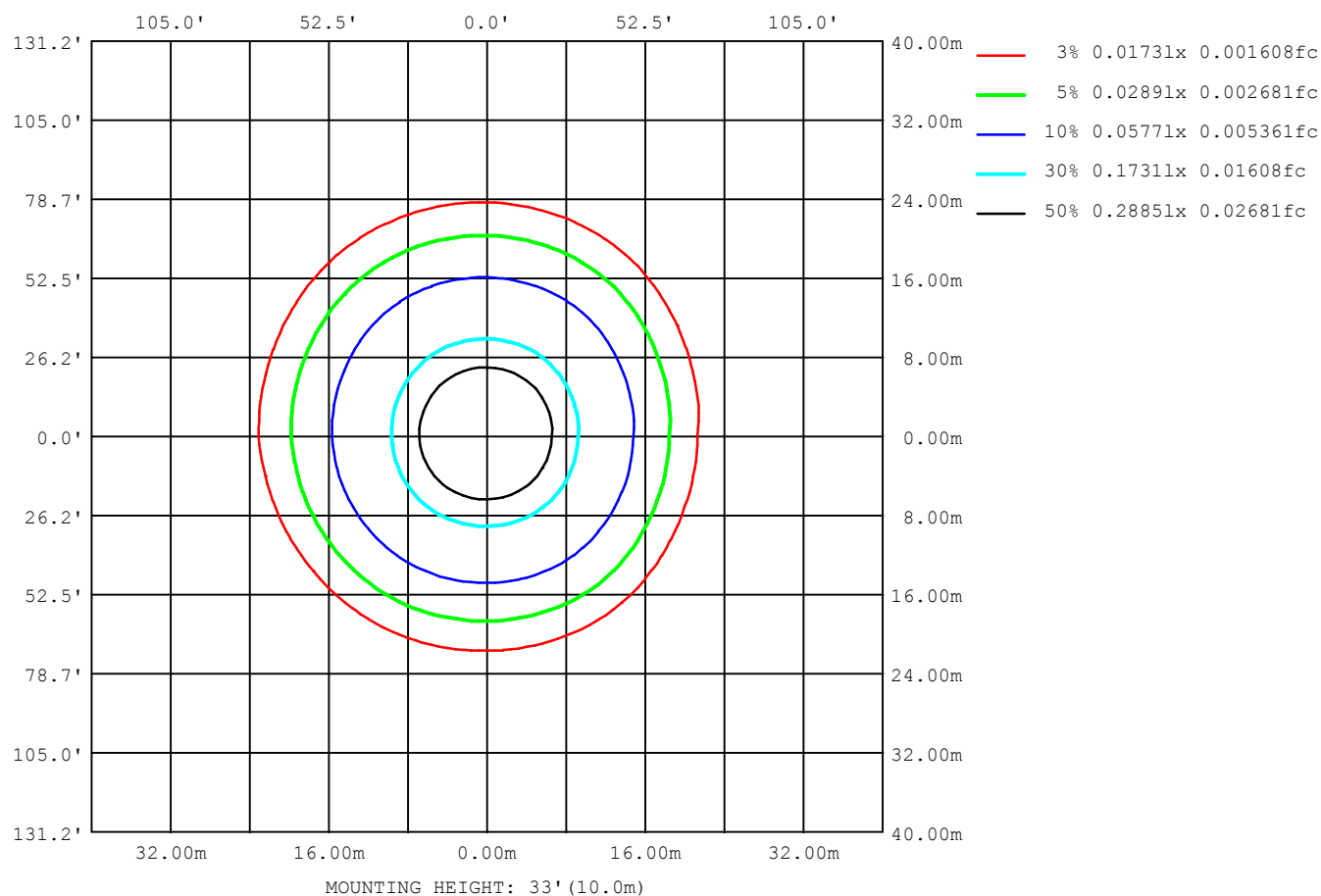


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2015-11-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2015-11-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity: 65.0%  
Test Distance: 4.950m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:24.01V I:0.3165A P:7.600W PF:1.0000 Lamp Flux:186.355x1 lm		
NAME: LED Strip	TYPE:Indoor lighting	WEIGHT:
SPEC.:5050RGB 36LED	DIM.: 1000*10*1MM	SERIAL No.:201511101
MFR.:	SUR.:1000*10mm	Shielding Angle:

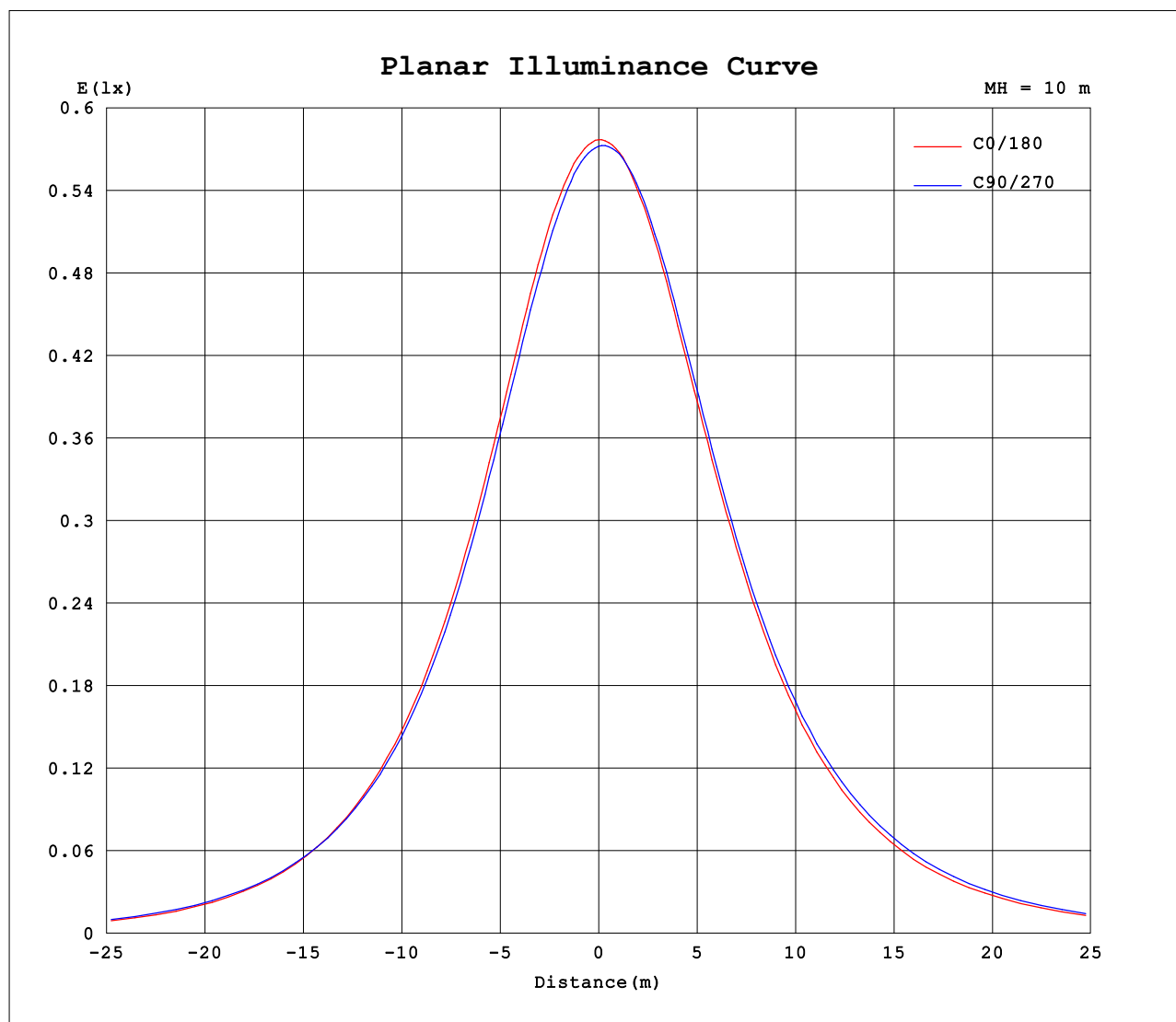
AvgL	cd/m2
L_0~180 (65) av	7620
L_0~180 (75) av	5679
L_0~180 (85) av	406
L_90~270 (65) av	8249
L_90~270 (75) av	6721
L_90~270 (85) av	296
L_45 (65) av	8140
L_45 (75) av	6262
L_45 (85) av	180

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2015-11-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2015-11-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity: 65.0%  
Test Distance: 4.950m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	57.7	57.6	57.5	57.5	57.5	57.4	57.4	57.3	57.3	57.4	57.4	57.3	57.2	57.2	57.2	57.2	57.2	57.3	57.2
5	57.4	57.3	57.2	57.1	57.0	57.0	56.9	56.9	56.9	56.9	56.9	56.9	56.8	56.8	56.8	56.7	56.7	56.8	56.7
10	57.0	56.8	56.6	56.6	56.5	56.4	56.3	56.3	56.2	56.2	56.2	56.2	56.0	56.0	56.0	56.0	56.0	56.0	56.0
15	56.1	56.0	55.8	55.7	55.6	55.5	55.4	55.3	55.2	55.2	55.1	55.1	54.9	54.8	54.8	54.8	54.8	54.8	54.8
20	54.7	54.6	54.4	54.4	54.2	54.2	54.1	54.0	53.9	53.8	53.7	53.7	53.5	53.5	53.4	53.4	53.3	53.4	53.3
25	53.0	52.8	52.6	52.5	52.4	52.4	52.2	52.2	52.1	52.1	52.0	51.9	51.7	51.6	51.5	51.5	51.5	51.5	51.4
30	50.7	50.6	50.4	50.3	50.2	50.2	50.0	50.0	49.9	49.9	49.7	49.7	49.5	49.4	49.3	49.3	49.2	49.2	49.1
35	48.1	48.0	47.8	47.8	47.7	47.7	47.5	47.5	47.4	47.3	47.2	47.2	47.0	46.9	46.7	46.7	46.6	46.7	46.6
40	45.1	45.0	44.8	44.8	44.7	44.7	44.6	44.6	44.5	44.5	44.4	44.4	44.2	44.1	43.9	43.9	43.8	43.8	43.7
45	41.8	41.7	41.4	41.5	41.4	41.4	41.3	41.3	41.2	41.3	41.2	41.3	41.1	41.1	40.9	40.9	40.7	40.7	40.7
