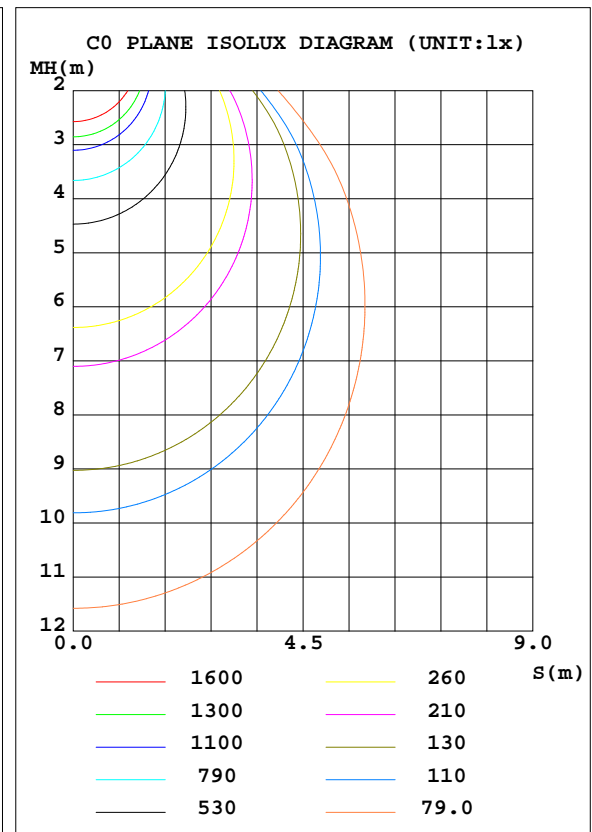
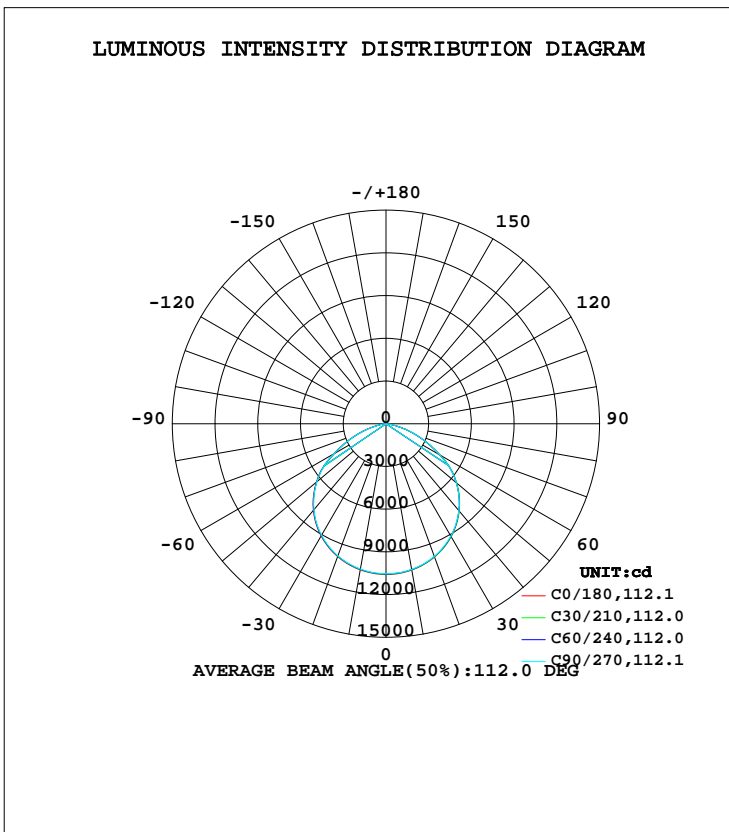


