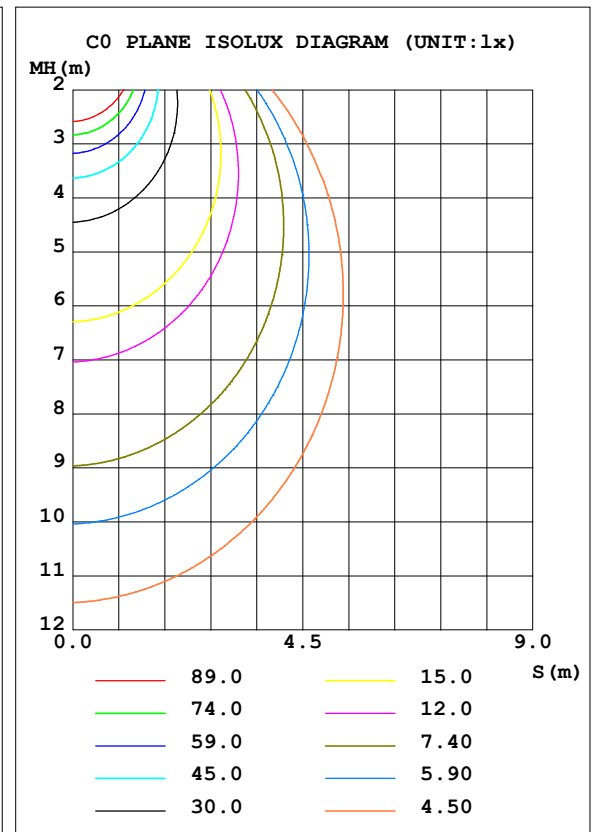
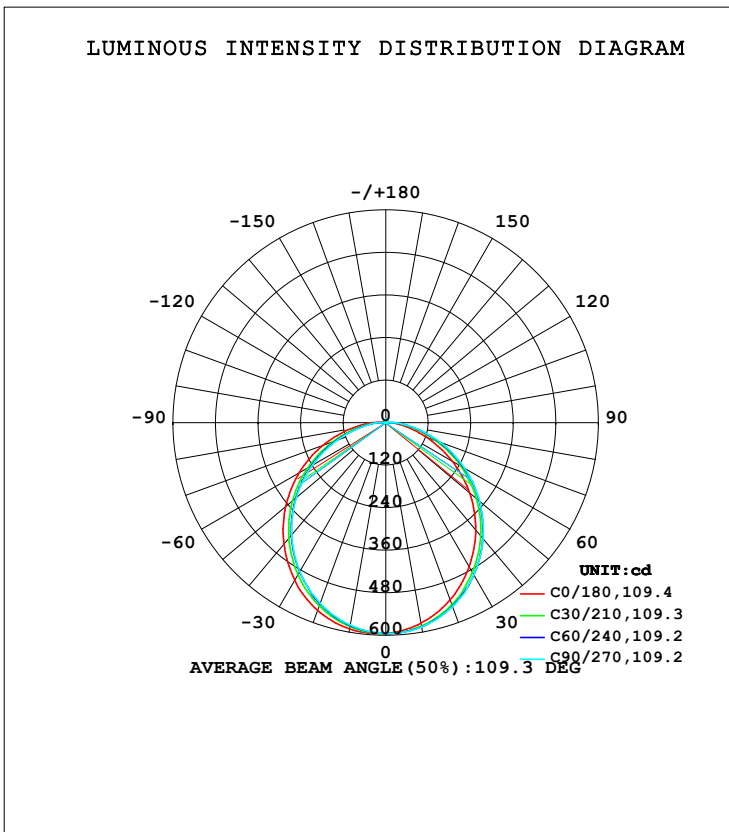


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 114.81 lm/W			
MODEL	S18436-4K	I <sub>max</sub> (cd)	596.0	S/MH (C0/180)	1.28
NOMINAL POWER (W)	14.7954	LOR (%)	100.0	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	240	TOTAL FLUX (lm)	1698.6	η UP, DN (C0-180)	1.0, 48.5
NOMINAL FLUX (lm)	1698.65	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.0, 49.6
LAMPS INSIDE	1	η up (%)	2.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	240.561	η down (%)	98.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2023-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 11.780m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

