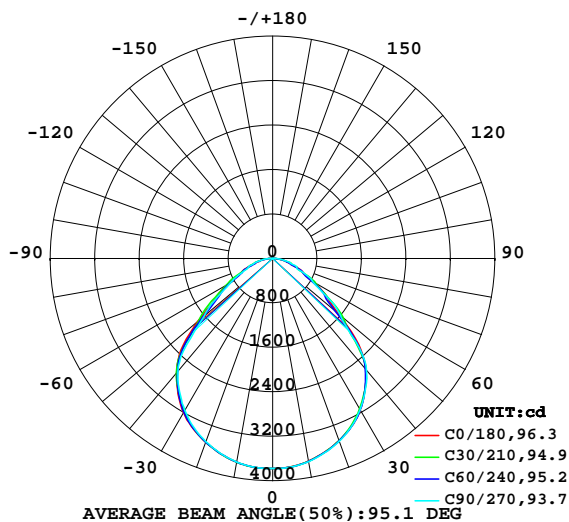


LUMINAIRE PHOTOMETRIC TEST REPORT

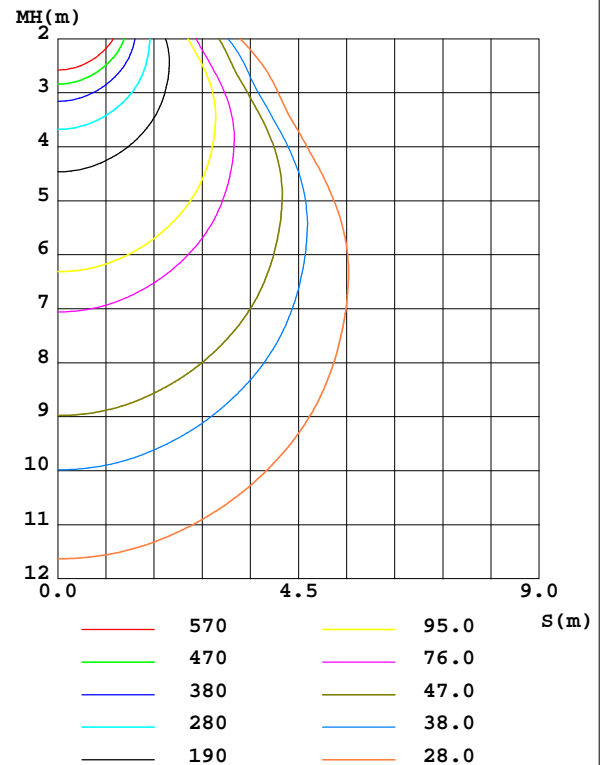
Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz Lamp Flux:8647.7x1 lm		
NAME: LED348 (75W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 119.44 lm/W
MODEL		Imax(cd)	3783	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	75	LOR(%)	100.0	S/MH(C90/270)	1.24	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	8647.7	η UP,DN(C0-180)	0.2,48.5	
NOMINAL FLUX(lm)	8647.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,51.1	
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	229.5	η down(%)	99.6	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:Mr.Ma
Test Date:2024-10-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:6.100m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM
ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3702	3707	3713	3695	3723	3722	3718	3734	0- 10	358.0	358.0	4.14,4.14
20	3492	3493	3501	3471	3520	3519	3511	3540	10- 20	1023	1381	16,16
30	3152	3138	3144	3112	3210	3189	3163	3220	20- 30	1546	2927	33.8,33.8
40	2607	2608	2631	2559	2688	2683	2655	2718	30- 40	1826	4753	55,55
50	1546	1563	1596	1518	1754	1692	1614	1735	40- 50	1673	6426	74.3,74.3
60	826.9	855.2	830.8	823.3	936.1	922.4	871.0	951.9	50- 60	1093	7518	86.9,86.9
70	424.0	434.4	470.7	416.4	494.9	470.8	471.5	485.1	60- 70	634.1	8152	94.3,94.3
80	193.8	205.4	207.8	192.8	232.0	224.1	218.6	247.5	70- 80	345.6	8498	98.3,98.3
90	1.278	1.269	1.236	1.313	6.638	5.335	1.744	14.57	80- 90	111.0	8609	99.6,99.6
100	2.800	2.775	2.663	2.878	2.734	2.714	2.726	2.588	90-100	2.326	8611	99.6,99.6
110	4.958	4.925	4.777	5.058	4.770	4.716	4.705	4.539	100-110	3.958	8615	99.6,99.6
120	6.823	6.832	6.787	6.985	6.682	6.614	6.531	6.393	110-120	5.751	8621	99.7,99.7
130	7.823	7.921	7.938	8.060	7.750	7.666	7.560	7.434	120-130	6.546	8627	99.8,99.8
140	8.371	8.499	8.563	8.648	8.297	8.184	8.080	7.928	130-140	6.233	8634	99.8,99.8
150	9.383	9.522	9.592	9.679	9.282	9.151	9.086	8.892	140-150	5.465	8639	99.9,99.9
160	10.21	10.34	10.31	10.41	10.16	10.08	10.00	9.935	150-160	4.521	8644	100,100
170	10.73	10.77	10.84	10.78	10.75	10.62	10.72	10.53	160-170	2.958	8647	100,100
180	11.08	11.00	11.10	10.98	11.10	10.99	11.09	10.98	170-180	1.034	8648	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