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770120	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: 141.08 lm/W			
MODEL	HBL200W	I <sub>max</sub> (cd)	10589	S/MH(C0/180)	1.28
NOMINAL POWER(W)	204	LOR(%)	96.3	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	28681	η UP, DN(C0-180)	0.2,48.2
NOMINAL FLUX(lm)	29775.2	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.2,47.8
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.3	η down(%)	96.0	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	1044	1041	1039	1035	1042	1039	1037	1036	0- 10	999.2	999.2	3.48,3.36
20	996.1	994.6	991.8	987.1	993.5	989.9	987.9	988.9	10- 20	2877	3876	13.5,13
30	915.3	914.0	911.1	904.9	911.5	907.3	905.2	908.2	20- 30	4399	8275	28.9,27.8
40	799.3	798.8	796.7	788.5	793.9	789.7	788.0	792.9	30- 40	5351	13626	47.5,45.8
50	646.8	646.8	645.2	635.3	638.7	635.1	633.9	640.7	40- 50	5556	19182	66.9,64.4
60	438.3	437.3	432.6	422.9	422.6	421.0	424.1	435.3	50- 60	4854	24037	83.8,80.7
70	218.2	218.4	217.4	208.9	208.1	205.7	206.8	214.6	60- 70	3135	27171	94.7,91.3
80	46.39	48.15	49.17	42.85	44.33	41.46	41.08	47.13	70- 80	1279	28450	99.2,95.5
90	0.1437	0.1396	0.1417	0.1444	0.2026	0.2015	0.1982	0.1934	80- 90	132.7	28582	99.7,96
100	0.3771	0.3733	0.3764	0.3894	0.5044	0.5026	0.4981	0.4804	90-100	3.113	28585	99.7,96
110	0.8083	0.8016	0.8038	0.8235	0.9927	0.9905	0.9842	0.9573	100-110	6.909	28592	99.7,96
120	1.342	1.332	1.331	1.354	1.559	1.556	1.549	1.518	110-120	11.52	28604	99.7,96.1
130	1.896	1.882	1.879	1.899	2.105	2.101	2.093	2.061	120-130	15.37	28619	99.8,96.1
140	2.406	2.394	2.390	2.406	2.586	2.578	2.566	2.539	130-140	17.29	28636	99.8,96.2
150	2.850	2.839	2.836	2.845	2.986	2.974	2.963	2.943	140-150	16.90	28653	99.9,96.2
160	3.229	3.220	3.216	3.219	3.316	3.303	3.292	3.275	150-160	14.23	28668	100,96.3
170	3.533	3.523	3.516	3.513	3.575	3.561	3.551	3.539	160-170	9.606	28677	100,96.3
180	3.691	3.682	3.677	3.667	3.696	3.682	3.672	3.667	170-180	3.436	28681	100,96.3
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 16989 lm

%lum = 59.2%  
%lamp = 57.1%

Conical surface Flux(120deg): 24037 lm

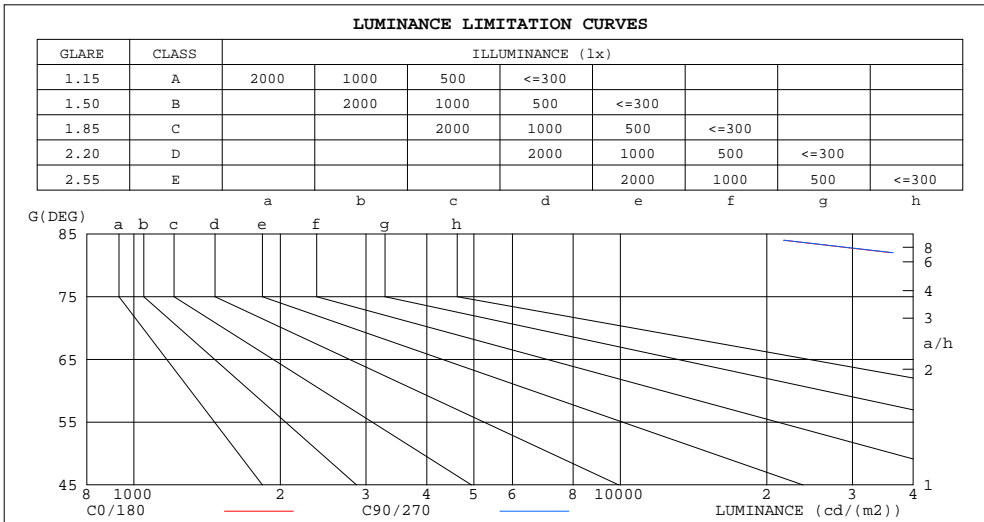
%lum = 83.8%  
%lamp = 80.7%

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:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770120	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	25965	26037
80	52379	55517
75	107085	107910
70	125096	124653
65	159990	158968
60	171875	169654
55	196688	196074
50	197315	196807
45	205911	205360

