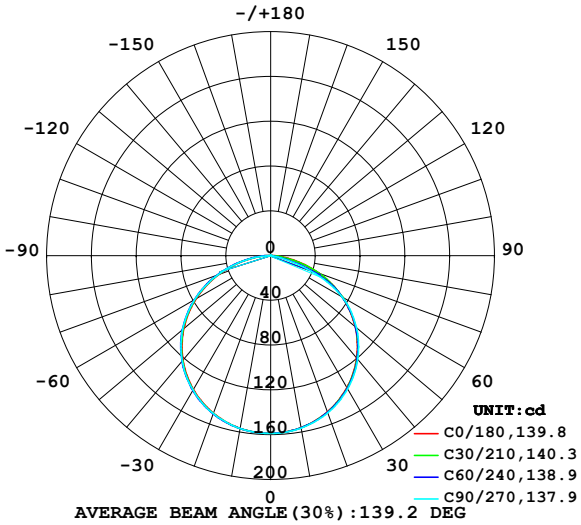
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

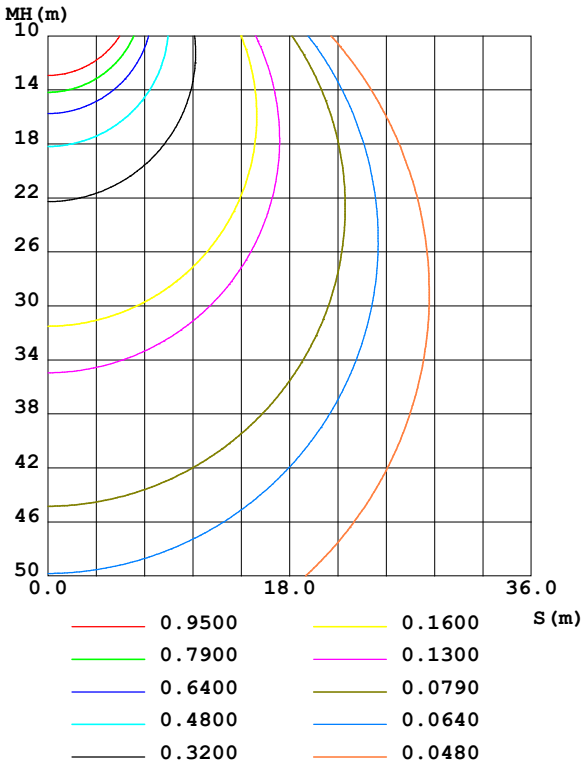
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 99.20 lm/W	
MODEL	HCP-3426250	Imax(cd)	158.8	S/MH(C0/180)	1.29
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	474.74	η UP,DN(C0-180)	0.1,48.5
NOMINAL FLUX(lm)	474.743	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,51.2
LAMPS INSIDE	1	η up(%)	0.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	99.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(30%):139.2 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [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	156.0	156.1	156.4	156.6	156.7	156.8	156.8	156.4	0- 10	15.05	15.05	3.17,3.17
20	148.5	148.8	149.4	149.7	149.8	150.2	150.1	149.4	10- 20	43.37	58.42	12.3,12.3
30	136.2	136.8	137.6	138.1	138.1	138.8	138.9	137.8	20- 30	66.50	124.9	26.3,26.3
40	119.5	120.1	121.1	121.8	121.8	122.9	123.0	121.6	30- 40	81.48	206.4	43.5,43.5
50	98.51	99.12	99.97	101.1	101.3	102.6	102.6	101.1	40- 50	86.15	292.5	61.6,61.6
60	73.71	74.05	73.86	76.24	76.58	78.10	78.21	76.66	50- 60	79.43	372.0	78.4,78.4
70	45.92	42.42	34.50	45.41	48.90	50.50	50.35	49.13	60- 70	60.89	432.9	91.2,91.2
80	18.27	9.398	1.149	14.03	20.78	22.42	21.84	21.24	70- 80	32.30	465.2	98,98
90	1.602	0.7495	0.0233	1.063	1.921	3.322	0.0199	3.145	80- 90	8.210	473.4	99.7,99.7
100	0.0847	0.0495	0.0525	0.0452	0.0553	0.0676	0.0204	0.0820	90-100	0.6778	474.0	99.9,99.9
110	0.0612	0.0714	0.0875	0.0714	0.0729	0.0641	0.0553	0.0699	100-110	0.0602	474.1	99.9,99.9
120	0.0902	0.1107	0.1253	0.1107	0.1136	0.0947	0.0903	0.1077	110-120	0.0837	474.2	99.9,99.9
130	0.1223	0.1384	0.1546	0.1427	0.1515	0.1369	0.1195	0.1399	120-130	0.1108	474.3	99.9,99.9
140	0.1631	0.1734	0.1924	0.1776	0.1923	0.1748	0.1603	0.1748	130-140	0.1233	474.4	99.9,99.9
150	0.2068	0.2127	0.2215	0.2126	0.2243	0.2171	0.2098	0.2141	140-150	0.1216	474.5	100,100
160	0.2243	0.2346	0.2478	0.2345	0.2476	0.2345	0.2215	0.2330	150-160	0.1029	474.6	100,100
170	0.2534	0.2520	0.2565	0.2549	0.2534	0.2549	0.2448	0.2578	160-170	0.0692	474.7	100,100
180	0.2534	0.2550	0.2565	0.2564	0.2534	0.2550	0.2565	0.2564	170-180	0.0243	474.7	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