Conical surface Flux(90deg): 5657.4 lm
%lum = 65.4%
%lamp = 65.4%
Conical surface Flux(130deg): 7880.1 lm
%lum = 91.1%
%lamp = 91.1%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:Mr.Ma
Test Date:2024-10-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:6.100m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz
Lamp Flux:8647.7x1 lm

NAME: LED348 (75W 4000K Uplight off)

TYPE:

WEIGHT:

SPEC.:

DIM.:

SERIAL No.:

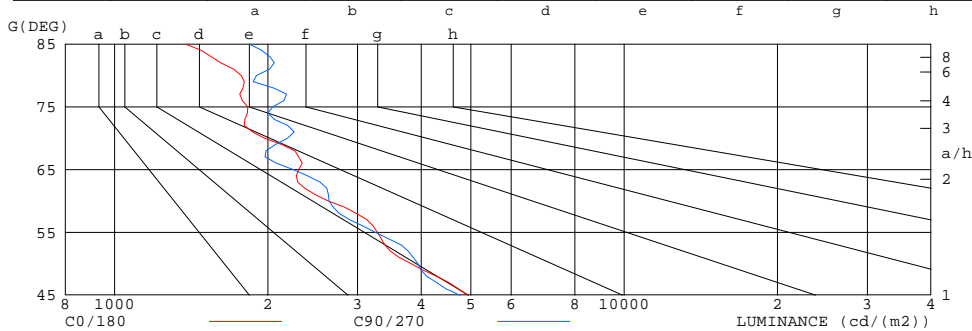
MFR.:

SUR.:

Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	1380	1842
80	1775	1899
75	1827	2045
70	1971	2184
65	2297	2244
60	2629	2637
55	3281	3250
50	3824	3940
45	4925	4754

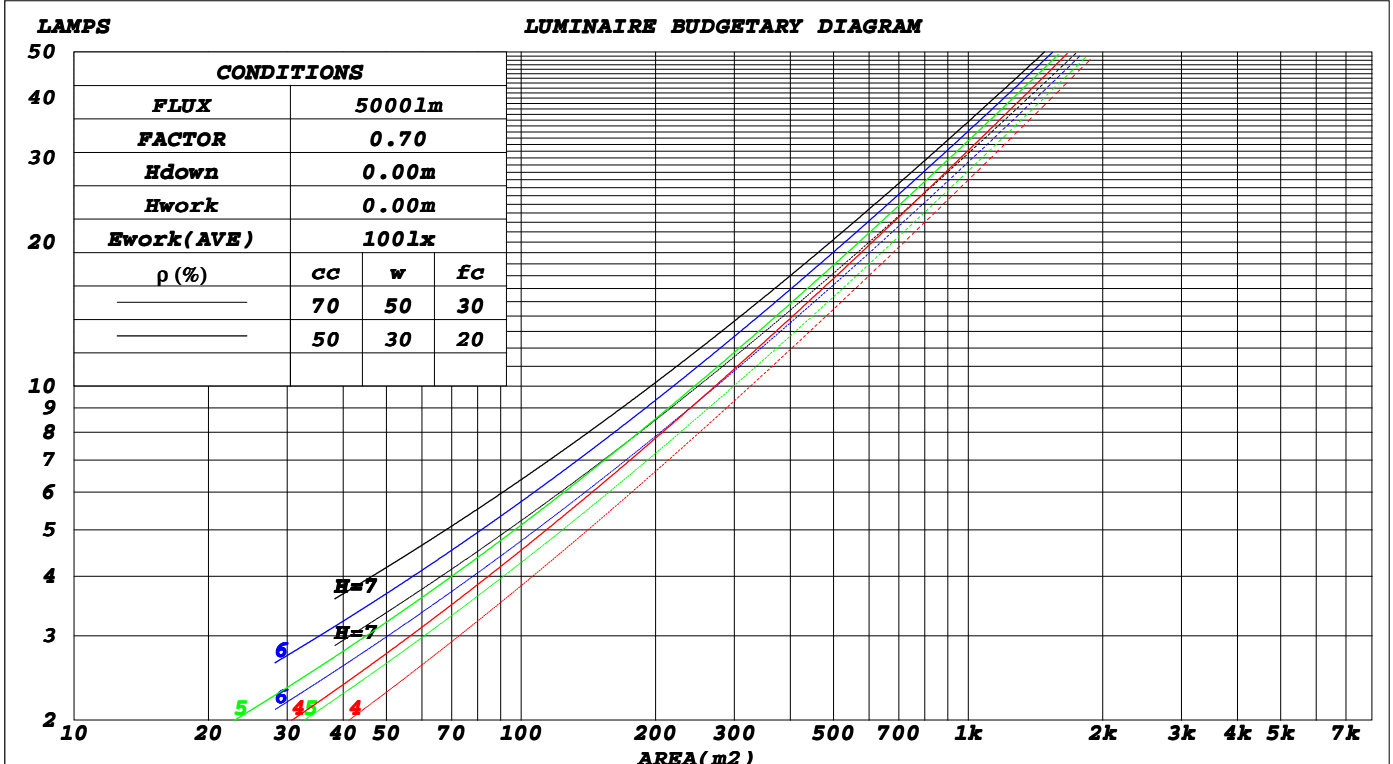
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz Lamp Flux:8647.7x1 lm		
NAME: LED348 (75W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.76	.71	.82	.75	.70	.79	.73	.69	.77	.72	.67	.74	.70	.66	.64
4.0	.75	.67	.61	.74	.66	.61	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.68	.60	.53	.67	.59	.53	.65	.58	.53	.63	.57	.52	.61	.56	.51	.49
6.0	.62	.53	.47	.61	.53	.47	.59	.52	.47	.57	.51	.46	.56	.50	.46	.44
7.0	.56	.48	.42	.55	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.40	.35	.31	.29