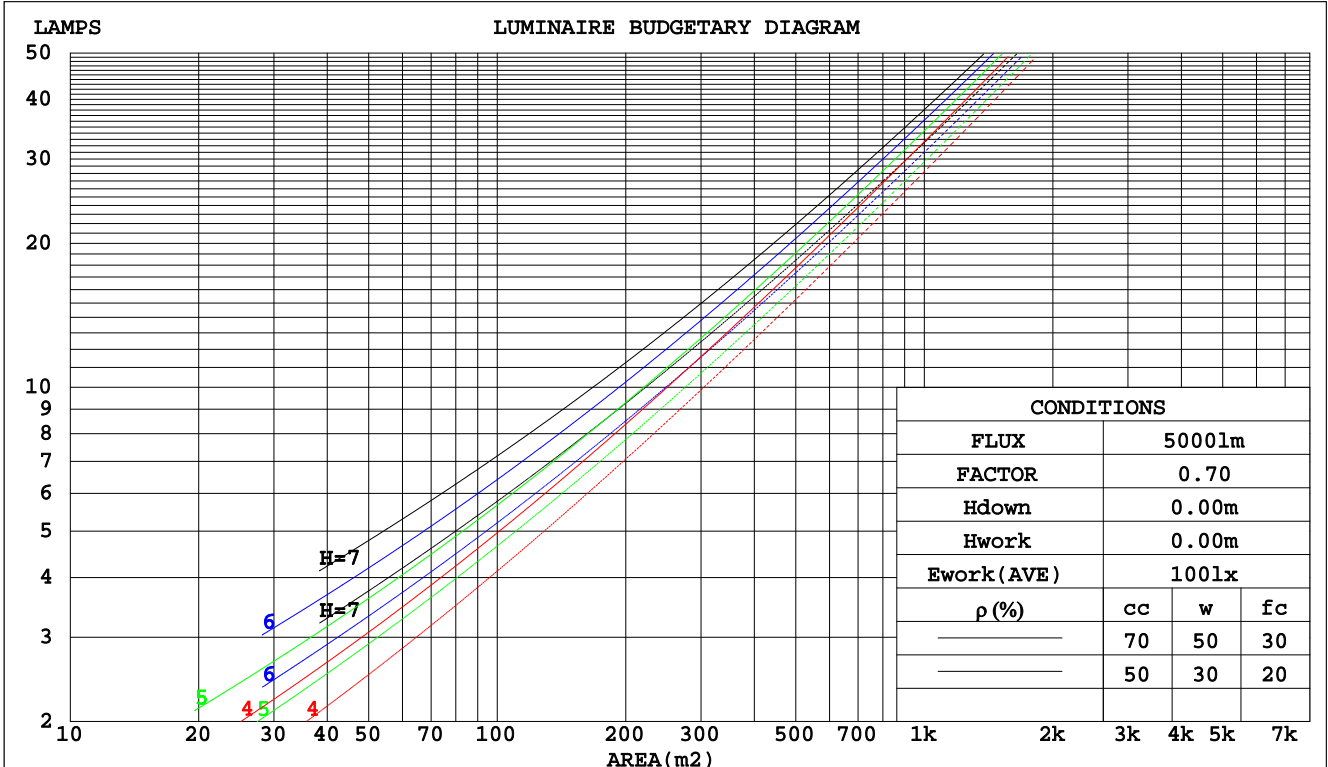
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2016-10-31

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:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770120	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																0
RCR	RCR:Room Cavity Ratio      Coefficients of Utilization(CU)															
0.0	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	.98	.98	.98	.96
1.0	1.01	.98	.94	.99	.96	.93	.95	.92	.90	.91	.89	.87	.88	.86	.84	.82
2.0	.89	.83	.78	.87	.82	.77	.84	.79	.75	.81	.77	.73	.78	.75	.72	.70
3.0	.79	.71	.65	.77	.70	.65	.74	.68	.63	.72	.66	.62	.69	.65	.61	.59
4.0	.70	.62	.55	.68	.61	.55	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
5.0	.62	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.46	.56	.50	.46	.44
6.0	.56	.48	.42	.55	.47	.42	.54	.46	.41	.52	.46	.41	.50	.45	.40	.38
7.0	.51	.43	.37	.50	.42	.37	.49	.42	.36	.47	.41	.36	.46	.40	.36	.34
8.0	.46	.38	.33	.46	.38	.33	.44	.38	.33	.43	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.30	.42	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.39	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.36	.30	.26	.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:

WEC AND CCEC

Test:U:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770120	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	.269	.153	.049	.262	.150	.048	.250	.143	.046	.238	.137	.044	.227	.132	.042	
2.0	.261	.143	.044	.255	.140	.043	.244	.136	.042	.233	.131	.041	.224	.127	.040	
3.0	.246	.131	.039	.241	.129	.039	.231	.125	.038	.221	.121	.037	.213	.118	.036	
4.0	.230	.119	.035	.225	.118	.035	.216	.115	.034	.208	.112	.034	.200	.109	.033	
5.0	.214	.109	.032	.210	.108	.031	.202	.105	.031	.195	.103	.031	.188	.100	.030	
6.0	.200	.100	.029	.196	.099	.028	.189	.097	.028	.182	.095	.028	.176	.093	.028	
7.0	.187	.092	.026	.183	.091	.026	.177	.090	.026	.171	.088	.026	.166	.086	.025	
8.0	.175	.086	.024	.172	.085	.024	.166	.083	.024	.161	.082	.024	.156	.080	.023	
9.0	.165	.080	.022	.162	.079	.022	.157	.078	.022	.152	.076	.022	.148	.075	.022	
10.0	.155	.074	.021	.153	.074	.021	.148	.073	.020	.144	.071	.020	.140	.070	.020	