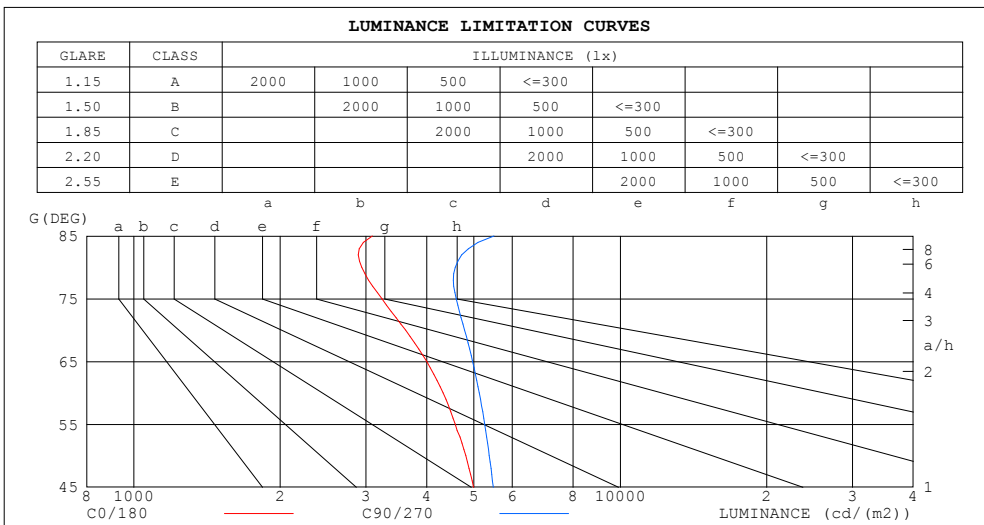
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	☉ zone	☉ total	☉lum, lamp
10	574.2	583.4	584.8	581.3	590.6	582.6	579.9	582.0	0- 10	56.16	56.16	3.31,3.31
20	531.9	548.3	551.8	545.8	563.2	546.8	542.1	547.1	10- 20	160.1	216.2	12.7,12.7
30	470.4	492.3	496.5	489.6	512.7	490.5	485.0	491.3	20- 30	240.2	456.4	26.9,26.9
40	394.8	421.5	426.9	419.0	447.0	419.8	412.8	421.0	30- 40	286.0	742.4	43.7,43.7
50	309.4	339.2	345.8	337.2	368.7	337.7	329.8	338.8	40- 50	293.5	1036	61,61
60	216.1	248.6	256.5	247.3	281.4	247.6	238.2	248.2	50- 60	262.7	1299	76.4,76.4
70	123.8	155.7	163.8	155.0	189.1	154.7	145.7	154.7	60- 70	199.4	1498	88.2,88.2
80	51.10	72.84	79.47	73.05	100.5	72.43	65.89	72.31	70- 80	118.5	1616	95.2,95.2
90	12.16	21.70	24.69	22.38	36.22	21.34	17.72	21.61	80- 90	48.82	1665	98,98
100	2.428	2.803	3.071	2.884	6.589	2.427	1.893	2.734	90-100	10.88	1676	98.7,98.7
110	3.276	2.610	2.454	2.514	1.944	2.224	2.454	2.419	100-110	2.451	1679	98.8,98.8
120	4.299	3.460	3.381	3.490	2.888	3.078	3.416	3.316	110-120	2.898	1681	99,99
130	5.218	4.365	4.336	4.543	3.911	4.036	4.396	4.301	120-130	3.462	1685	99.2,99.2
140	5.939	5.353	5.315	5.479	4.734	5.102	5.271	5.474	130-140	3.742	1689	99.4,99.4
150	6.899	6.308	6.244	6.367	5.515	6.307	6.691	6.979	140-150	3.663	1692	99.6,99.6
160	8.132	7.239	7.231	7.426	6.546	7.435	7.560	7.673	150-160	3.228	1696	99.8,99.8
170	8.799	8.181	8.015	8.225	7.700	8.211	7.889	8.180	160-170	2.189	1698	99.9,99.9
180	9.788	10.41	9.945	9.919	9.806	10.40	9.945	9.919	170-180	0.8673	1699	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:11.780m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3093	5501
80	2943	4576
75	3236	4598
70	3620	4788
65	4000	4971
60	4323	5131
55	4580	5263
50	4813	5379
45	4994	5482

