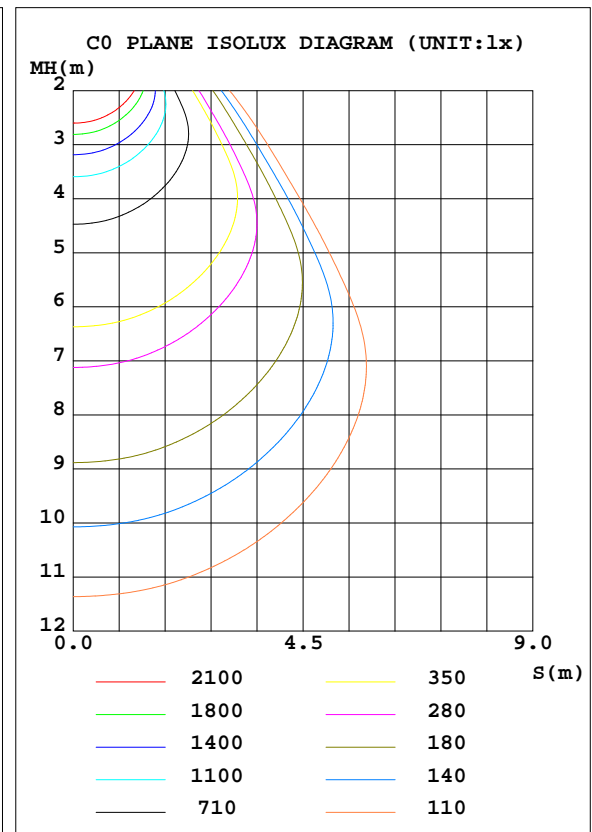
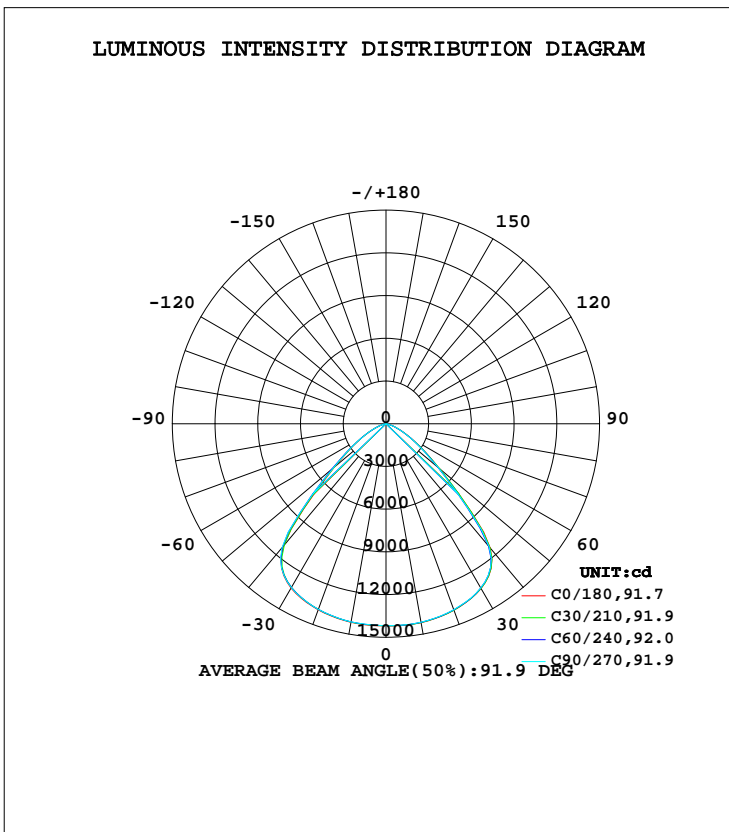


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.94 lm/W			
MODEL	HBL200W	I _{max} (cd)	14207	S/MH(C0/180)	1.32
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	30077	η UP, DN(C0-180)	0.2,49.7
NOMINAL FLUX(lm)	30077.2	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2,49.9
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.2	η down(%)	99.7	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity:65.0%
 Test Distance:9.380m [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	1419	1417	1415	1413	1416	1413	1413	1413	0- 10	1352	1352	4.5,4.5
20	1394	1392	1390	1387	1391	1388	1388	1387	10- 20	3976	5328	17.7,17.7
30	1336	1334	1331	1328	1333	1328	1329	1329	20- 30	6304	11632	38.7,38.7
40	1139	1128	1127	1118	1121	1120	1135	1134	30- 40	7855	19488	64.8,64.8
50	486.1	485.6	478.9	474.3	474.8	488.6	483.4	501.1	40- 50	6050	25538	84.9,84.9
60	203.6	199.6	196.2	196.0	195.4	198.2	197.9	200.8	50- 60	2866	28404	94.4,94.4
70	65.44	65.21	64.94	63.29	63.00	63.16	62.97	65.14	60- 70	1211	29615	98.5,98.5
80	9.492	9.431	9.456	9.134	8.770	8.965	9.076	9.529	70- 80	329.0	29944	99.6,99.6
90	0.0633	0.0637	0.0650	0.0637	0.0869	0.0825	0.0795	0.0833	80- 90	28.65	29973	99.7,99.7
100	0.1441	0.1494	0.1526	0.1511	0.2074	0.2017	0.1968	0.1990	90-100	1.238	29974	99.7,99.7
110	0.3887	0.3989	0.3996	0.4058	0.5284	0.5208	0.5104	0.5081	100-110	3.123	29977	99.7,99.7
120	0.9680	0.9896	0.9969	1.010	1.246	1.226	1.212	1.201	110-120	7.372	29985	99.7,99.7
130	1.894	1.912	1.926	1.936	2.243	2.220	2.203	2.185	120-130	14.03	29999	99.7,99.7
140	2.829	2.843	2.851	2.863	3.178	3.157	3.142	3.124	130-140	19.59	30018	99.8,99.8
150	3.681	3.697	3.704	3.720	3.975	3.953	3.936	3.920	140-150	21.32	30039	99.9,99.9
160	4.507	4.509	4.514	4.519	4.643	4.632	4.623	4.609	150-160	19.44	30059	99.9,99.9
170	4.934	4.929	4.927	4.924	4.968	4.958	4.952	4.946	160-170	13.48	30072	100,100
180	5.105	5.101	5.099	5.094	5.109	5.101	5.096	5.093	170-180	4.782	30077	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 23622 lm

%lum = 78.5%
%lamp = 78.5%

Conical surface Flux(120deg): 28404 lm

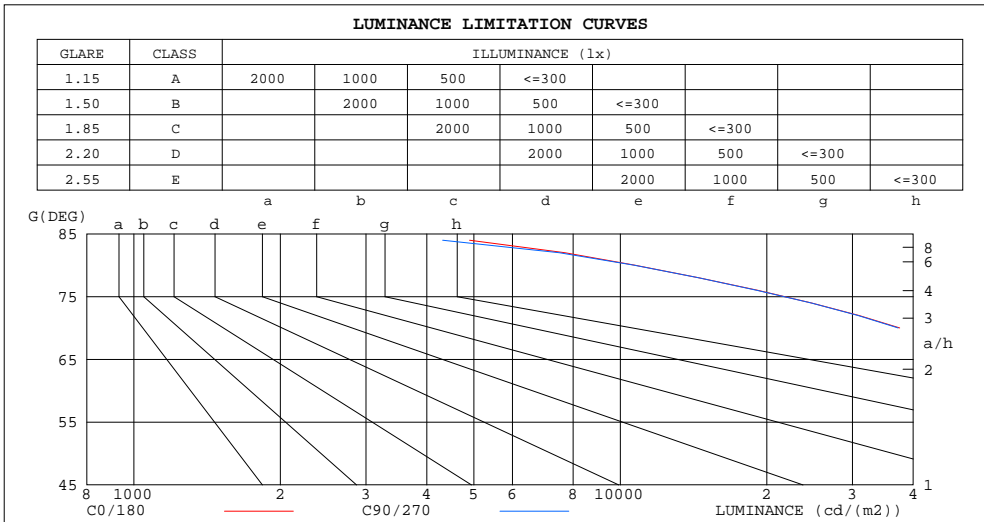
%lum = 94.4%
%lamp = 94.4%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2016-10-31

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
Humidity:65.0%
Test Distance:9.380m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5875	5174
80	10718	10677
75	26316	26282
70	37514	37230
65	62365	61118
60	79832	76946
55	118127	113040
50	148270	146085
45	240046	231957

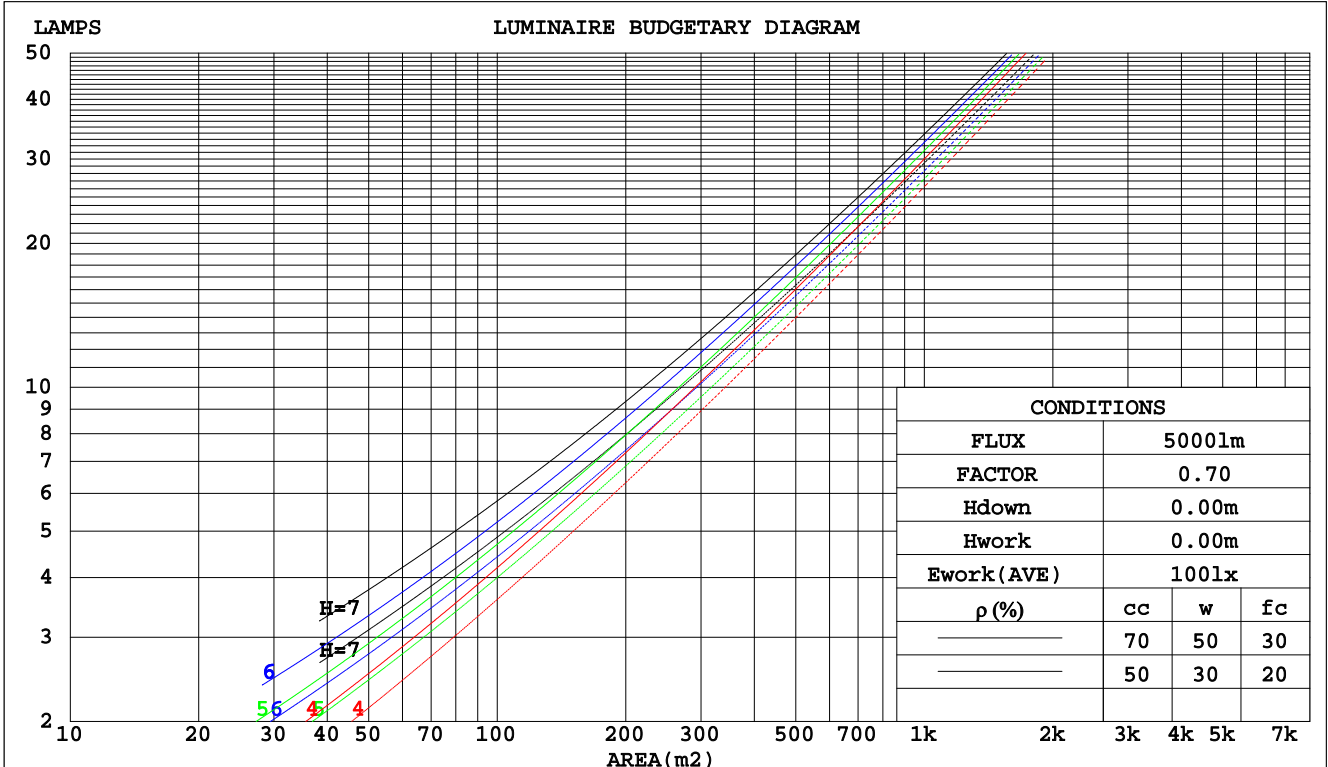
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity:65.0%
 Test Distance:9.380m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

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	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	1.08	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.88	.95	.91	.87	.92	.88	.85	.89	.86	.83	.86	.83	.81	.79
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.75	.72	.70
4.0	.79	.72	.67	.78	.71	.66	.76	.70	.65	.74	.69	.64	.72	.67	.64	.62
5.0	.72	.65	.59	.71	.64	.59	.69	.63	.58	.67	.62	.57	.65	.61	.57	.55
6.0	.66	.58	.53	.65	.58	.52	.63	.57	.52	.62	.56	.51	.60	.55	.51	.49
7.0	.60	.53	.47	.59	.52	.47	.58	.51	.47	.57	.51	.46	.55	.50	.46	.44
8.0	.55	.48	.43	.55	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.50	.43	.39	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.39	.35	.33



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity:65.0%
 Test Distance:9.380m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.230	.131	.041	.223	.127	.040	.210	.120	.038	.198	.114	.037	.187	.108	.035	
2.0	.225	.123	.038	.219	.121	.037	.208	.115	.036	.197	.111	.035	.188	.106	.033	
3.0	.215	.115	.034	.210	.113	.034	.200	.109	.033	.191	.105	.032	.183	.101	.031	
4.0	.205	.106	.031	.200	.105	.031	.191	.101	.030	.183	.098	.030	.176	.095	.029	
5.0	.194	.099	.029	.190	.097	.028	.182	.095	.028	.175	.092	.027	.168	.090	.027	
6.0	.183	.092	.026	.180	.091	.026	.173	.089	.026	.166	.086	.025	.160	.084	.025	
7.0	.174	.086	.024	.170	.085	.024	.164	.083	.024	.158	.081	.024	.153	.080	.023	
8.0	.165	.080	.023	.162	.080	.022	.156	.078	.022	.151	.076	.022	.146	.075	.022	
9.0	.156	.076	.021	.154	.075	.021	.149	.073	.021	.144	.072	.021	.139	.071	.020	
10.0	.148	.071	.020	.146	.071	.020	.142	.069	.020	.137	.068	.019	.133	.067	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.177	.160	.143	.152	.137	.123	.104	.094	.085	.060	.055	.050	.019	.018	.016	
2.0	.166	.135	.109	.142	.116	.094	.097	.080	.066	.056	.047	.038	.018	.015	.013	
3.0	.157	.117	.085	.134	.101	.073	.092	.070	.052	.053	.041	.030	.017	.013	.010	
4.0	.149	.103	.068	.127	.089	.059	.088	.062	.041	.051	.036	.024	.016	.012	.008	
5.0	.141	.092	.055	.121	.079	.048	.084	.056	.034	.048	.033	.020	.016	.011	.007	
6.0	.135	.083	.046	.116	.072	.040	.080	.050	.028	.046	.030	.017	.015	.010	.006	
7.0	.129	.076	.039	.111	.066	.034	.076	.046	.024	.044	.027	.014	.014	.009	.005	
8.0	.123	.070	.034	.106	.061	.030	.073	.043	.021	.043	.025	.013	.014	.008	.004	
9.0	.118	.065	.030	.101	.057	.026	.070	.040	.019	.041	.024	.011	.013	.008	.004	
10.0	.113	.061	.027	.097	.053	.023	.067	.037	.017	.039	.022	.010	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity:65.0%
 Test Distance:9.380m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

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	17.0	18.3	17.3	18.5	18.7	16.9	18.2	17.1	18.3	18.5
3H	17.1	18.3	17.4	18.5	18.7	17.0	18.1	17.2	18.4	18.6
4H	17.0	18.1	17.4	18.4	18.6	16.9	18.0	17.2	18.3	18.5
6H	17.0	18.0	17.3	18.3	18.5	16.8	17.9	17.2	18.1	18.4
8H	16.9	17.9	17.3	18.2	18.5	16.8	17.8	17.1	18.1	18.3
12H	16.9	17.8	17.2	18.1	18.4	16.7	17.7	17.1	18.0	18.3
4H 2H	17.0	18.1	17.3	18.3	18.6	16.9	18.0	17.2	18.2	18.5
3H	17.1	18.1	17.5	18.4	18.7	17.0	18.0	17.4	18.2	18.5
4H	17.1	18.0	17.5	18.3	18.6	17.0	17.8	17.4	18.2	18.5
6H	17.0	17.8	17.4	18.1	18.5	16.9	17.7	17.3	18.0	18.4
8H	17.0	17.7	17.4	18.1	18.4	16.9	17.6	17.3	17.9	18.3
12H	17.0	17.6	17.4	18.0	18.4	16.8	17.5	17.3	17.9	18.3
8H 4H	17.0	17.7	17.4	18.1	18.5	16.9	17.6	17.3	18.0	18.3
6H	17.0	17.5	17.4	17.9	18.4	16.8	17.4	17.3	17.8	18.2
8H	16.9	17.4	17.4	17.8	18.3	16.8	17.3	17.3	17.7	18.2
12H	16.9	17.3	17.4	17.7	18.2	16.8	17.2	17.2	17.6	18.1
12H 4H	17.0	17.6	17.4	18.0	18.4	16.9	17.5	17.3	17.9	18.3
6H	16.9	17.4	17.4	17.8	18.3	16.8	17.3	17.3	17.7	18.2
8H	16.9	17.3	17.4	17.7	18.2	16.8	17.2	17.2	17.6	18.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.5 / - 2.5					+ 1.5 / - 2.6				
1.5H	+ 1.7 / - 1.7					+ 1.8 / - 1.7				
2.0H	+ 3.2 / - 2.9					+ 3.1 / - 2.8				

CIE Pub.117, 30077 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.8)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity:65.0%
 Test Distance:9.380m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

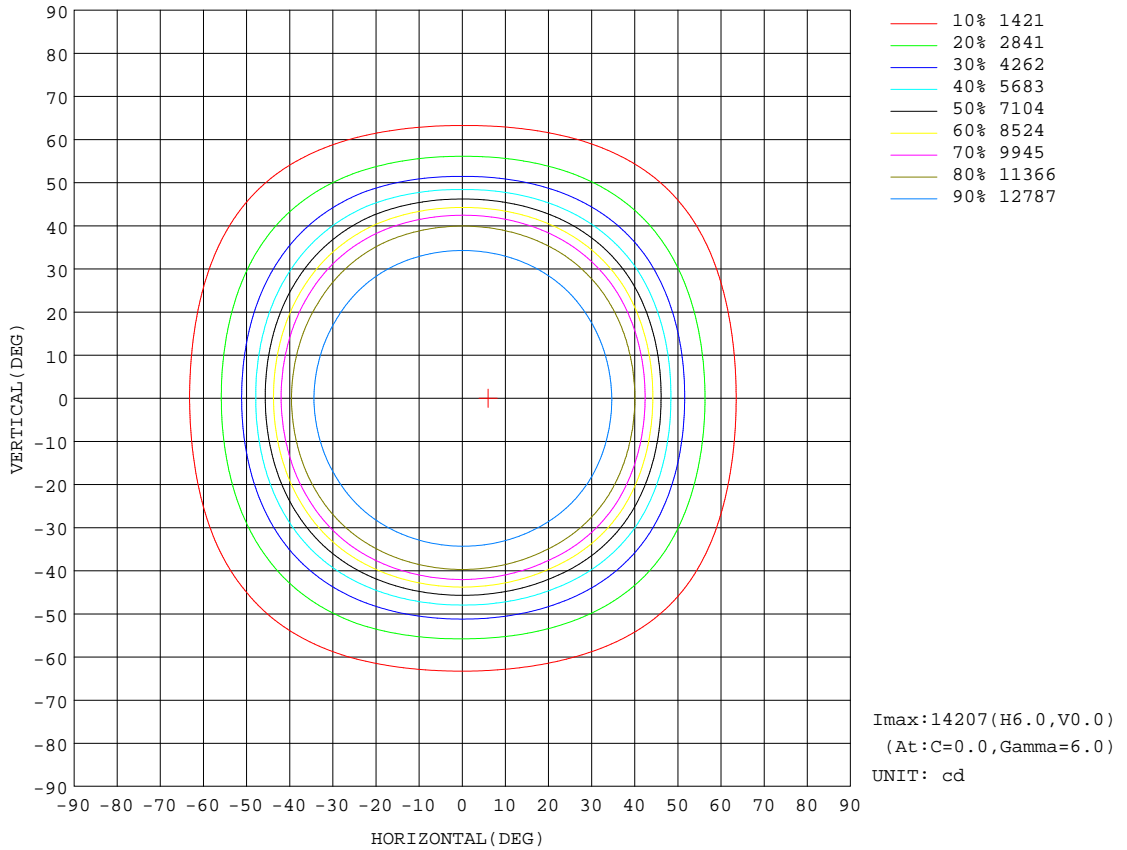
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	60	54	68	59	54	67	59	54	48
0.80	79	70	64	78	70	64	77	69	64	58
1.00	87	78	73	86	78	73	84	79	72	66
1.25	93	85	80	92	85	80	90	83	79	73
1.50	97	90	85	96	89	84	93	88	83	77
2.00	102	96	92	101	95	91	98	93	89	83
2.50	105	100	95	103	98	94	100	96	92	85
3.00	108	103	99	106	101	98	102	98	95	88
4.00	110	106	103	108	105	102	104	101	99	91
5.00	112	108	106	110	107	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity:65.0%
 Test Distance:9.380m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



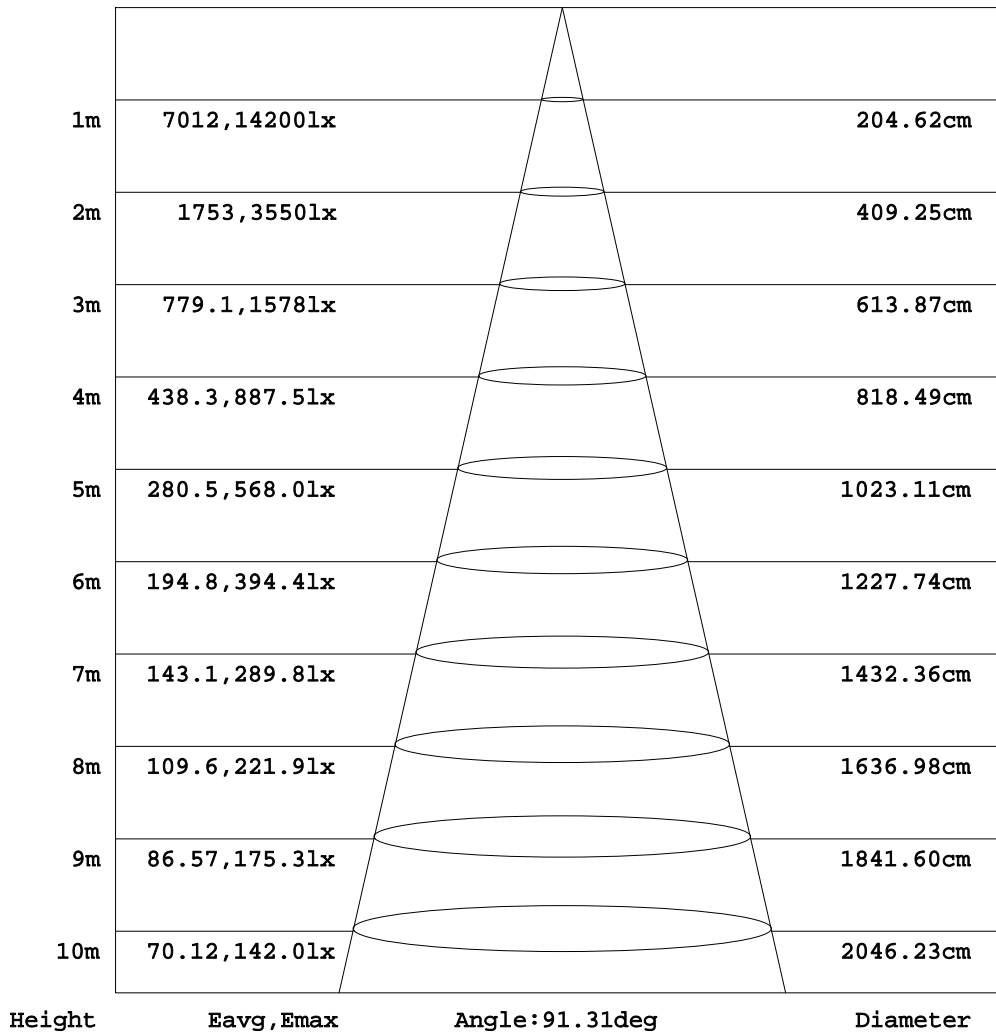
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity:65.0%
 Test Distance:9.380m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

Flux out:23622 lm



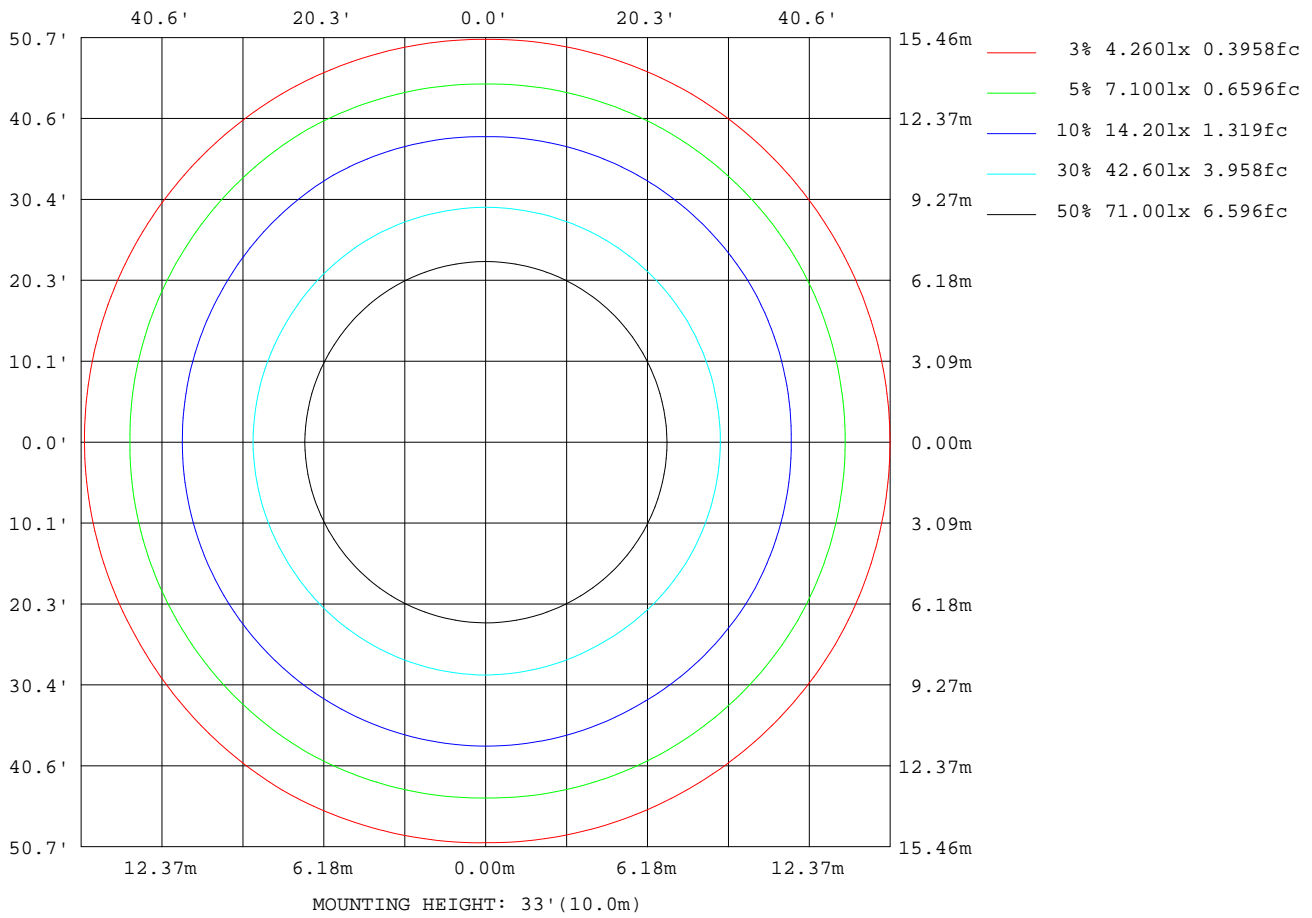
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity:65.0%
 Test Distance:9.380m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity:65.0%
 Test Distance:9.380m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

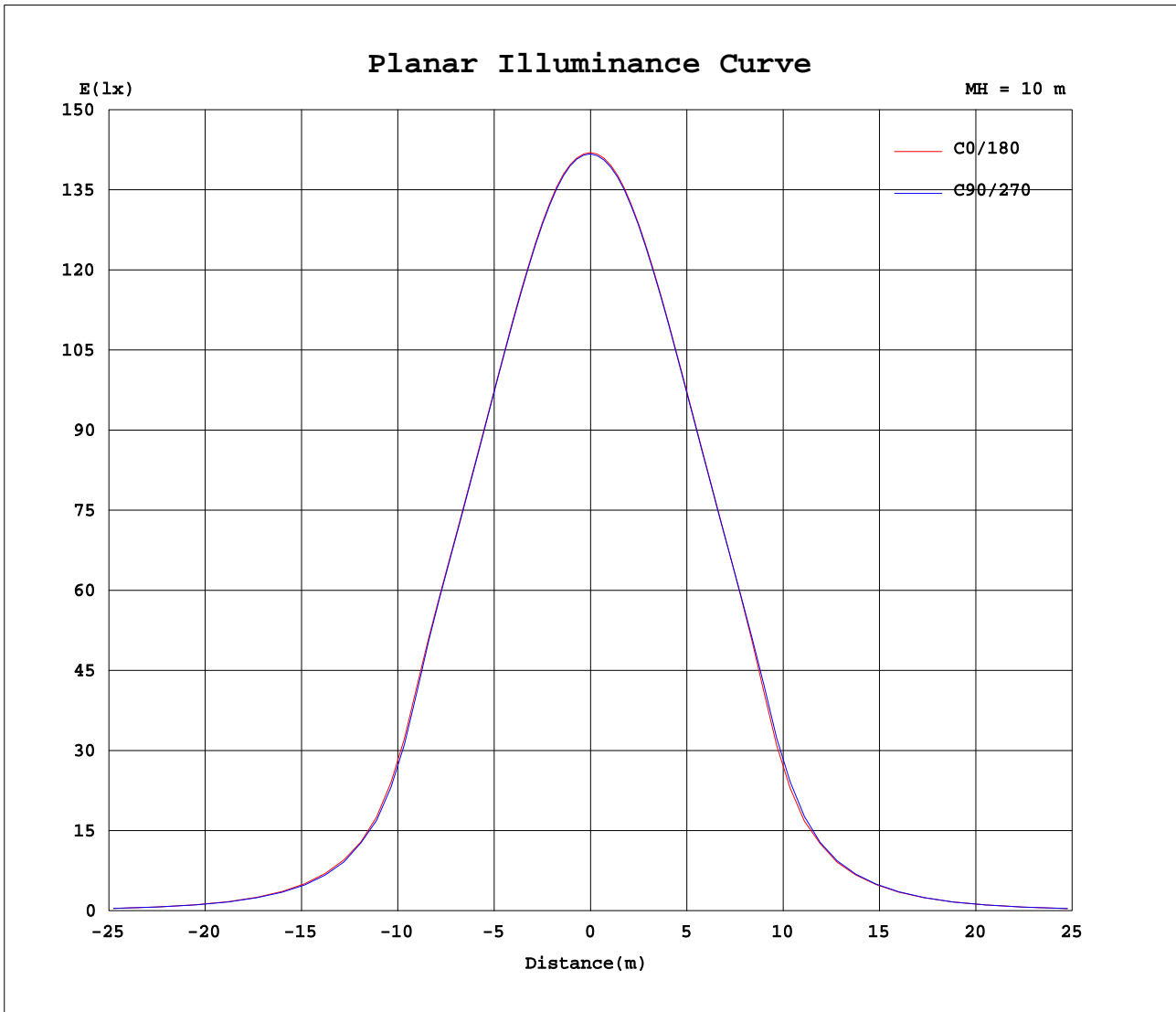
AvgL	cd/m2
L_0~180(65)av	55064
L_0~180(75)av	21187
L_0~180(85)av	3280
L_90~270(65)av	54621
L_90~270(75)av	21377
L_90~270(85)av	3134
L_45(65)av	54960
L_45(75)av	21350
L_45(85)av	3239