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	.186	.186	.186	.159	.159	.159	.108	.108	.108	.062	.062	.062	.020	.020	.020	
1.0	.174	.153	.134	.149	.131	.116	.102	.090	.080	.059	.052	.046	.019	.017	.015	
2.0	.166	.130	.099	.142	.112	.086	.097	.077	.060	.056	.045	.035	.018	.015	.011	
3.0	.158	.113	.076	.136	.097	.066	.093	.067	.046	.054	.039	.027	.017	.013	.009	
4.0	.151	.100	.060	.130	.086	.052	.089	.060	.037	.052	.035	.022	.017	.011	.007	
5.0	.144	.090	.049	.124	.077	.043	.085	.054	.030	.049	.032	.018	.016	.010	.006	
6.0	.138	.081	.041	.118	.071	.036	.082	.049	.025	.047	.029	.015	.015	.009	.005	
7.0	.131	.075	.035	.113	.065	.031	.078	.045	.022	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.031	.108	.060	.027	.075	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.120	.064	.027	.103	.056	.024	.071	.039	.017	.042	.023	.010	.013	.008	.003	
10.0	.114	.060	.024	.099	.052	.021	.068	.037	.015	.040	.022	.009	.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:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm										
NAME: HBL200W				TYPE:LED				WEIGHT:4.8		
SPEC.:5770120				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	19.3	20.8	19.6	21.0	21.2	19.3	20.7	19.5	20.9	21.2
3H	20.3	21.7	20.6	21.9	22.2	20.3	21.6	20.6	21.9	22.1
4H	20.6	21.9	20.9	22.1	22.4	20.6	21.8	20.9	22.1	22.3
6H	20.6	21.8	21.0	22.1	22.4	20.6	21.8	20.9	22.1	22.4
8H	20.6	21.8	21.0	22.1	22.4	20.6	21.7	20.9	22.0	22.3
12H	20.6	21.7	20.9	22.0	22.3	20.5	21.6	20.9	21.9	22.2
4H 2H	19.8	21.1	20.1	21.3	21.6	19.7	21.0	20.1	21.3	21.5
3H	20.9	22.1	21.3	22.4	22.7	20.9	22.0	21.3	22.3	22.6
4H	21.3	22.3	21.7	22.6	22.9	21.2	22.2	21.6	22.6	22.9
6H	21.4	22.3	21.8	22.6	23.0	21.3	22.2	21.7	22.6	22.9
8H	21.4	22.2	21.8	22.6	22.9	21.3	22.1	21.7	22.5	22.9
12H	21.3	22.1	21.8	22.5	22.9	21.3	22.0	21.7	22.4	22.8
8H 4H	21.3	22.2	21.8	22.5	22.9	21.3	22.1	21.7	22.5	22.9
6H	21.5	22.2	21.9	22.6	23.0	21.5	22.1	21.9	22.5	23.0
8H	21.5	22.1	22.0	22.5	23.0	21.5	22.0	21.9	22.5	22.9
12H	21.5	22.0	22.0	22.4	22.9	21.4	21.9	21.9	22.4	22.9
12H 4H	21.3	22.1	21.7	22.5	22.9	21.3	22.0	21.7	22.4	22.8
6H	21.5	22.1	21.9	22.5	23.0	21.4	22.0	21.9	22.5	22.9
8H	21.5	22.0	22.0	22.4	22.9	21.4	21.9	21.9	22.4	22.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.5				
2.0H	+ 0.5 / - 0.5					+ 0.5 / - 0.5				

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:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770120	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