50	38.0	38.0	37.7	37.8	37.6	37.7	37.6	37.7	37.7	37.8	37.8	37.8	37.8	37.8	37.5	37.5	37.4	37.4	37.3
55	33.5	33.4	33.3	33.4	33.3	33.4	33.4	33.6	33.6	33.9	33.9	34.0	34.0	34.0	33.7	33.7	33.6	33.6	33.5
60	28.2	28.2	28.0	28.1	28.0	28.2	28.3	28.6	28.8	29.2	29.3	29.4	29.4	29.4	29.2	29.1	29.1	29.1	29.1
65	22.1	22.1	21.9	22.1	21.9	22.1	22.2	22.7	22.9	23.4	23.6	23.8	23.8	23.9	23.6	23.7	23.6	23.8	23.7
70	15.2	15.2	15.1	15.2	15.1	15.3	15.5	15.9	16.1	16.7	16.8	17.1	17.1	17.2	17.1	17.3	17.2	17.5	17.4
75	7.96	8.05	7.92	8.05	7.98	8.26	8.36	8.77	8.94	9.39	9.50	9.79	9.76	9.99	9.93	10.2	10.2	10.5	10.5
80	1.16	1.29	1.16	1.33	1.26	1.56	1.60	1.95	2.02	2.42	2.49	2.75	2.73	2.98	2.96	3.26	3.27	3.57	3.55
85	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
90	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
95	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
100	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
105	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
110	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
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: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-10

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	57.2	57.2	57.2	57.4	57.5	57.5	57.8	57.7	57.8	57.8	57.8	57.8	57.9	57.9	58.0	58.1	58.1	57.7	57.6
5	56.7	56.7	56.8	56.9	57.1	57.1	57.2	57.3	57.5	57.5	57.6	57.6	57.7	57.7	57.9	58.0	58.0	57.7	57.7
10	56.0	56.0	56.1	56.2	56.3	56.4	56.5	56.7	56.9	56.9	57.0	57.1	57.2	57.3	57.4	57.6	57.7	57.5	57.4
15	54.8	54.8	54.9	55.1	55.3	55.3	55.5	55.7	55.9	55.9	56.0	56.2	56.3	56.4	56.7	56.9	57.0	56.9	56.8
20	53.3	53.4	53.5	53.7	53.9	53.9	54.1	54.4	54.7	54.7	54.9	55.0	55.2	55.4	55.7	55.9	56.0	55.9	55.9
25	51.5	51.5	51.7	51.9	52.2	52.3	52.6	52.9	53.1	53.2	53.4	53.5	53.8	54.0	54.3	54.5	54.7	54.6	54.7
30	49.2	49.3	49.6	49.8	50.1	50.3	50.6	51.0	51.2	51.3	51.5	51.7	52.0	52.2	52.6	52.9	53.1	53.1	53.1
35	46.7	46.8	47.1	47.3	47.7	48.0	48.4	48.6	48.9	49.1	49.4	49.6	49.9	50.1	50.6	50.8	51.1	51.2	51.2