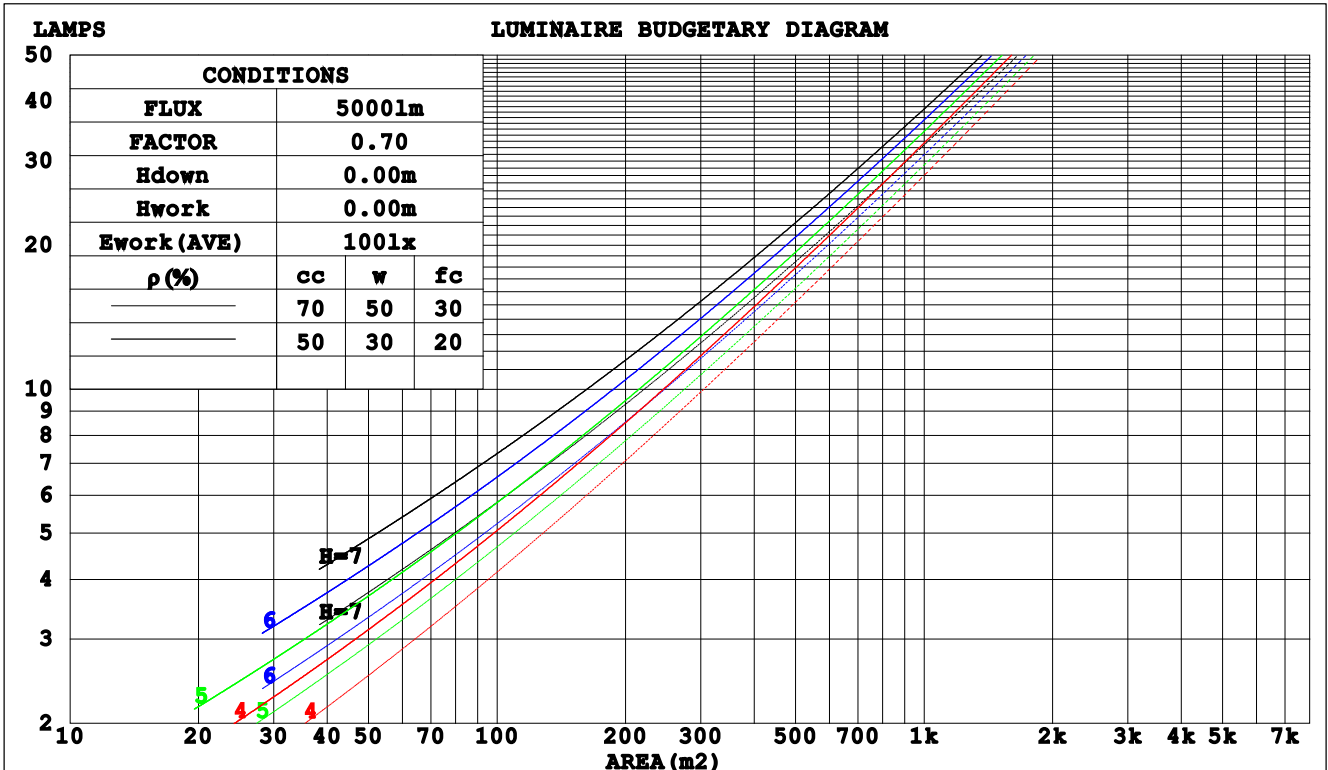
**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:**  
**Test Date:2023-11-25**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.421**  
**Humidity:65.0%**  
**Test Distance:11.780m [K=1.0000]**  
**Remarks:**

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc																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	1.00	1.00	1.00	.98
1.0	1.03	.99	.95	1.00	.96	.93	.96	.93	.89	.92	.89	.86	.88	.86	.83	.81
2.0	.90	.83	.77	.88	.81	.76	.84	.78	.74	.80	.76	.72	.77	.73	.70	.68
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.60	.68	.63	.59	.57
4.0	.70	.61	.54	.68	.60	.54	.65	.58	.53	.63	.57	.52	.60	.55	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.56	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.41	.35	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:11.780m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	Shielding Angle:

<b>ρcc</b>	<b>80%</b>			<b>70%</b>			<b>50%</b>			<b>30%</b>			<b>10%</b>			<b>0</b>
<b>ρw</b>	<b>50%</b>	<b>30%</b>	<b>10%</b>	<b>50%</b>	<b>30%</b>	<b>10%</b>	<b>50%</b>	<b>30%</b>	<b>10%</b>	<b>50%</b>	<b>30%</b>	<b>10%</b>	<b>50%</b>	<b>30%</b>	<b>10%</b>	<b>0</b>
<b>ρfc</b>	<b>20%</b>			<b>20%</b>			<b>20%</b>			<b>20%</b>			<b>20%</b>			<b>0</b>
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients (WEC)</b>									
0.0																
1.0	.318	.181	.057	.311	.177	.056	.296	.170	.054	.283	.163	.052	.271	.157	.051	
2.0	.295	.162	.050	.288	.159	.049	.275	.153	.048	.264	.148	.046	.253	.143	.045	
3.0	.271	.144	.043	.265	.142	.043	.254	.138	.042	.243	.133	.041	.234	.129	.040	
4.0	.250	.130	.038	.244	.128	.038	.234	.124	.037	.225	.121	.036	.216	.117	.036	
5.0	.230	.117	.034	.226	.116	.034	.217	.113	.033	.208	.110	.033	.200	.107	.032	
6.0	.213	.107	.031	.209	.106	.030	.201	.103	.030	.194	.101	.030	.187	.098	.029	
7.0	.198	.098	.028	.195	.097	.028	.187	.095	.027	.181	.093	.027	.174	.091	.027	
8.0	.185	.091	.025	.182	.090	.025	.175	.088	.025	.169	.086	.025	.163	.084	.024	
9.0	.174	.084	.023	.170	.083	.023	.165	.081	.023	.159	.080	.023	.154	.078	.023	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.074	.021	.145	.073	.021	