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz Lamp Flux:8647.7x1 lm		
NAME: LED348 (75W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0														
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
ρ_{fc}	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.270	.153	.049	.263	.150	.048	.249	.143	.046	.237	.137	.044	.226	.131	.042															
2.0	.257	.141	.043	.251	.138	.043	.239	.133	.041	.228	.128	.040	.218	.124	.039															
3.0	.241	.128	.038	.235	.126	.038	.225	.122	.037	.216	.118	.036	.207	.115	.035															
4.0	.225	.117	.034	.220	.115	.034	.211	.112	.033	.203	.109	.033	.195	.106	.032															
5.0	.210	.107	.031	.206	.106	.031	.198	.103	.030	.191	.101	.030	.184	.098	.029															
6.0	.197	.099	.028	.193	.098	.028	.186	.095	.028	.179	.093	.027	.173	.091	.027															
7.0	.185	.091	.026	.182	.090	.026	.175	.089	.026	.169	.087	.025	.164	.085	.025															
8.0	.174	.085	.024	.171	.084	.024	.165	.083	.024	.160	.081	.023	.155	.079	.023															
9.0	.164	.079	.022	.161	.079	.022	.156	.077	.022	.151	.076	.022	.147	.075	.022															
10.0	.155	.074	.021	.153	.074	.021	.148	.072	.020	.144	.071	.020	.139	.070	.020															

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.194	.194	.194	.166	.166	.166	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.181	.160	.141	.155	.137	.121	.106	.094	.084	.061	.055	.049	.020	.018	.016	
2.0	.171	.136	.106	.147	.117	.091	.100	.081	.064	.058	.047	.037	.019	.015	.012	
3.0	.162	.118	.082	.139	.101	.071	.096	.070	.050	.055	.041	.029	.018	.013	.010	
4.0	.154	.104	.065	.133	.090	.057	.091	.063	.040	.053	.037	.024	.017	.012	.008	
5.0	.147	.093	.054	.126	.081	.047	.087	.056	.033	.050	.033	.020	.016	.011	.006	
6.0	.140	.085	.045	.120	.073	.039	.083	.051	.028	.048	.030	.017	.016	.010	.005	
7.0	.134	.078	.039	.115	.067	.034	.079	.047	.024	.046	.028	.014	.015	.009	.005	
8.0	.128	.072	.034	.110	.062	.029	.076	.044	.021	.044	.026	.012	.014	.008	.004	
9.0	.122	.067	.030	.105	.058	.026	.073	.041	.019	.042	.024	.011	.014	.008	.004	
10.0	.117	.063	.027	.101	.055	.023	.070	.038	.017	.041	.023	.010	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz Lamp Flux:8647.7x1 lm										
NAME: LED348 (75W 4000K Uplight off)					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			Shielding Angle:		
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	9.0	10.3	9.2	10.5	10.7	8.7	10.1	9.0	10.3	10.5
3H	9.7	10.9	10.0	11.2	11.4	9.5	10.7	9.8	11.0	11.2
4H	9.9	11.2	10.3	11.4	11.7	9.8	11.0	10.2	11.3	11.6
6H	10.2	11.3	10.5	11.6	11.9	10.2	11.3	10.5	11.6	11.9
8H	10.3	11.4	10.6	11.7	11.9	10.3	11.4	10.6	11.7	12.0
12H	10.3	11.4	10.7	11.7	12.0	10.4	11.4	10.7	11.7	12.0
4H 2H	9.2	10.4	9.5	10.6	10.9	9.0	10.2	9.3	10.5	10.7
3H	10.1	11.1	10.4	11.4	11.7	9.9	11.0	10.3	11.3	11.6
4H	10.6	11.5	10.9	11.8	12.2	10.4	11.4	10.8	11.7	12.0
6H	10.9	11.8	11.3	12.1	12.5	10.9	11.7	11.3	12.1	12.4
8H	11.1	11.9	11.5	12.2	12.6	11.1	11.9	11.5	12.2	12.6
12H	11.2	11.9	11.6	12.3	12.7	11.2	11.9	11.7	12.3	12.7
8H 4H	10.7	11.5	11.1	11.9	12.3	10.6	11.4	11.0	11.7	12.1
6H	11.3	11.9	11.7	12.3	12.7	11.2	11.8	11.6	12.2	12.7
8H	11.5	12.1	12.0	12.5	12.9	11.5	12.0	11.9	12.5	12.9
12H	11.6	12.1	12.1	12.6	13.1	11.7	12.2	12.2	12.6	13.1
12H 4H	10.7	11.4	11.1	11.8	12.2	10.6	11.3	11.0	11.7	12.1
6H	11.3	11.9	11.8	12.3	12.8	11.2	11.8	11.7	12.2	12.7
8H	11.6	12.1	12.1	12.5	13.0	11.5	12.0	12.0	12.5	13.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.4 / - 0.4					+ 0.5 / - 0.6				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.2				
2.0H	+ 0.9 / - 0.8					+ 1.0 / - 0.8				

CIE Pub.117, 8648 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.5$)
 Area: 0.63 m2

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:Mr.Ma
 Test Date:2024-10-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:6.100m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz Lamp Flux:8647.7x1 lm		
NAME: LED348 (75W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

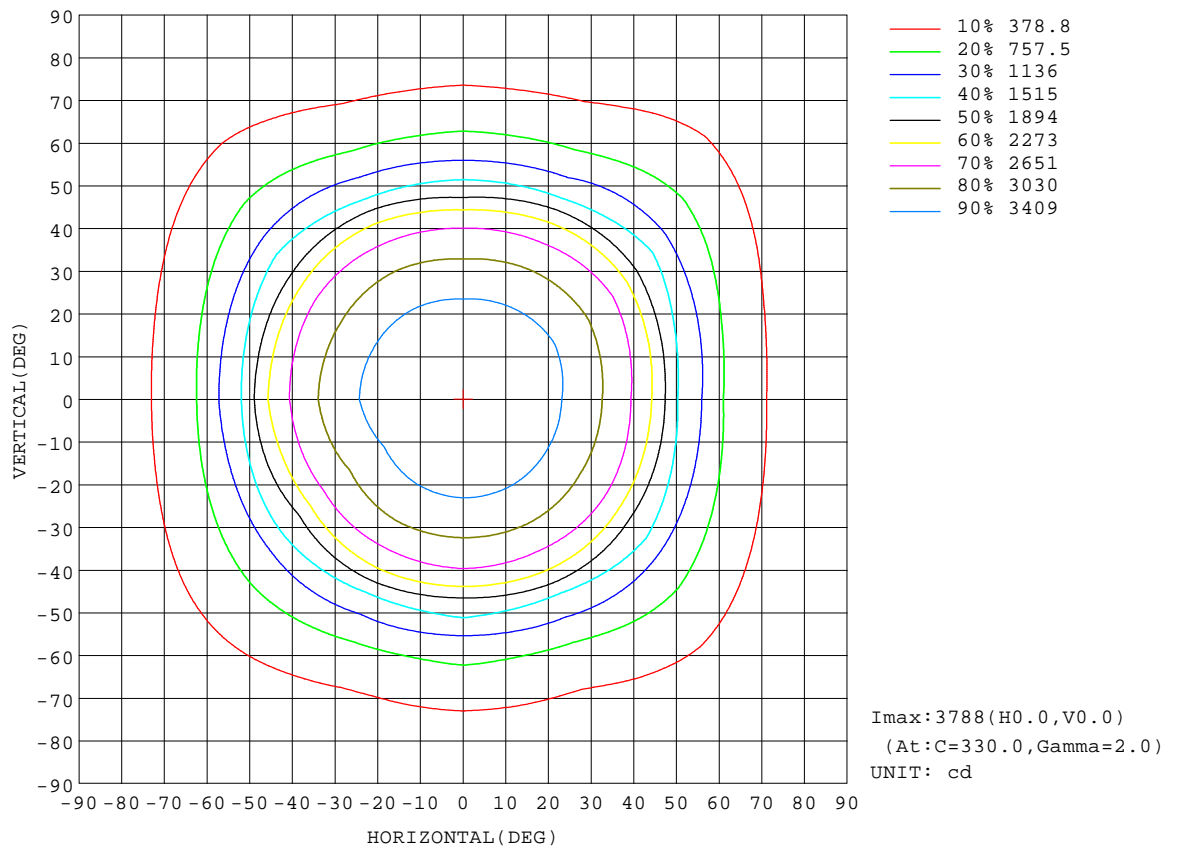
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	53	46	63	53	46	62	52	46	40
0.80	73	63	57	72	63	56	71	62	56	50
1.00	82	72	65	80	71	65	78	72	65	58
1.25	88	79	73	87	78	73	84	77	72	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	91	86	97	90	85	94	88	84	76
2.50	102	95	90	100	94	89	96	91	87	80
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	101	98	102	98	95	87
5.00	110	106	102	108	104	101	103	100	98	89
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: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz Lamp Flux:8647.7x1 lm		
NAME: LED348 (75W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