40	43.9	44.0	44.3	44.6	45.0	45.2	45.7	45.9	46.2	46.4	46.7	47.0	47.3	47.6	48.0	48.2	48.6	48.8	48.9
45	40.8	40.9	41.2	41.5	41.8	42.1	42.6	42.8	43.2	43.4	43.7	44.0	44.3	44.6	45.0	45.3	45.7	46.0	46.1
50	37.5	37.5	37.8	38.1	38.5	38.8	39.2	39.4	39.8	40.0	40.3	40.5	41.0	41.2	41.7	42.0	42.4	42.7	43.0
55	33.7	33.8	34.1	34.4	34.7	35.0	35.3	35.5	35.9	36.0	36.4	36.7	37.2	37.5	37.8	38.1	38.6	39.1	39.3
60	29.3	29.3	29.7	29.9	30.3	30.4	30.7	31.0	31.3	31.5	31.9	32.1	32.6	32.9	33.3	33.7	34.2	34.7	34.9
65	24.0	24.0	24.3	24.5	24.9	24.9	25.3	25.4	25.7	25.8	26.2	26.4	26.9	27.2	27.8	28.1	28.7	29.4	29.6
70	17.7	17.7	18.0	18.1	18.3	18.4	18.7	18.8	19.0	19.2	19.5	19.7	20.2	20.5	21.1	21.5	22.1	23.0	23.1
75	10.7	10.8	11.0	11.0	11.1	11.1	11.4	11.5	11.7	11.9	12.2	12.4	12.8	13.1	13.7	14.0	14.7	15.6	15.6
80	3.82	3.83	4.01	3.86	3.97	3.90	4.18	4.18	4.47	4.50	4.85	4.92	5.38	5.53	6.06	6.27	6.85	7.73	7.73
85	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	0.01	0.00	0.57	0.48
90	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
95	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
100	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
105	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
110	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
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: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2015-11-10

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:4.950m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	57.5	57.5	57.5	57.4	57.4	57.3	57.3	57.4	57.4	57.3	57.2	57.2	57.2	57.2	57.2	57.3	57.2	57.2	57.2
5	57.6	57.6	57.6	57.6	57.5	57.6	57.5	57.6	57.6	57.6	57.5	57.5	57.6	57.6	57.6	57.6	57.6	57.6	57.5
10	57.4	57.4	57.4	57.4	57.4	57.5	57.5	57.6	57.7	57.7	57.6	57.6	57.6	57.6	57.7	57.7	57.7	57.6	57.6
15	56.8	56.9	56.9	57.0	57.0	57.1	57.1	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.4	57.4	57.4	57.3	57.3
20	56.0	56.1	56.2	56.2	56.3	56.4	56.5	56.5	56.5	56.6	56.5	56.6	56.7	56.7	56.7	56.8	56.7	56.7	56.7
25	54.8	54.8	55.0	55.1	55.2	55.3	55.4	55.5	55.6	55.7	55.6	55.6	55.6	55.7	55.7	55.8	55.7	55.6	55.6