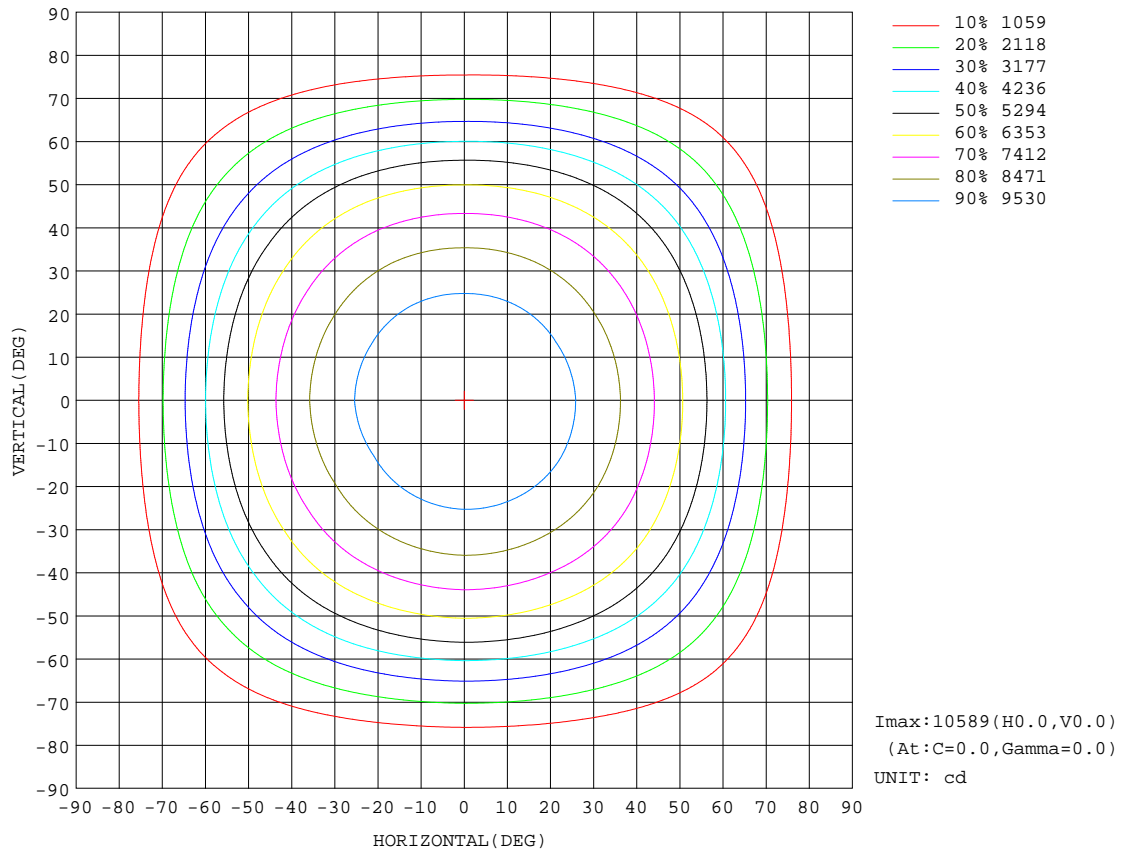
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	56	45	39	55	45	39	33
0.80	67	56	49	66	55	49	64	55	48	42
1.00	75	65	58	74	64	58	72	65	57	51
1.25	82	72	66	81	72	66	78	70	65	58
1.50	87	78	72	85	77	71	82	75	70	63
2.00	93	86	80	92	85	79	88	82	78	70
2.50	97	90	85	95	89	84	91	86	82	74
3.00	100	94	89	98	92	88	94	90	86	78
4.00	104	99	94	101	97	93	97	94	90	82
5.00	106	101	98	103	100	96	99	96	93	85
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:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770120	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



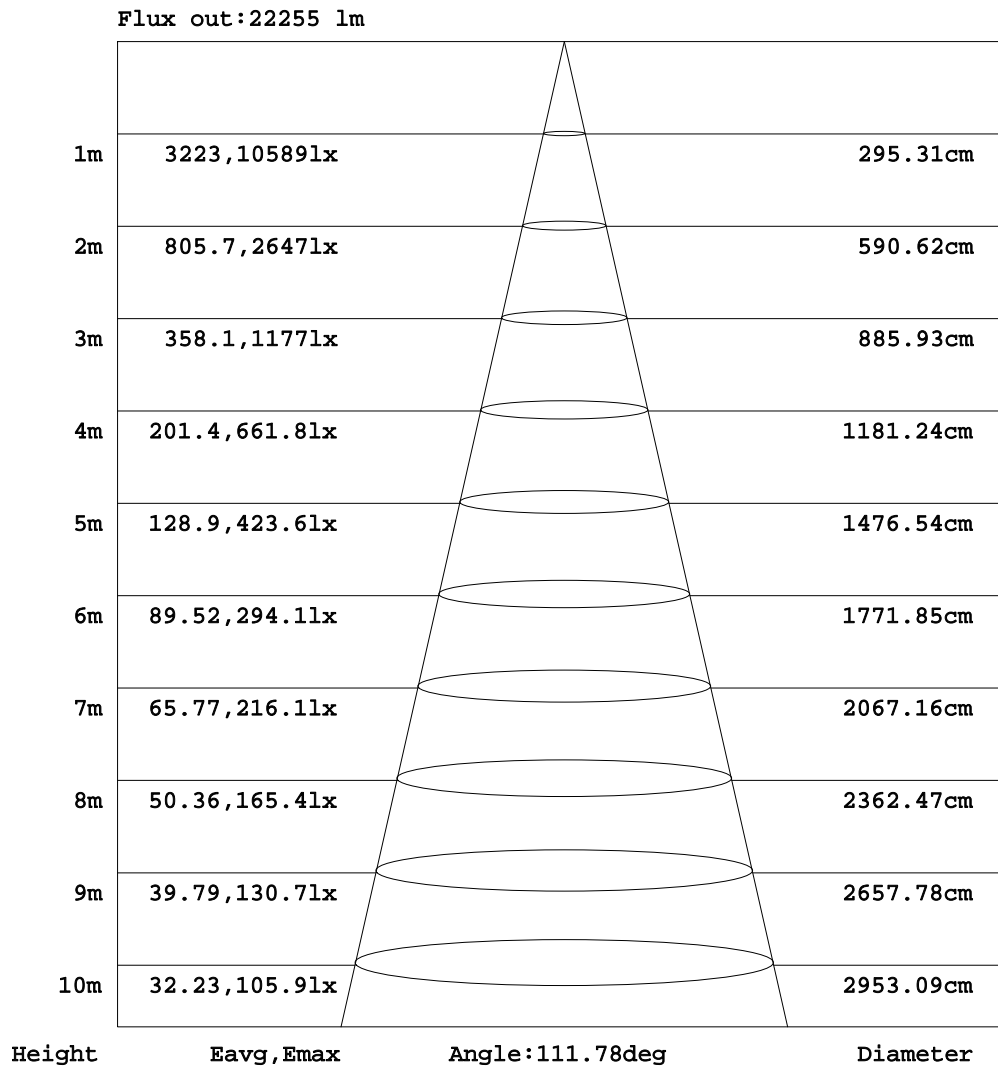
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2016-10-31