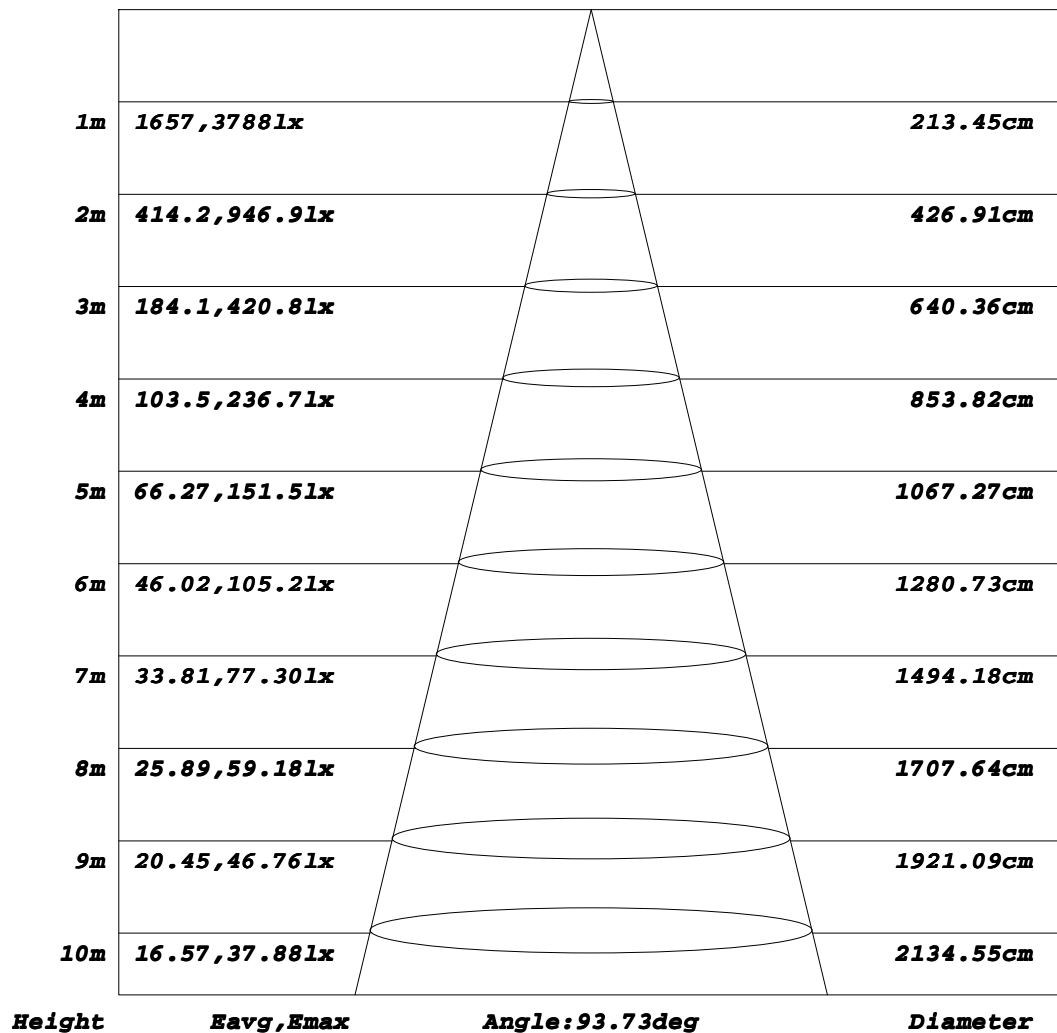


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

AAI Figure

Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz Lamp Flux:8647.7x1 lm		
NAME: LED348 (75W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:5986 lm


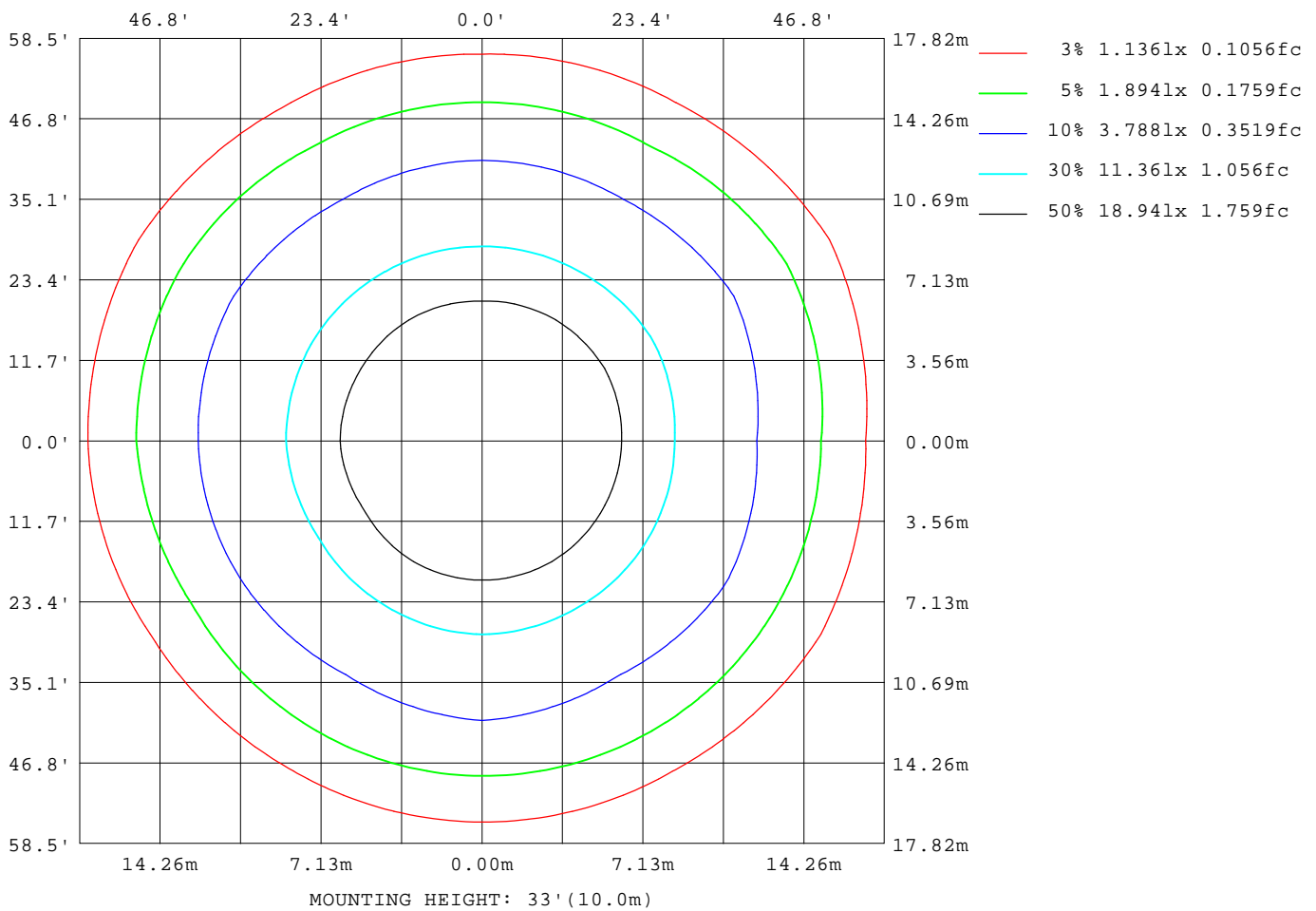
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz Lamp Flux:8647.7x1 lm		
NAME: LED348 (75W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr. Ma
Test Date: 2024-10-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz Lamp Flux:8647.7x1 lm		
NAME: LED348 (75W 4000K Uplight off)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

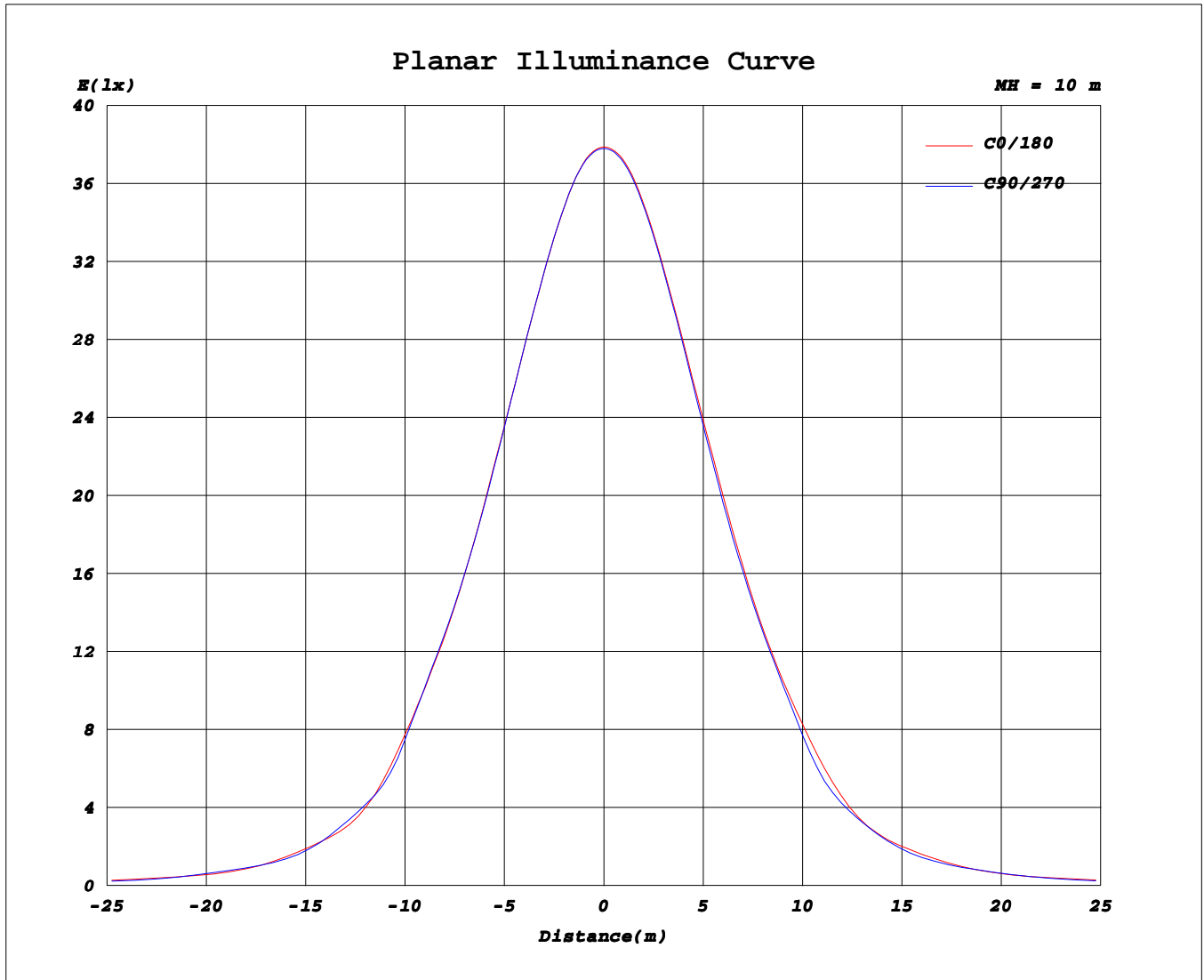
AvgL	cd/m2
L_0~180(65)av	2340
L_0~180(75)av	1912
L_0~180(85)av	1678
L_90~270(65)av	2300
L_90~270(75)av	2070
L_90~270(85)av	1966
L_45(65)av	2361
L_45(75)av	2010
L_45(85)av	1815