30	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	54.4	54.4	54.3	54.3	54.3	54.4	54.3	54.2	54.1	54.1
35	51.4	51.5	51.7	51.9	52.1	52.3	52.5	52.6	52.7	52.8	52.8	52.7	52.6	52.6	52.7	52.5	52.4	52.3	52.2
40	49.1	49.2	49.5	49.7	50.0	50.2	50.5	50.6	50.7	50.8	50.9	50.7	50.7	50.6	50.6	50.4	50.3	50.1	50.1
45	46.4	46.6	46.9	47.1	47.4	47.7	48.0	48.1	48.3	48.4	48.6	48.4	48.3	48.2	48.1	47.9	47.8	47.6	47.5
50	43.3	43.5	43.8	44.0	44.4	44.7	45.1	45.3	45.6	45.7	45.9	45.8	45.6	45.4	45.3	45.1	45.0	44.8	44.6
55	39.7	39.9	40.3	40.5	41.0	41.3	41.8	42.0	42.3	42.4	42.6	42.5	42.4	42.1	42.1	41.8	41.7	41.4	41.3
60	35.3	35.6	35.9	36.2	36.8	37.1	37.6	37.8	38.2	38.3	38.5	38.3	38.2	38.0	37.9	37.7	37.5	37.2	37.0
65	30.0	30.2	30.5	30.8	31.2	31.6	32.1	32.3	32.7	32.8	32.9	32.7	32.7	32.5	32.5	32.2	32.1	31.8	31.6
70	23.4	23.5	23.8	23.9	24.3	24.6	25.1	25.3	25.8	25.7	25.8	25.6	25.8	25.6	25.7	25.3	25.3	24.9	24.8
75	15.9	15.9	16.2	16.2	16.5	16.6	17.1	17.2	17.6	17.5	17.5	17.3	17.7	17.6	17.7	17.4	17.4	17.0	16.9
80	7.94	7.90	8.12	8.04	8.23	8.25	8.57	8.54	8.81	8.67	8.69	8.51	8.86	8.88	9.01	8.74	8.76	8.47	8.36
85	0.66	0.53	0.71	0.51	0.64	0.48	0.67	0.50	0.66	0.50	0.58	0.42	0.65	0.57	0.72	0.49	0.41	0.16	0.00
90	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
95	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
100	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
105	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
110	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
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: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2015-11-10

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
 Humidity: 65.0%  
 Test Distance: 4.950m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4

UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	57.2	57.4	57.5	57.5	57.8	57.7	57.8	57.8	57.8	57.8	57.9	57.9	58.0	58.1	58.1				
5	57.6	57.7	57.8	57.8	57.8	57.9	58.0	57.9	57.9	57.9	57.9	57.8	57.9	57.9	57.8				