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:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770120	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



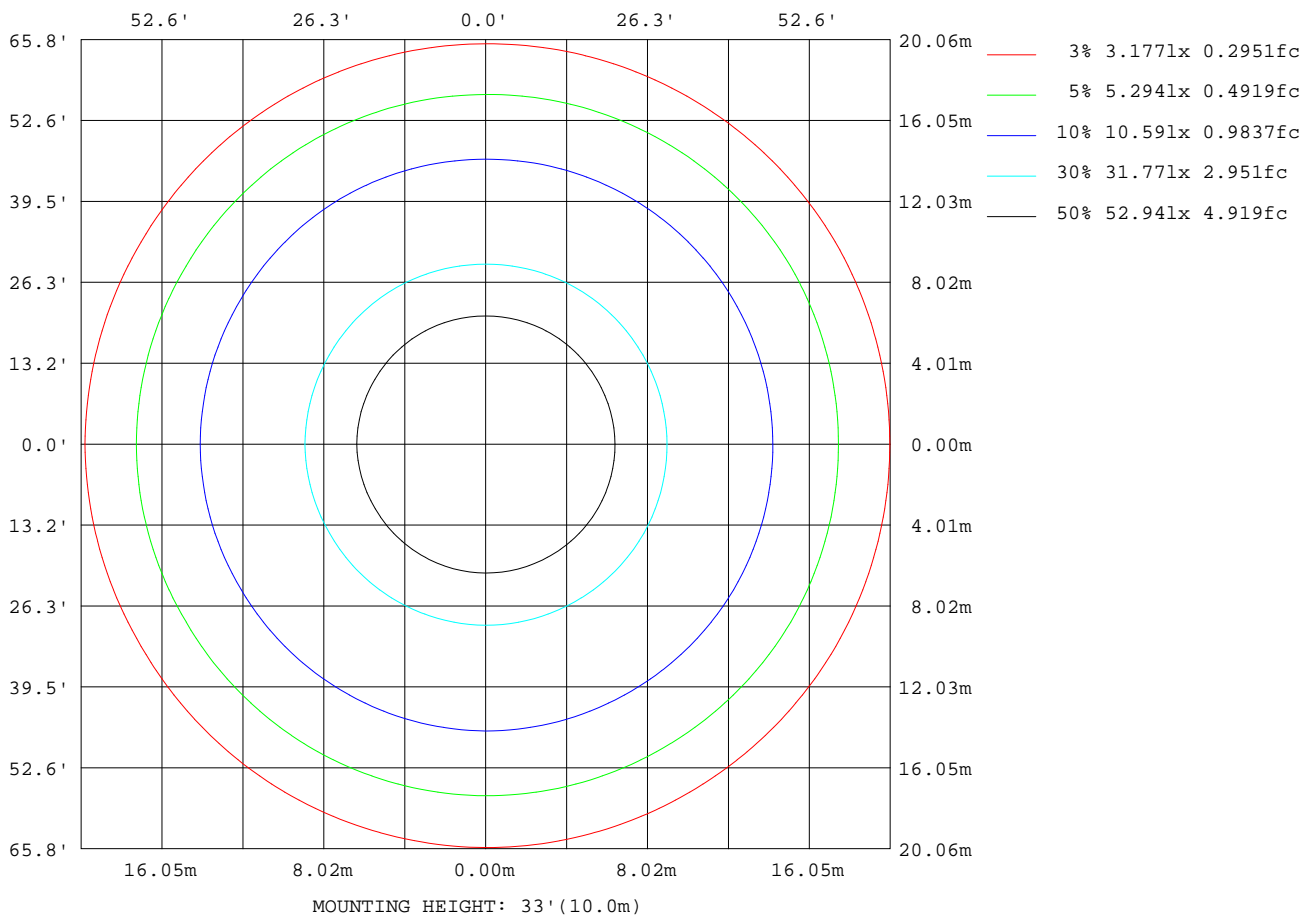
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770120	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:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770120	DIM.: 330*330*240	SERIAL No.:001
MFR.: LJ	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

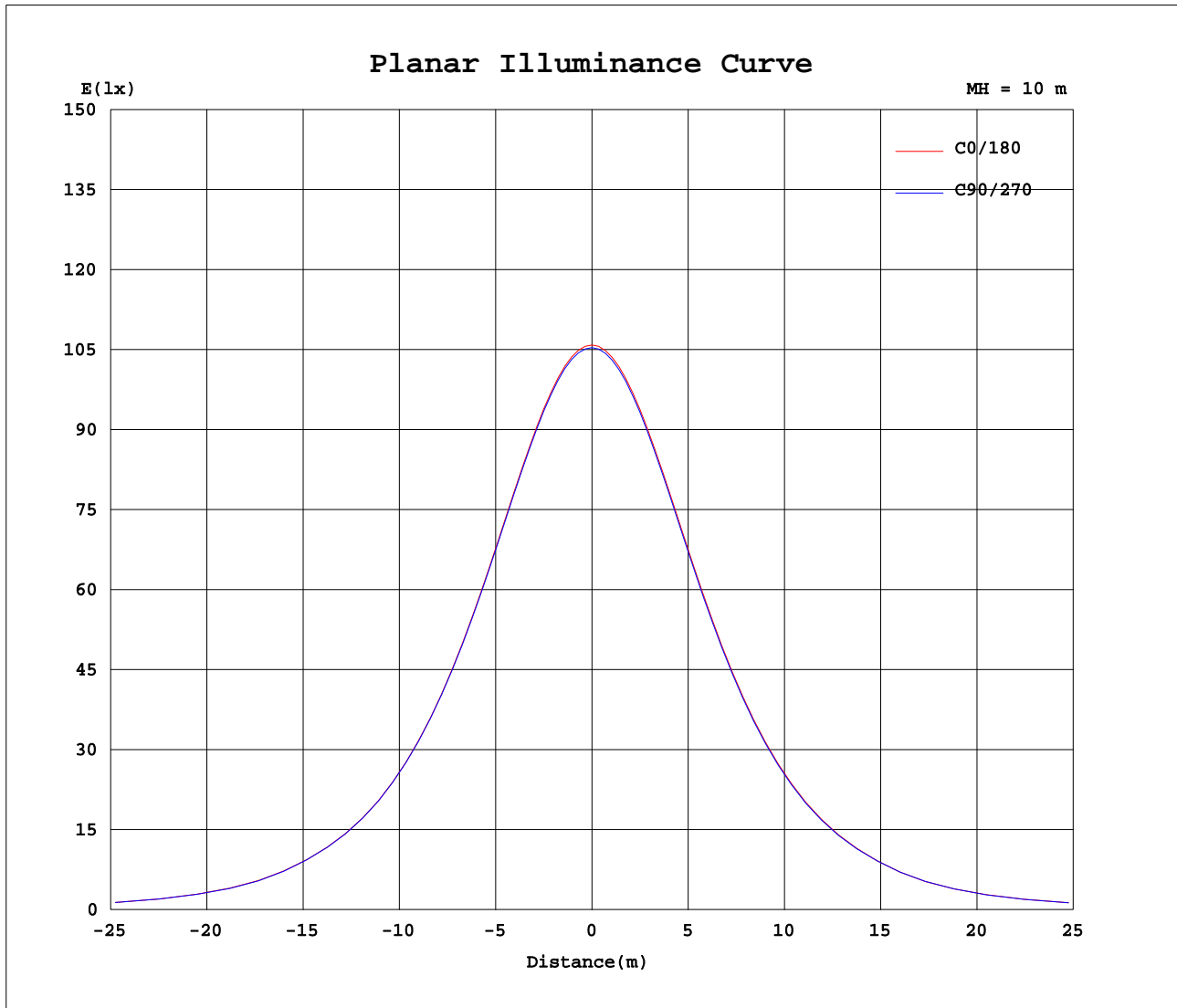
AvgL	cd/m2
L_0~180(65)av	147122
L_0~180(75)av	89422
L_0~180(85)av	14106
L_90~270(65)av	146311
L_90~270(75)av	89259
L_90~270(85)av	13971
L_45(65)av	146079
L_45(75)av	89168
L_45(85)av	13978