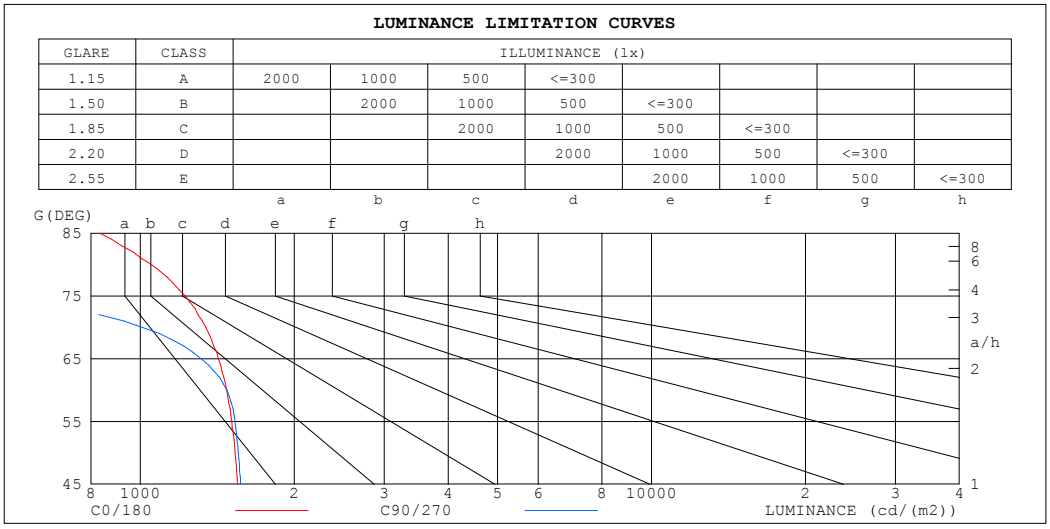
0 - 60 DEG Zonal Flux:371.98 %lum: 78.4%
0 - 60 DEG Zonal Flux:371.98 %lum: 78.4%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 13.2%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 18.9%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	833	15
80	1052	66
75	1225	535
70	1343	1008
65	1421	1315
60	1474	1477
55	1511	1532
50	1533	1555
45	1548	1569