10	57.7	57.8	57.8	57.8	57.8	57.9	57.9	57.8	57.8	57.8	57.7	57.7	57.6	57.6	57.4				
15	57.4	57.5	57.5	57.4	57.4	57.5	57.5	57.4	57.2	57.2	57.1	57.0	56.9	56.9	56.7				
20	56.7	56.8	56.8	56.7	56.6	56.7	56.6	56.4	56.3	56.1	56.0	55.8	55.7	55.6	55.4				
25	55.6	55.6	55.6	55.5	55.4	55.4	55.3	55.1	54.9	54.7	54.5	54.3	54.1	54.0	53.7				
30	54.0	54.1	54.0	53.9	53.8	53.8	53.6	53.4	53.1	52.9	52.5	52.3	52.0	51.8	51.5				
35	52.1	52.2	52.1	52.0	51.9	51.9	51.4	51.1	50.8	50.5	50.0	49.7	49.5	49.3	48.9				
40	49.9	49.9	49.8	49.7	49.6	49.4	48.9	48.6	48.0	47.7	47.2	46.9	46.5	46.3	45.9				
45	47.3	47.4	47.2	47.1	46.9	46.5	46.0	45.6	45.0	44.5	43.9	43.6	43.1	42.9	42.5				
50	44.4	44.4	44.2	44.1	43.7	43.3	42.7	42.2	41.5	40.9	40.3	40.0	39.5	39.2	38.8				
55	41.0	40.9	40.7	40.6	40.1	39.7	38.9	38.3	37.5	36.9	36.2	35.8	35.1	34.8	34.4				
60	36.8	36.7	36.5	36.2	35.6	35.2	34.4	33.7	32.7	32.0	31.2	30.6	30.0	29.6	29.1				
65	31.3	31.2	30.9	30.5	29.9	29.5	28.6	27.8	26.8	26.1	25.2	24.7	24.0	23.6	23.1				
70	24.4	24.2	23.8	23.4	22.8	22.4	21.5	20.9	19.9	19.2	18.3	17.8	17.1	16.7	16.2				
75	16.4	16.2	15.6	14.9	14.6	14.3	13.6	13.0	12.2	11.6	10.9	10.4	9.74	9.41	8.88				
80	7.52	6.88	6.41	6.67	6.38	6.08	5.20	5.02	4.48	4.07	3.51	3.16	2.68	2.43	2.01				
85	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
90	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				
95	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				
100	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				
105	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				
110	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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				
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				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
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γ Range: 0 - 180DEG  
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 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.351  
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 Remarks: