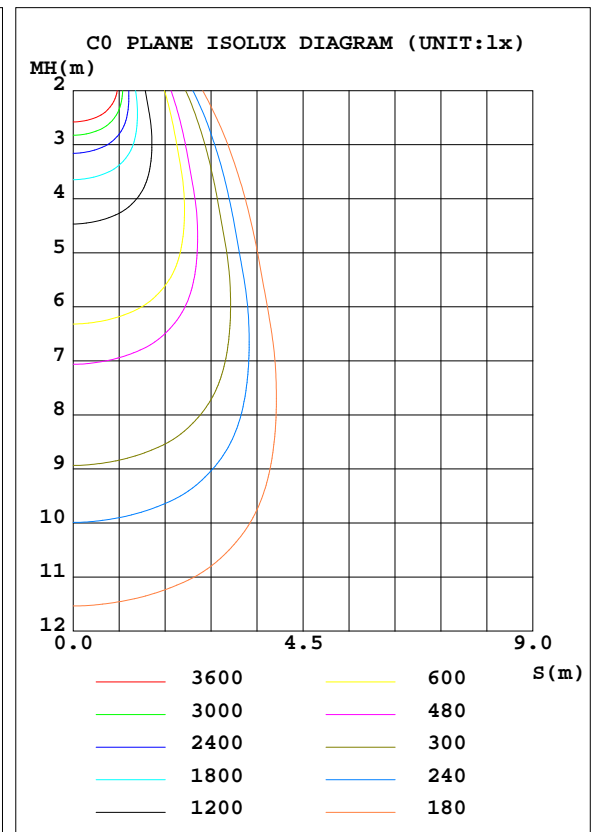
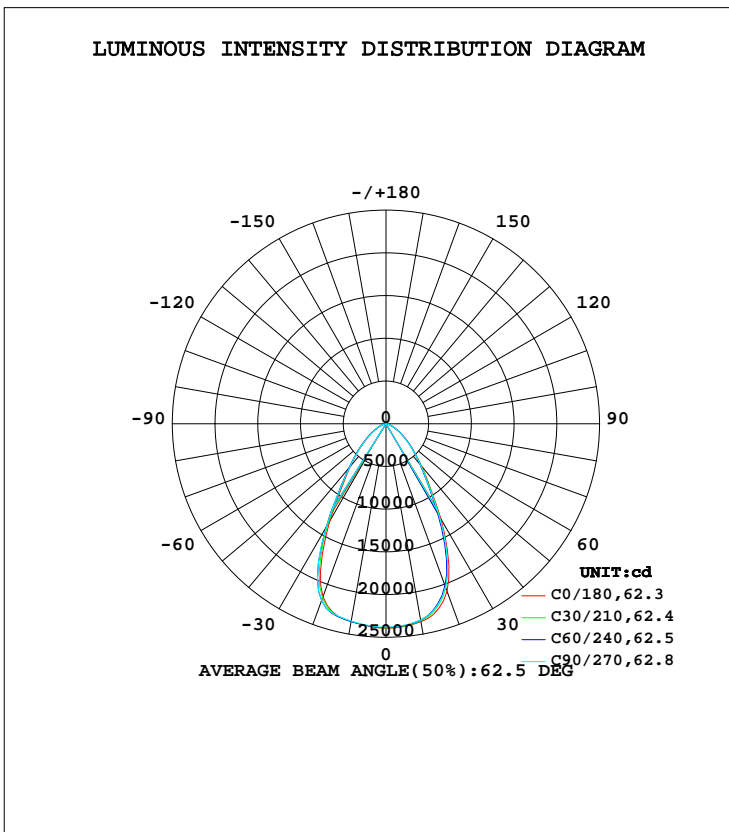


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	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: 146.39 lm/W			
MODEL	HBL200W	I <sub>max</sub> (cd)	23948	S/MH(C0/180)	0.93
NOMINAL POWER(W)	204	LOR(%)	100.0	S/MH(C90/270)	0.95
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	29775	η UP, DN(C0-180)	0.2,48.6
NOMINAL FLUX(lm)	29775.2	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2,51.1
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220.2	η down(%)	99.7	CIBSE SHR MAX	0.95



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	2353	2339	2332	2328	2350	2351	2346	2341	0- 10	2254	2254	7.57,7.57
20	2087	2032	2037	2089	2155	2188	2202	2147	10- 20	6377	8630	29,29
30	1285	1231	1247	1267	1320	1387	1400	1384	20- 30	8008	16638	55.9,55.9
40	647.8	629.6	624.4	623.8	651.1	671.3	663.4	661.6	30- 40	5776	22414	75.3,75.3
50	340.1	336.7	331.2	325.4	337.8	348.7	338.8	344.4	40- 50	3669	26083	87.6,87.6
60	161.7	162.6	160.7	155.3	156.7	163.3	157.5	162.7	50- 60	2157	28240	94.8,94.8
70	60.84	61.64	60.70	57.94	58.83	59.53	57.74	60.59	60- 70	1035	29275	98.3,98.3
80	13.70	14.00	13.65	12.73	12.73	12.74	12.55	13.63	70- 80	347.0	29622	99.5,99.5
90	0.0680	0.0668	0.0657	0.0670	0.0883	0.0847	0.0827	0.0848	80- 90	49.17	29671	99.7,99.7
100	0.1366	0.1405	0.1423	0.1415	0.1903	0.1857	0.1824	0.1785	90-100	1.203	29672	99.7,99.7
110	0.3238	0.3299	0.3264	0.3285	0.4202	0.4117	0.4045	0.3994	100-110	2.670	29675	99.7,99.7
120	0.6860	0.7011	0.6930	0.6950	0.8492	0.8305	0.8214	0.8161	110-120	5.393	29680	99.7,99.7
130	1.354	1.400	1.397	1.393	1.636	1.589	1.585	1.587	120-130	9.707	29690	99.7,99.7
140	2.537	2.614	2.631	2.596	2.908	2.820	2.825	2.849	130-140	15.91	29706	99.8,99.8
150	4.012	4.100	4.118	4.064	4.420	4.307	4.311	4.350	140-150	21.56	29728	99.8,99.8
160	5.473	5.566	5.591	5.542	5.839	5.745	5.746	5.778	150-160	22.65	29750	99.9,99.9
170	6.985	7.063	7.090	7.030	7.189	7.109	7.114	7.148	160-170	17.90	29768	100,100
180	7.804	7.809	7.816	7.795	7.818	7.808	7.804	7.796	170-180	7.088	29775	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 24820 lm

%lum = 83.4%  
%lamp = 83.4%

Conical surface Flux(120deg): 28240 lm

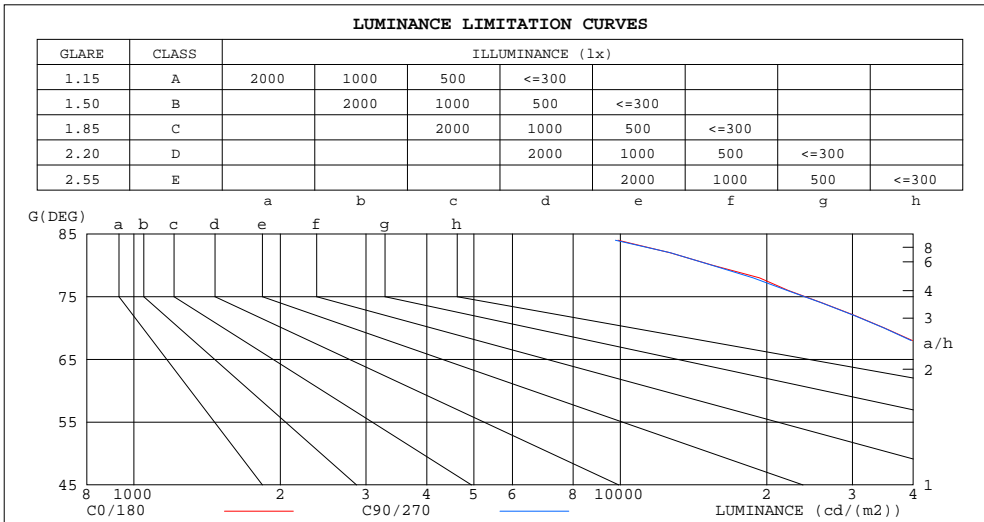
%lum = 94.8%  
%lamp = 94.8%

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:

LUMINANCE LIMITATION CURVES

Test:U:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	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	11863	11715
80	15464	15415
75	27717	27655
70	34880	34801
65	52738	52288
60	63408	63022
55	88432	86687
50	103749	101034
45	139336	135598

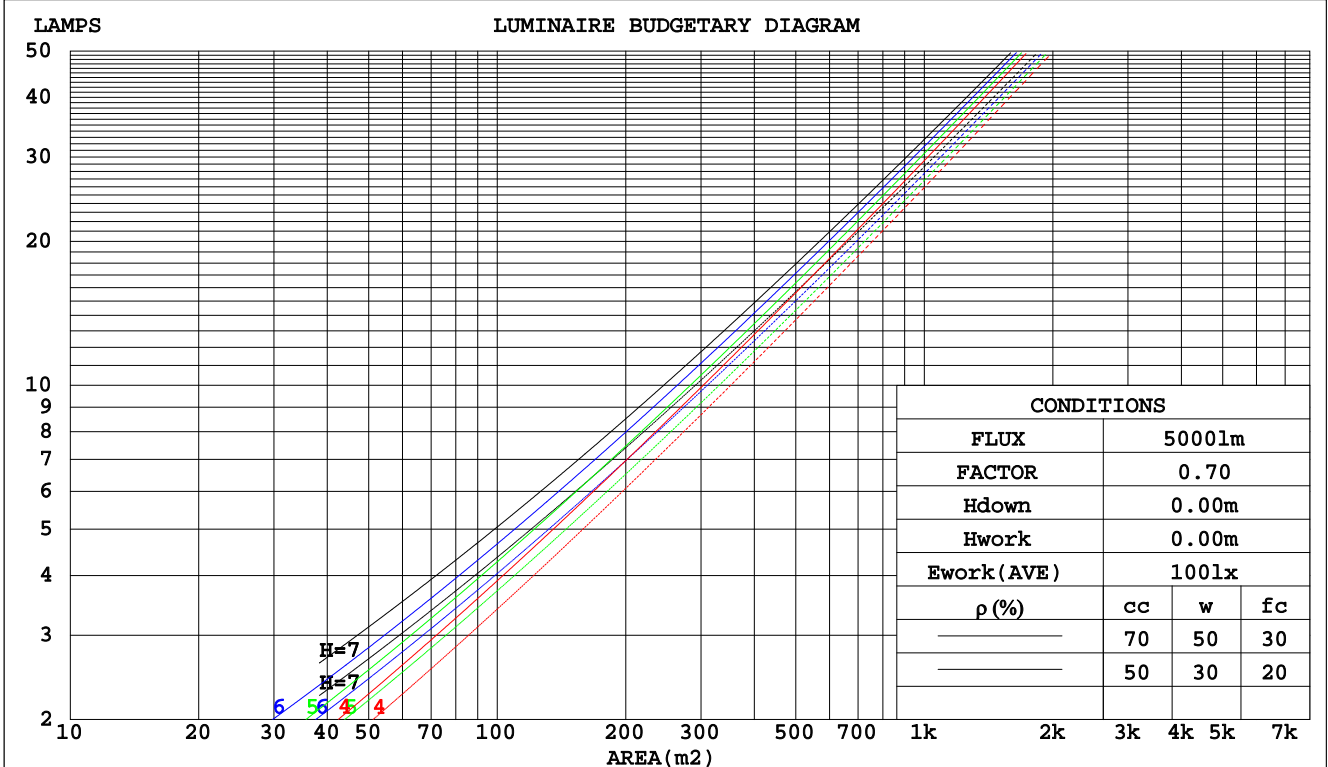
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2016-10-31

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:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	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	1.09	1.06	1.03	1.07	1.04	1.02	1.03	1.00	.98	.99	.97	.95	.95	.94	.93	.91
2.0	.99	.95	.91	.98	.93	.89	.94	.91	.87	.91	.88	.85	.88	.86	.84	.82
3.0	.91	.85	.80	.90	.84	.80	.87	.82	.78	.84	.80	.77	.82	.79	.76	.74
4.0	.84	.77	.72	.82	.76	.72	.80	.75	.71	.78	.73	.70	.76	.72	.69	.67
5.0	.77	.70	.65	.76	.70	.65	.74	.69	.64	.72	.67	.64	.71	.66	.63	.61
6.0	.71	.64	.59	.71	.64	.59	.69	.63	.59	.67	.62	.58	.66	.61	.58	.56
7.0	.66	.59	.55	.66	.59	.54	.64	.58	.54	.63	.58	.54	.62	.57	.53	.52
8.0	.62	.55	.50	.61	.55	.50	.60	.54	.50	.59	.54	.50	.58	.53	.49	.48
9.0	.58	.51	.47	.57	.51	.47	.56	.51	.46	.55	.50	.46	.54	.50	.46	.45
10.0	.54	.48	.43	.54	.48	.43	.53	.47	.43	.52	.47	.43	.51	.46	.43	.41



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:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	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	.212	.120	.038	.205	.117	.037	.192	.110	.035	.180	.104	.033	.169	.098	.032	
2.0	.205	.112	.034	.199	.110	.034	.188	.104	.032	.178	.100	.031	.168	.095	.030	
3.0	.195	.104	.031	.190	.102	.031	.180	.098	.030	.171	.094	.029	.163	.090	.028	
4.0	.184	.096	.028	.180	.094	.028	.172	.091	.027	.164	.088	.027	.157	.085	.026	
5.0	.174	.089	.026	.171	.088	.026	.163	.085	.025	.156	.082	.025	.150	.080	.024	
6.0	.165	.083	.024	.162	.082	.024	.155	.080	.023	.149	.077	.023	.143	.075	.022	
7.0	.157	.077	.022	.153	.076	.022	.148	.075	.021	.142	.073	.021	.137	.071	.021	
8.0	.149	.073	.020	.146	.072	.020	.141	.070	.020	.136	.069	.020	.131	.067	.020	
9.0	.141	.068	.019	.139	.068	.019	.134	.066	.019	.130	.065	.019	.126	.064	.018	
10.0	.135	.065	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018	.120	.061	.017	

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	.176	.160	.145	.151	.137	.125	.103	.094	.086	.059	.055	.050	.019	.018	.016	
2.0	.163	.135	.111	.140	.116	.096	.096	.080	.067	.055	.047	.039	.018	.015	.013	
3.0	.153	.117	.088	.131	.101	.076	.090	.070	.053	.052	.041	.031	.017	.013	.010	
4.0	.144	.102	.071	.123	.088	.061	.085	.062	.043	.049	.036	.026	.016	.012	.008	
5.0	.136	.091	.058	.117	.079	.051	.080	.055	.036	.046	.032	.021	.015	.011	.007	
6.0	.129	.082	.049	.111	.071	.043	.076	.050	.030	.044	.029	.018	.014	.010	.006	
7.0	.122	.075	.042	.105	.065	.036	.073	.046	.026	.042	.027	.015	.014	.009	.005	
8.0	.116	.069	.036	.100	.060	.032	.069	.042	.022	.040	.025	.013	.013	.008	.004	
9.0	.111	.064	.032	.096	.055	.028	.066	.039	.020	.039	.023	.012	.013	.008	.004	
10.0	.106	.059	.028	.092	.052	.025	.064	.036	.018	.037	.021	.010	.012	.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:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	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	14.5	15.6	14.7	15.8	16.0	14.4	15.5	14.6	15.7	15.9
3H	14.8	15.8	15.0	16.0	16.2	14.7	15.7	15.0	15.9	16.2
4H	14.8	15.8	15.1	16.0	16.2	14.7	15.7	15.0	15.9	16.2
6H	14.8	15.7	15.1	15.9	16.2	14.7	15.6	15.0	15.9	16.1
8H	14.7	15.6	15.0	15.9	16.2	14.7	15.5	15.0	15.8	16.1
12H	14.7	15.5	15.0	15.8	16.1	14.6	15.5	15.0	15.7	16.0
4H 2H	14.6	15.6	14.9	15.8	16.0	14.5	15.5	14.8	15.7	16.0
3H	15.0	15.8	15.3	16.1	16.4	14.9	15.8	15.2	16.0	16.3
4H	15.0	15.8	15.4	16.1	16.4	15.0	15.8	15.3	16.1	16.4
6H	15.0	15.7	15.4	16.1	16.4	15.0	15.7	15.4	16.0	16.4
8H	15.0	15.6	15.4	16.0	16.4	15.0	15.6	15.4	15.9	16.3
12H	15.0	15.5	15.4	15.9	16.3	14.9	15.5	15.3	15.9	16.3
8H 4H	15.0	15.6	15.4	16.0	16.4	14.9	15.6	15.3	15.9	16.3
6H	15.0	15.5	15.4	15.9	16.4	15.0	15.5	15.4	15.9	16.3
8H	15.0	15.4	15.5	15.9	16.3	14.9	15.4	15.4	15.8	16.3
12H	15.0	15.3	15.4	15.8	16.3	14.9	15.3	15.4	15.7	16.2
12H 4H	14.9	15.5	15.4	15.9	16.3	14.9	15.5	15.3	15.9	16.3
6H	15.0	15.4	15.4	15.9	16.3	14.9	15.4	15.4	15.8	16.3
8H	15.0	15.3	15.4	15.8	16.3	14.9	15.3	15.4	15.7	16.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.4					+ 0.9 / - 1.3				
1.5H	+ 1.0 / - 0.8					+ 0.9 / - 0.7				
2.0H	+ 1.9 / - 1.8					+ 1.8 / - 1.6				

CIE Pub.117, 29775 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:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

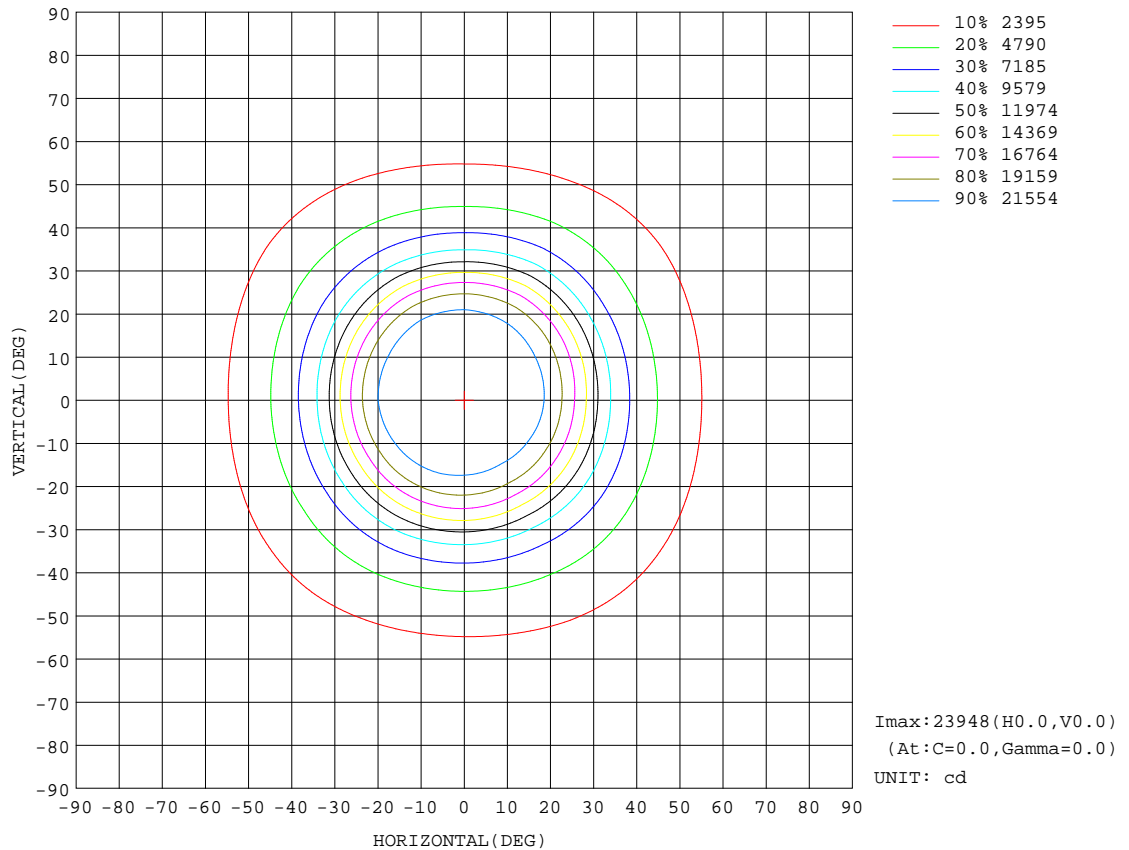
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	76	68	63	75	67	62	74	67	62	58
0.80	85	77	72	84	76	72	83	76	71	66
1.00	91	84	79	90	83	79	88	84	78	73
1.25	97	90	85	95	89	85	93	88	84	78
1.50	100	94	89	99	93	89	96	91	88	82
2.00	104	99	95	103	98	94	100	96	92	86
2.50	107	102	98	105	100	97	102	98	95	88
3.00	109	104	101	107	103	100	103	100	98	90
4.00	111	108	105	109	106	103	105	103	101	93
5.00	113	110	107	111	108	106	107	104	103	94
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:DAMIN  
 Test Date:2016-10-31

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



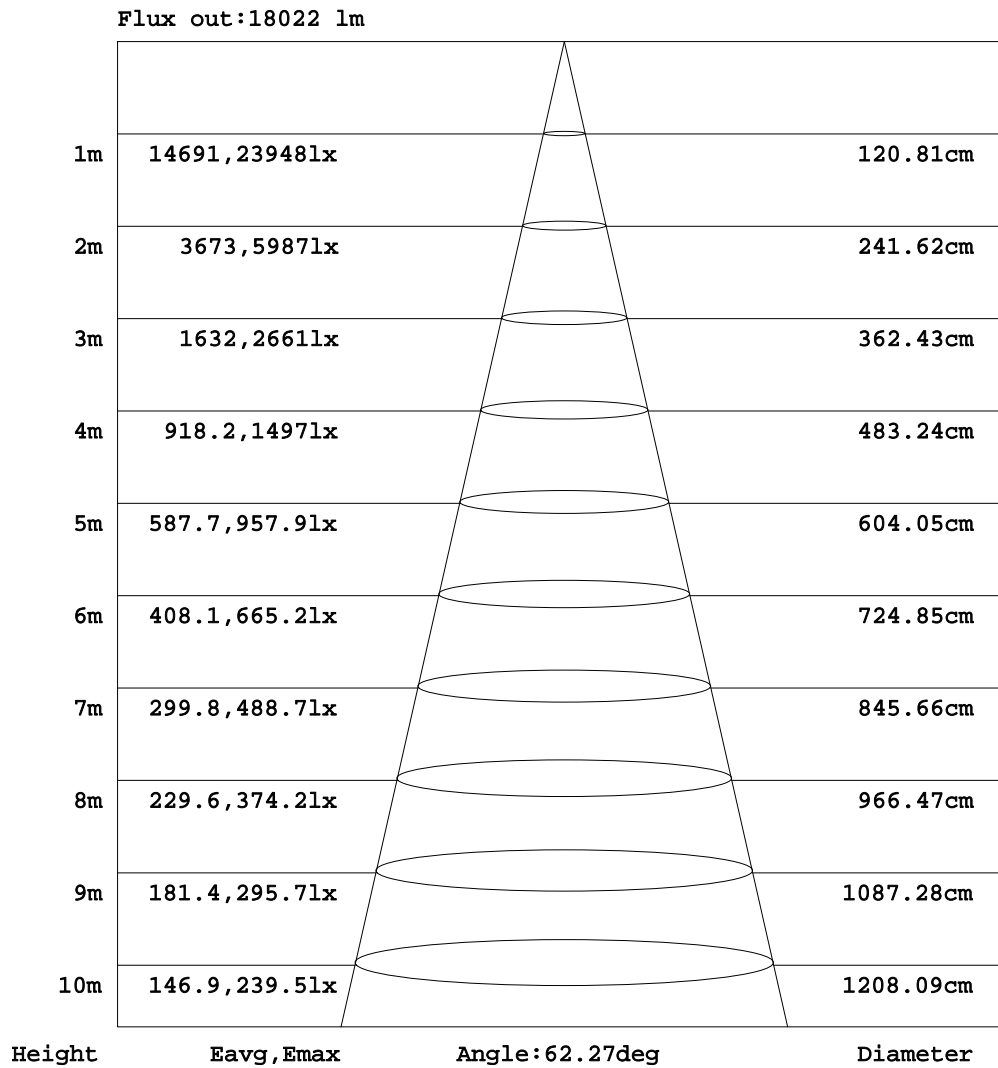
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2016-10-31

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:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



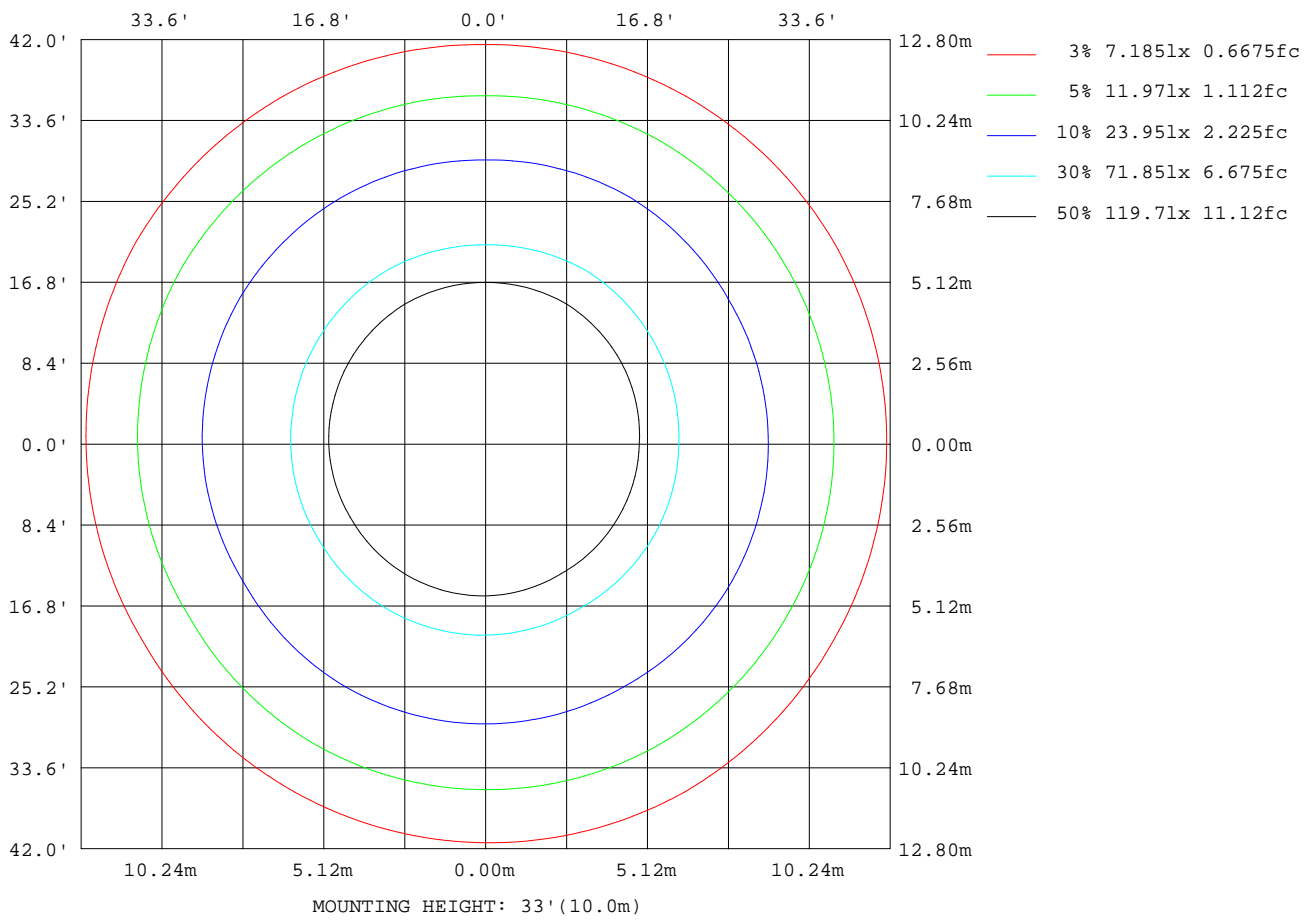
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	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:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

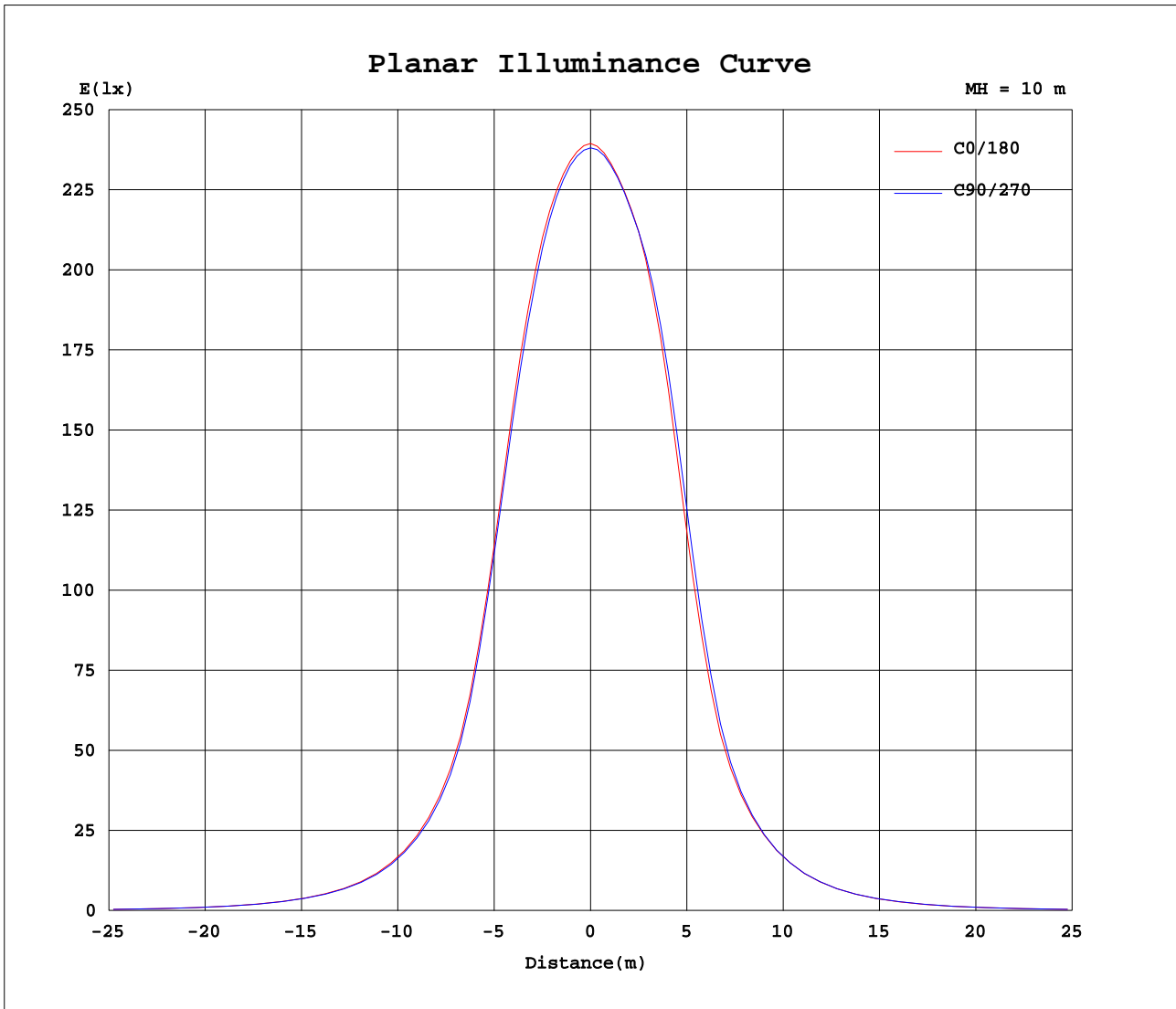
AvgL	cd/m2
L_0~180(65)av	47187
L_0~180(75)av	23329
L_0~180(85)av	7739
L_90~270(65)av	46815
L_90~270(75)av	23156
L_90~270(85)av	7633
L_45(65)av	47571
L_45(75)av	23469
L_45(85)av	7661

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

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:220.2V I:0.9470A P:203.4W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770060	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	2395	2391	2385	2381	2377	2373	2395	2391	2385	2381	2377	2373							
5	2386	2383	2378	2372	2366	2361	2383	2381	2380	2375	2371	2366							
10	2353	2344	2334	2332	2329	2328	2350	2351	2351	2346	2343	2339							
15	2299	2275	2259	2264	2275	2290	2322	2325	2327	2321	2312	2300							
20	2087	2045	2020	2037	2071	2108	2155	2171	2204	2202	2171	2122							
25	1811	1767	1742	1769	1795	1821	1885	1925	1975	1973	1953	1887							
30	1285	1249	1213	1247	1263	1272	1320	1366	1408	1400	1421	1346							
35	953	939	904	920	937	931	966	1004	1030	1023	1050	993							
40	648	640	619	624	629	619	651	670	672	663	675	648							
45	502	497	487	489	487	479	504	519	517	507	518	504							
50	340	335	338	331	329	322	338	351	346	339	344	345							
55	259	255	259	254	248	245	253	266	262	253	256	264							
60	162	161	164	161	156	155	157	164	163	158	160	165							
65	114	114	116	113	109	108	110	113	114	109	112	116							
70	60.8	61.2	62.1	60.7	58.4	57.5	58.8	59.3	59.7	57.7	59.2	62.0							
75	36.6	37.1	37.4	36.5	35.1	34.0	34.7	35.1	35.2	34.3	35.3	37.2							
80	13.7	14.2	13.8	13.7	13.1	12.3	12.7	12.6	12.9	12.5	13.3	14.0							
85	5.27	5.47	5.24	5.21	4.75	4.38	4.56	4.31	4.65	4.49	4.89	5.32							
90	0.07	0.07	0.07	0.07	0.07	0.07	0.09	0.08	0.09	0.08	0.08	0.08							
95	0.08	0.09	0.08	0.09	0.08	0.09	0.12	0.11	0.12	0.11	0.11	0.10							
100	0.14	0.14	0.14	0.14	0.14	0.15	0.19	0.18	0.19	0.18	0.18	0.17							
105	0.20	0.20	0.20	0.20	0.20	0.21	0.26	0.26	0.26	0.25	0.25	0.24							
110	0.32	0.33	0.33	0.33	0.32	0.33	0.42	0.41	0.41	0.40	0.40	0.40							
115	0.44	0.45	0.45	0.45	0.45	0.45	0.56	0.55	0.55	0.54	0.54	0.53							
120	0.69	0.70	0.71	0.69	0.70	0.69	0.85	0.84	0.82	0.82	0.82	0.82							
125	0.90	0.92	0.93	0.92	0.93	0.92	1.11	1.09	1.06	1.07	1.06	1.07							
130	1.35	1.38	1.42	1.40	1.40	1.38	1.64	1.61	1.57	1.59	1.58	1.59							
135	1.77	1.80	1.85	1.83	1.84	1.80	2.09	2.05	2.01	2.03	2.03	2.05							
140	2.54	2.58	2.65	2.63	2.62	2.57	2.91	2.85	2.79	2.83	2.83	2.87							
145	3.12	3.16	3.24	3.22	3.20	3.15	3.51	3.43	3.38	3.41	3.42	3.46							
150	4.01	4.06	4.14	4.12	4.09	4.04	4.42	4.33	4.28	4.31	4.33	4.37							
155	4.60	4.65	4.72	4.70	4.68	4.63	5.00	4.92	4.86	4.89	4.91	4.95							
160	5.47	5.54	5.60	5.59	5.57	5.52	5.84	5.77	5.72	5.75	5.76	5.79							
165	6.09	6.15	6.21	6.21	6.18	6.13	6.40	6.33	6.29	6.32	6.33	6.36							
170	6.98	7.04	7.09	7.09	7.06	7.00	7.19	7.12	7.10	7.11	7.14	7.16							
175	7.46	7.49	7.53	7.53	7.49	7.46	7.58	7.53	7.51	7.52	7.54	7.55							
180	7.80	7.82	7.80	7.82	7.80	7.79	7.82	7.80	7.82	7.80	7.81	7.78							

C Range: 0 - 360DEG  
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