<b>ρcc</b>	<b>80%</b>			<b>70%</b>			<b>50%</b>			<b>30%</b>			<b>10%</b>			<b>0</b>
<b>ρw</b>	<b>50%</b>	<b>30%</b>	<b>10%</b>	<b>50%</b>	<b>30%</b>	<b>10%</b>	<b>50%</b>	<b>30%</b>	<b>10%</b>	<b>50%</b>	<b>30%</b>	<b>10%</b>	<b>50%</b>	<b>30%</b>	<b>10%</b>	<b>0</b>
<b>ρfc</b>	<b>20%</b>			<b>20%</b>			<b>20%</b>			<b>20%</b>			<b>20%</b>			<b>0</b>
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients (CCEC)</b>									
0.0	.205	.205	.205	.176	.176	.176	.120	.120	.120	.069	.069	.069	.022	.022	.022	
1.0	.196	.171	.149	.168	.147	.128	.115	.101	.089	.066	.058	.051	.021	.019	.017	
2.0	.188	.147	.113	.161	.127	.098	.110	.088	.068	.064	.051	.040	.020	.016	.013	
3.0	.180	.130	.089	.154	.112	.077	.106	.078	.054	.061	.045	.032	.020	.015	.010	
4.0	.172	.116	.074	.148	.101	.064	.102	.070	.045	.059	.041	.027	.019	.013	.009	
5.0	.165	.106	.063	.142	.092	.054	.097	.064	.038	.056	.038	.023	.018	.012	.008	
6.0	.158	.098	.055	.135	.085	.048	.093	.059	.034	.054	.035	.020	.017	.011	.007	
7.0	.151	.091	.049	.130	.079	.042	.090	.055	.030	.052	.032	.018	.017	.011	.006	
8.0	.144	.085	.044	.124	.074	.039	.086	.052	.027	.050	.031	.016	.016	.010	.005	
9.0	.138	.080	.041	.119	.069	.036	.082	.049	.025	.048	.029	.015	.016	.009	.005	
10.0	.132	.076	.038	.114	.066	.033	.079	.046	.024	.046	.027	.014	.015	.009	.005	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:11.780m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	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				
<b>x = 2H y = 2H</b>	18.0	19.5	18.3	19.7	20.0	18.5	20.0	18.8	20.3	20.5
3H	19.3	20.7	19.6	20.9	21.2	20.1	21.5	20.4	21.7	22.0
4H	19.8	21.1	20.1	21.4	21.7	20.7	22.1	21.1	22.3	22.6
6H	20.1	21.3	20.5	21.6	22.0	21.3	22.5	21.6	22.8	23.1
8H	20.2	21.4	20.6	21.7	22.1	21.5	22.7	21.9	23.0	23.4
12H	20.3	21.4	20.7	21.8	22.1	21.7	22.9	22.1	23.2	23.5
<b>4H 2H</b>	18.7	20.0	19.0	20.3	20.6	19.1	20.4	19.4	20.7	21.0
3H	20.2	21.3	20.6	21.7	22.0	20.8	22.0	21.2	22.3	22.7
4H	20.8	21.9	21.2	22.2	22.6	21.6	22.7	22.0	23.0	23.4
6H	21.3	22.2	21.7	22.6	23.0	22.3	23.3	22.7	23.6	24.1
8H	21.5	22.3	21.9	22.7	23.2	22.6	23.5	23.1	23.9	24.3
12H	21.6	22.4	22.1	22.8	23.3	22.9	23.7	23.4	24.1	24.6
<b>8H 4H</b>	21.2	22.0	21.6	22.4	22.9	21.9	22.8	22.3	23.2	23.6
6H	21.8	22.6	22.3	23.0	23.5	22.7	23.5	23.2	23.9	24.4
8H	22.1	22.8	22.6	23.2	23.7	23.2	23.8	23.7	24.3	24.8
12H	22.4	22.9	22.9	23.4	23.9	23.6	24.1	24.1	24.6	25.2
<b>12H 4H</b>	21.2	22.0	21.7	22.4	22.9	21.9	22.7	22.4	23.1	23.6
6H	21.9	22.6	22.4	23.1	23.6	22.8	23.5	23.3	23.9	24.4
8H	22.3	22.9	22.8	23.3	23.9	23.3	23.9	23.8	24.3	24.9
<b>Variations with the observer position at spacings:</b>										
<b>S = 1.0H</b>	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117, 1699 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.8)  
 Area: 0.1 m2

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:11.780m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	Shielding Angle:

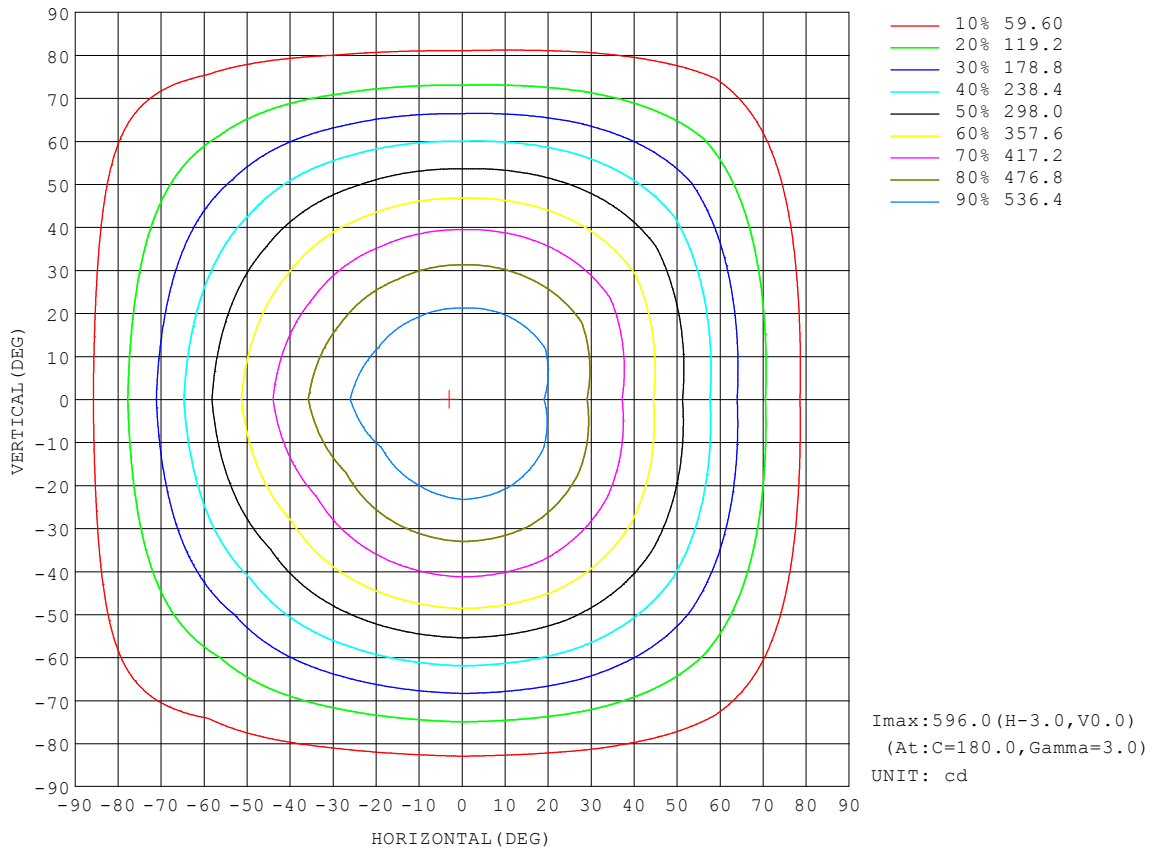
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	71	65	56	48
1.25	82	72	64	81	71	64	78	69	63	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	79	92	84	78	88	81	76	68
2.50	98	90	84	96	88	83	92	85	81	72
3.00	101	94	88	99	92	87	95	89	85	76
4.00	105	99	94	103	97	93	98	94	90	81
5.00	108	103	98	105	101	97	100	97	93	84
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:2023-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:11.780m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	Shielding Angle:



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:**  
**Test Date:2023-11-25**

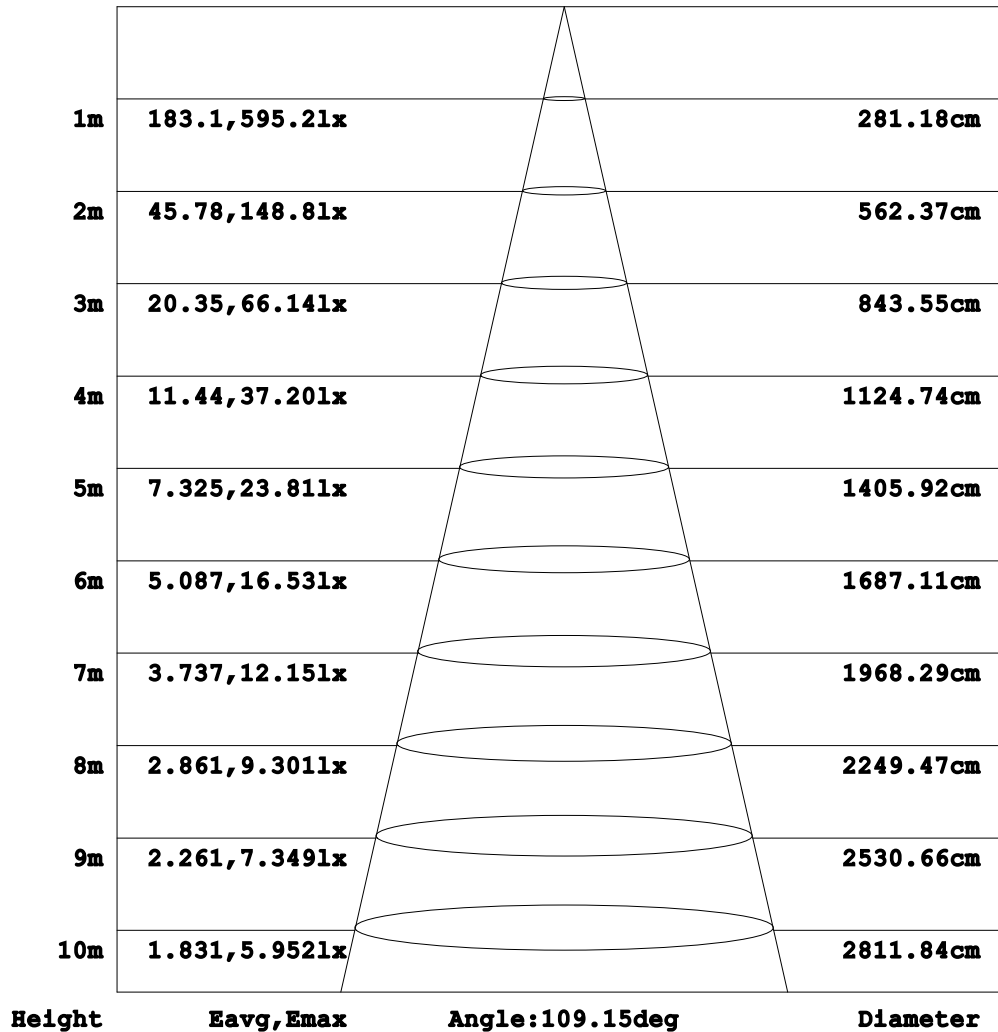
**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.421**  
**Humidity:65.0%**  
**Test Distance:11.780m [K=1.0000]**  
**Remarks:**



**AAI Figure**

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	Shielding Angle:

Flux out:1173 lm



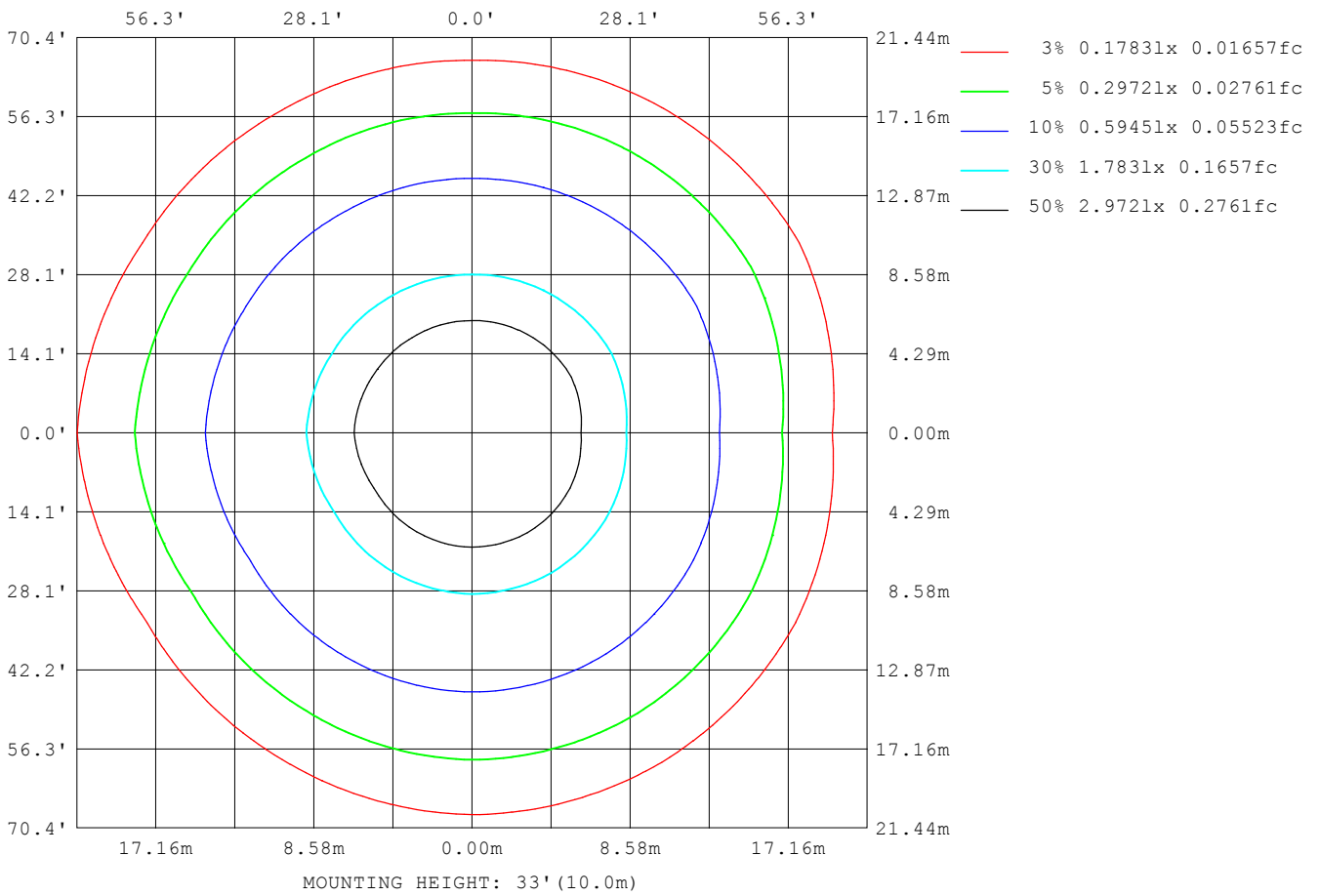
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:11.780m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	Shielding Angle:



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:**  
**Test Date:2023-11-25**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.421**  
**Humidity:65.0%**  
**Test Distance:11.780m [K=1.0000]**  
**Remarks:**

LED Avg.L Report

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	Shielding Angle:

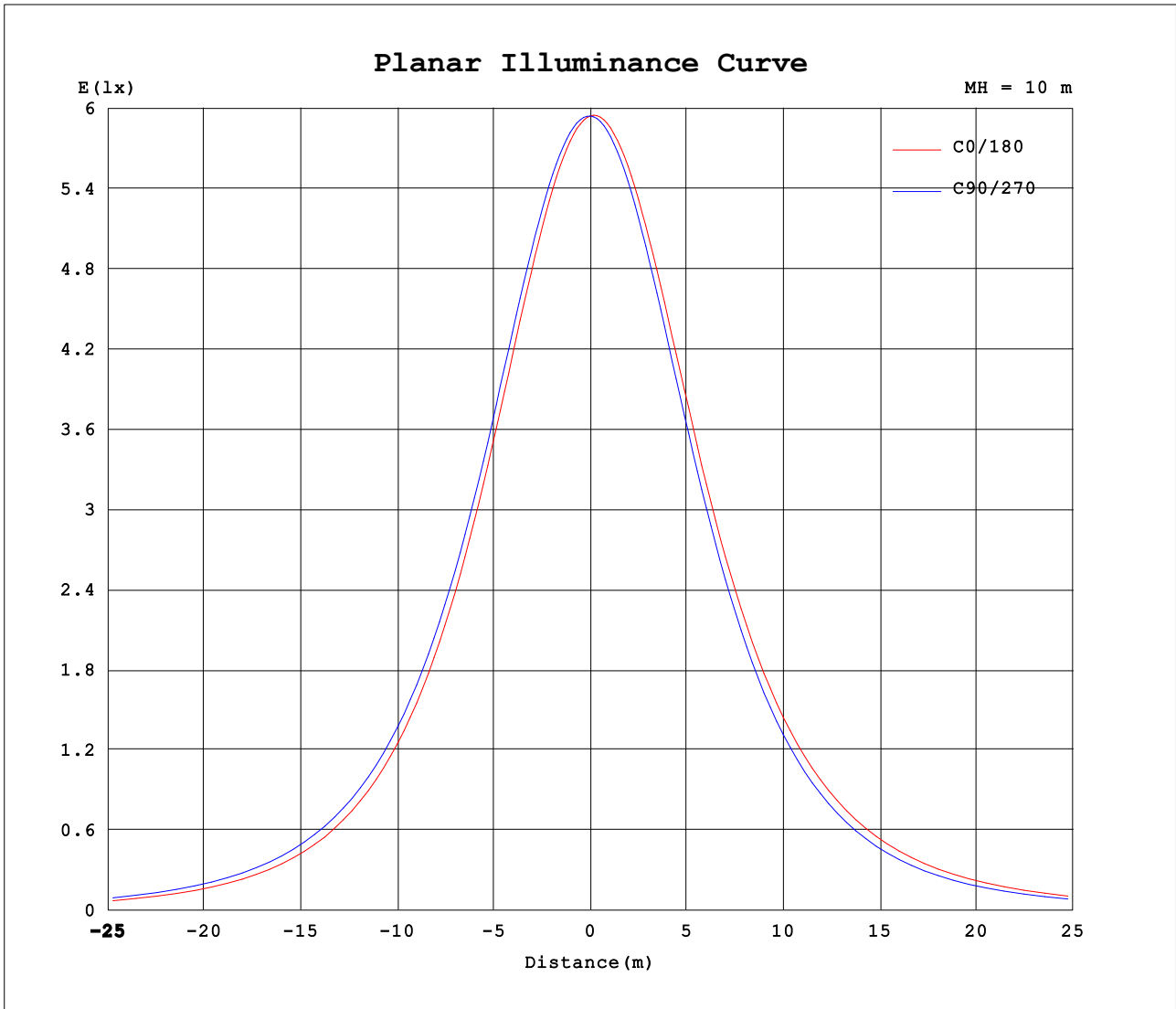
AvgL	cd/m2
L_0~180 (65) av	4787
L_0~180 (75) av	4384
L_0~180 (85) av	5236
L_90~270 (65) av	4754
L_90~270 (75) av	4278
L_90~270 (85) av	4920
L_45 (65) av	4764
L_45 (75) av	4281
L_45 (85) av	4909

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023-11-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:11.780m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2023-11-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 11.780m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.56V I:0.1063A P:14.795W PF:0.5786 Freq:49.98Hz Lamp Flux:1698.65x1 lm		
NAME: S18436-4K	TYPE:LED CEILING LAMP	WEIGHT:
SPEC.:16W 4000K	DIM.: 320x320x82.3mm	SERIAL No.:
MFR.:	SUR.:320x320mm	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	594	595	595	594	594	594	594	595	595	594	594	594							
5	587	592	593	593	591	590	596	593	591	590	591	591							
10	574	582	584	585	582	581	591	584	581	580	581	583							
15	555	567	570	571	567	565	580	570	565	564	566	568							
20	532	546	551	552	547	545	563	550	544	542	546	548							
25	503	519	526	528	522	518	541	525	517	516	520	524							
30	470	488	496	496	492	487	513	495	486	485	489	494							
35	434	454	463	463	458	453	482	462	452	451	455	461							
40	395	417	426	427	421	417	447	425	414	413	418	424							
45	353	377	387	388	382	377	409	386	374	372	378	384							
50	309	334	344	346	340	335	369	344	332	330	336	342							
55	263	290	300	302	295	291	326	300	288	285	292	297							
60	216	244	254	257	249	246	281	253	242	238	246	250							
65	169	197	207	210	203	199	236	207	195	192	199	203							
70	124	151	161	164	157	154	189	160	149	146	153	156							
75	83.7	107	116	119	112	110	143	116	105	102	109	112							
80	51.1	69.2	76.5	79.5	74.1	72.0	101	76.9	67.9	65.9	71.5	73.2							
85	27.0	40.0	45.4	47.9	44.1	42.6	64.3	45.8	39.7	37.8	41.9	44.0							
90	12.2	19.6	23.8	24.7	22.4	22.4	36.2	23.2	19.5	17.7	20.6	22.6							
95	4.58	7.76	8.64	8.82	9.29	8.11	17.0	9.48	6.19	5.35	7.90	8.11							
100	2.43	2.75	2.85	3.07	2.98	2.79	6.59	2.87	1.98	1.89	2.54	2.93							
105	2.73	2.30	2.10	2.10	2.13	2.12	2.40	1.79	1.87	2.00	2.04	2.10							
110	3.28	2.72	2.50	2.45	2.49	2.54	1.94	2.16	2.29	2.45	2.43	2.41							
115	3.84	3.16	2.92	2.91	2.95	3.03	2.38	2.54	2.71	2.93	2.90	2.84							
120	4.30	3.61	3.31	3.38	3.42	3.56	2.89	3.04	3.11	3.42	3.40	3.23							
125	4.74	4.05	3.71	3.86	3.90	4.17	3.42	3.49	3.56	3.90	3.89	3.68							
130	5.22	4.55	4.18	4.34	4.38	4.71	3.91	3.99	4.09	4.40	4.39	4.21							
135	5.58	5.07	4.58	4.84	4.85	5.18	4.34	4.47	4.65	4.85	4.87	4.84							
140	5.94	5.65	5.05	5.32	5.33	5.63	4.73	4.97	5.24	5.27	5.32	5.62							
145	6.23	6.06	5.67	5.77	5.75	5.97	5.13	5.48	5.89	5.76	5.90	6.44							
150	6.90	6.47	6.15	6.24	6.28	6.46	5.51	6.10	6.51	6.69	6.88	7.07							
155	7.88	7.01	6.63	6.98	7.01	7.01	6.00	6.80	7.08	7.36	7.45	7.46							
160	8.13	7.43	7.05	7.23	7.35	7.50	6.55	7.26	7.61	7.56	7.66	7.68							
165	8.41	7.78	7.58	7.59	7.52	7.84	7.25	7.68	7.94	7.68	7.80	7.96							
170	8.80	8.18	8.18	8.02	8.01	8.44	7.70	8.14	8.28	7.89	8.02	8.34							
175	9.55	9.78	10.2	9.90	9.32	9.69	9.52	10.1	9.83	9.26	9.42	9.54							
180	9.79	10.2	10.6	9.94	9.68	10.2	9.81	10.2	10.6	9.94	9.68	10.2							

C Range: 0 - 360DEG  
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γ Range: 0 - 180DEG  
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