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Mr.Ma
Test Date:2024-10-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:6.100m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Mr.Ma
Test Date: 2024-10-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 6.100m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:228.72V I:0.3236A P:72.399W PF:0.9782 Freq:50.00Hz Lamp Flux:8647.7x1 lm																	
NAME: LED348 (75W 4000K Uplight off)									TYPE:			WEIGHT:					
SPEC.:									DIM.:			SERIAL No.:					
MFR.:									SUR.:			Shielding Angle:					

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3781	3781	3781	3781	3781	3781	3781	3781	3781	3781	3781	3781						
5	3764	3765	3767	3768	3763	3756	3772	3772	3771	3770	3773	3778						
10	3702	3706	3708	3713	3702	3687	3723	3723	3722	3718	3727	3741						
15	3609	3612	3616	3620	3607	3587	3635	3635	3635	3629	3642	3660						
20	3492	3490	3496	3501	3484	3458	3520	3519	3518	3511	3528	3552						
25	3346	3332	3349	3348	3336	3293	3384	3372	3378	3355	3389	3412						
30	3152	3126	3150	3144	3142	3082	3210	3181	3197	3163	3211	3229						
35	2896	2892	2897	2906	2882	2840	2971	2950	2958	2930	2969	3005						
40	2607	2621	2594	2631	2572	2547	2688	2698	2668	2655	2680	2755						
45	2190	2093	2150	2118	2118	1992	2338	2279	2284	2182	2303	2382						
50	1546	1655	1471	1596	1452	1583	1754	1738	1646	1614	1670	1799						
55	1183	1201	1133	1175	1113	1132	1244	1343	1176	1218	1178	1421						
60	827	901	809	831	793	854	936	966	879	871	897	1007						
65	610	595	600	598	583	566	636	695	614	627	614	751						
70	424	467	402	471	399	434	495	475	467	471	480	490						
75	297	346	299	334	304	316	326	348	320	341	312	373						
80	194	208	203	208	197	188	232	233	216	219	224	271						
85	75.6	87.9	82.0	101	76.5	66.3	109	122	104	115	108	151						
90	1.28	1.28	1.25	1.24	1.26	1.37	6.64	6.43	4.24	1.74	6.47	22.7						
95	1.91	1.91	1.85	1.81	1.89	2.08	1.91	1.91	1.88	1.93	1.85	1.79						
100	2.80	2.81	2.74	2.66	2.76	2.99	2.73	2.75	2.68	2.73	2.62	2.55						
105	3.85	3.87	3.77	3.69	3.82	4.08	3.72	3.72	3.62	3.68	3.55	3.47						
110	4.96	4.97	4.88	4.78	4.92	5.19	4.77	4.77	4.67	4.71	4.59	4.48						
115	5.97	5.97	5.94	5.86	5.98	6.24	5.80	5.79	5.67	5.70	5.56	5.46						
120	6.82	6.82	6.85	6.79	6.89	7.08	6.68	6.65	6.58	6.53	6.47	6.32						
125	7.43	7.44	7.53	7.46	7.57	7.69	7.33	7.28	7.21	7.15	7.10	6.93						
130	7.82	7.87	7.97	7.94	8.02	8.10	7.75	7.70	7.63	7.56	7.51	7.36						
135	8.11	8.17	8.28	8.27	8.34	8.40	8.04	7.98	7.91	7.83	7.76	7.64						
140	8.37	8.44	8.56	8.56	8.63	8.67	8.30	8.22	8.14	8.08	7.98	7.88						
145	8.71	8.77	8.89	8.90	9.00	9.05	8.61	8.54	8.44	8.39	8.24	8.16						
150	9.38	9.51	9.54	9.59	9.67	9.69	9.28	9.22	9.08	9.09	8.93	8.86						
155	9.87	9.98	9.96	10.0	10.1	10.1	9.79	9.72	9.65	9.60	9.50	9.48						
160	10.2	10.3	10.3	10.3	10.5	10.3	10.2	10.1	10.1	10.00	9.93	9.94						
165	10.5	10.6	10.5	10.6	10.7	10.5	10.5	10.4	10.4	10.5	10.2	10.3						
170	10.7	10.8	10.7	10.8	10.8	10.7	10.8	10.6	10.6	10.7	10.5	10.5						
175	11.0	11.0	10.9	11.0	10.9	10.9	11.0	10.9	10.8	10.9	10.8	10.8						
180	11.1	11.0	11.0	11.1	11.0	11.0	11.1	11.0	11.0	11.1	11.0	10.9						

C Range: 0 - 360DEG
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