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:220.4V I:0.9460A P:203.3W PF:0.9750 Freq:50.00Hz Lamp Flux:29775.2x1 lm		
NAME: HBL200W	TYPE:LED	WEIGHT:4.8
SPEC.:5770120	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	1059	1057	1055	1054	1052	1051	1059	1057	1055	1054	1052	1051							
5	1057	1055	1053	1052	1050	1048	1056	1054	1052	1051	1050	1049							
10	1044	1043	1040	1039	1037	1034	1042	1040	1039	1037	1036	1036							
15	1029	1028	1025	1024	1021	1019	1027	1024	1023	1021	1021	1021							
20	996	996	993	992	988	986	994	990	990	988	989	989							
25	968	968	965	964	960	957	965	961	961	959	961	961							
30	915	916	912	911	907	903	911	907	908	905	908	909							
35	873	874	870	870	865	861	869	864	865	863	865	867							
40	799	801	797	797	791	786	794	789	791	788	792	794							
45	743	744	740	741	734	729	736	731	733	731	735	737							
50	647	649	644	645	638	633	639	634	636	634	639	643							
55	575	578	573	574	566	561	566	561	564	562	567	572							
60	438	441	434	433	428	418	423	419	423	424	431	439							
65	345	345	343	343	337	329	333	329	331	332	337	343							
70	218	219	217	217	212	206	208	205	207	207	212	217							
75	141	144	141	142	137	131	134	130	133	132	137	142							
80	46.4	50.5	45.8	49.2	42.8	42.9	44.3	38.9	44.0	41.1	47.0	47.2							
85	11.5	12.3	11.4	11.6	10.2	8.79	9.42	8.60	9.47	9.28	10.9	12.0							
90	0.14	0.14	0.14	0.14	0.14	0.15	0.20	0.20	0.20	0.20	0.20	0.19							
95	0.21	0.21	0.21	0.21	0.21	0.22	0.30	0.29	0.29	0.29	0.28	0.27							
100	0.38	0.37	0.37	0.38	0.38	0.40	0.50	0.51	0.50	0.50	0.49	0.47							
105	0.53	0.52	0.53	0.53	0.54	0.55	0.68	0.69	0.68	0.68	0.66	0.65							
110	0.81	0.80	0.80	0.80	0.82	0.83	0.99	1.00	0.99	0.98	0.97	0.95							
115	1.01	1.00	1.01	1.01	1.02	1.04	1.21	1.22	1.21	1.21	1.19	1.17							
120	1.34	1.33	1.34	1.33	1.35	1.36	1.56	1.56	1.55	1.55	1.53	1.51							
125	1.57	1.55	1.56	1.55	1.57	1.58	1.78	1.79	1.77	1.77	1.75	1.73							
130	1.90	1.88	1.89	1.88	1.89	1.91	2.10	2.11	2.09	2.09	2.07	2.05							
135	2.11	2.09	2.10	2.09	2.10	2.11	2.30	2.31	2.29	2.29	2.27	2.25							
140	2.41	2.39	2.40	2.39	2.40	2.41	2.59	2.58	2.57	2.57	2.55	2.53							
145	2.59	2.58	2.58	2.58	2.59	2.60	2.75	2.75	2.74	2.73	2.72	2.70							
150	2.85	2.84	2.84	2.84	2.84	2.85	2.99	2.98	2.97	2.96	2.95	2.94							
155	3.01	3.00	3.00	3.00	3.00	3.01	3.12	3.12	3.11	3.10	3.09	3.07							
160	3.23	3.22	3.22	3.22	3.22	3.22	3.32	3.31	3.30	3.29	3.28	3.27							
165	3.36	3.35	3.35	3.35	3.34	3.35	3.43	3.42	3.41	3.40	3.40	3.38							
170	3.53	3.53	3.52	3.52	3.51	3.51	3.57	3.56	3.56	3.55	3.54	3.53							
175	3.62	3.61	3.60	3.60	3.60	3.60	3.65	3.63	3.63	3.62	3.62	3.61							
180	3.69	3.69	3.68	3.68	3.67	3.67	3.70	3.68	3.68	3.67	3.67	3.66							

C Range: 0 - 360DEG  
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