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity:65.0%
 Test Distance:9.380m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2016-10-31

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.263
 Humidity: 65.0%
 Test Distance: 9.380m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.1V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:30077.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770090	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1420	1419	1418	1417	1417	1416	1420	1419	1418	1417	1417	1416							
5	1420	1420	1419	1418	1417	1416	1420	1418	1417	1416	1416	1416							
10	1419	1418	1416	1415	1414	1412	1416	1414	1413	1413	1413	1414							
15	1411	1410	1409	1408	1406	1405	1408	1406	1405	1405	1405	1406							
20	1394	1393	1391	1390	1388	1386	1391	1388	1388	1388	1387	1388							
25	1376	1375	1373	1372	1370	1368	1373	1370	1369	1370	1368	1370							
30	1336	1335	1332	1331	1329	1327	1333	1327	1328	1329	1328	1329							
35	1290	1290	1285	1284	1282	1280	1286	1279	1282	1283	1283	1283							
40	1139	1135	1120	1127	1120	1115	1121	1111	1130	1135	1134	1134							
45	866	859	828	836	828	819	833	840	869	869	877	883							
50	486	494	477	479	474	475	475	477	500	483	498	504							
55	346	345	338	331	339	333	331	337	347	340	347	350							
60	204	200	199	196	200	192	195	197	199	198	201	200							
65	134	134	132	132	133	127	130	130	132	130	134	134							
70	65.4	65.4	65.0	64.9	64.6	62.0	63.0	62.9	63.4	63.0	64.1	66.2							
75	34.7	34.8	34.6	34.7	34.3	32.8	32.8	33.3	33.3	33.4	33.6	35.3							
80	9.49	9.49	9.37	9.46	9.36	8.91	8.77	8.93	9.00	9.08	9.21	9.84							
85	2.61	2.51	2.34	2.30	2.35	2.17	2.20	2.23	2.44	2.37	2.43	2.69							
90	0.06	0.06	0.06	0.06	0.06	0.06	0.09	0.08	0.09	0.08	0.09	0.08							
95	0.08	0.09	0.08	0.09	0.08	0.09	0.12	0.11	0.12	0.11	0.12	0.11							
100	0.14	0.15	0.15	0.15	0.15	0.15	0.21	0.20	0.20	0.20	0.20	0.19							
105	0.22	0.22	0.22	0.23	0.22	0.23	0.30	0.30	0.30	0.29	0.30	0.29							
110	0.39	0.39	0.40	0.40	0.40	0.41	0.53	0.53	0.51	0.51	0.51	0.50							
115	0.57	0.57	0.59	0.59	0.59	0.60	0.76	0.76	0.74	0.74	0.74	0.73							
120	0.97	0.98	1.00	1.00	1.00	1.02	1.25	1.24	1.21	1.21	1.21	1.19							
125	1.31	1.32	1.35	1.35	1.35	1.37	1.63	1.62	1.59	1.59	1.59	1.57							
130	1.89	1.90	1.93	1.93	1.93	1.94	2.24	2.24	2.20	2.20	2.19	2.18							
135	2.28	2.28	2.32	2.31	2.32	2.32	2.64	2.64	2.60	2.60	2.59	2.58							
140	2.83	2.83	2.86	2.85	2.86	2.87	3.18	3.17	3.14	3.14	3.13	3.12							
145	3.17	3.17	3.19	3.19	3.20	3.20	3.50	3.50	3.47	3.46	3.45	3.44							
150	3.68	3.68	3.71	3.70	3.72	3.72	3.98	3.97	3.94	3.94	3.93	3.91							
155	4.04	4.04	4.07	4.06	4.07	4.08	4.29	4.28	4.25	4.25	4.25	4.23							
160	4.51	4.50	4.52	4.51	4.52	4.52	4.64	4.64	4.62	4.62	4.61	4.60							
165	4.72	4.71	4.72	4.72	4.72	4.72	4.80	4.79	4.79	4.78	4.77	4.77							
170	4.93	4.93	4.93	4.93	4.92	4.92	4.97	4.96	4.96	4.95	4.95	4.94							
175	5.02	5.02	5.02	5.02	5.01	5.01	5.05	5.04	5.04	5.03	5.03	5.03							
180	5.11	5.10	5.10	5.10	5.09	5.09	5.11	5.10	5.10	5.10	5.09	5.09							

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 γ Interval: 2.0DEG
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