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

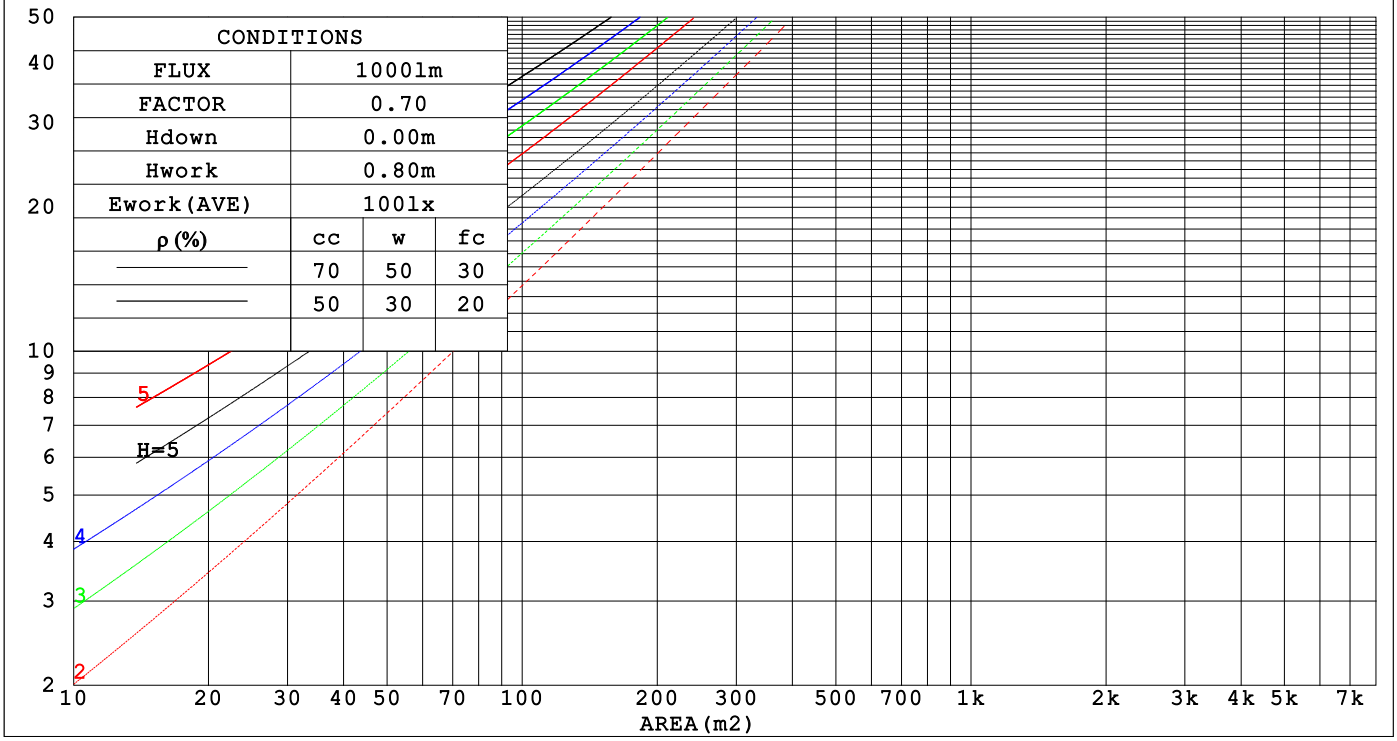
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

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			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	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.87	.85	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.36	.30	.25	.23

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

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 Coeffcients(WEC)												
0.0																
1.0	.310	.176	.056	.303	.173	.055	.289	.166	.053	.277	.160	.051	.265	.154	.050	
2.0	.293	.160	.049	.286	.158	.049	.274	.153	.047	.264	.148	.046	.253	.143	.045	
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.246	.135	.041	.236	.131	.041	
4.0	.251	.130	.038	.246	.129	.038	.236	.125	.037	.228	.122	.037	.220	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.211	.112	.033	.204	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021	

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	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.183	.158	.137	.156	.136	.118	.107	.094	.081	.061	.054	.047	.020	.017	.015	
2.0	.175	.134	.100	.150	.115	.087	.102	.080	.060	.059	.046	.035	.019	.015	.012	
3.0	.167	.117	.076	.143	.101	.066	.098	.070	.046	.057	.041	.027	.018	.013	.009	
4.0	.159	.103	.060	.137	.089	.052	.094	.062	.037	.054	.036	.022	.018	.012	.007	
5.0	.152	.093	.049	.131	.080	.043	.090	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.145	.085	.041	.125	.073	.036	.086	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.138	.078	.035	.119	.067	.031	.082	.047	.022	.048	.028	.013	.015	.009	.004	
8.0	.132	.072	.031	.113	.062	.027	.078	.044	.019	.046	.026	.011	.015	.008	.004	
9.0	.126	.067	.027	.108	.058	.024	.075	.041	.017	.044	.024	.010	.014	.008	.003	
10.0	.120	.063	.025	.103	.054	.021	.072	.038	.015	.042	.023	.009	.014	.007	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	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	16.9	18.5	17.2	18.7	18.9	16.9	18.4	17.2	18.6	18.9
3H	18.5	19.9	18.8	20.1	20.4	18.0	19.4	18.3	19.7	19.9
4H	19.0	20.4	19.4	20.6	20.9	18.2	19.5	18.5	19.8	20.0
6H	19.4	20.7	19.8	21.0	21.2	18.1	19.4	18.4	19.6	19.9
8H	19.5	20.7	19.9	21.0	21.3	18.0	19.3	18.4	19.6	19.9
12H	19.6	20.7	19.9	21.0	21.4	18.0	19.2	18.3	19.5	19.8
4H 2H	17.5	18.9	17.8	19.1	19.4	17.5	18.9	17.8	19.1	19.4
3H	19.2	20.4	19.6	20.7	21.0	18.8	19.9	19.1	20.2	20.5
4H	19.9	21.0	20.3	21.3	21.7	18.9	20.0	19.3	20.3	20.7
6H	20.4	21.4	20.8	21.7	22.1	18.9	19.8	19.3	20.2	20.6
8H	20.5	21.4	21.0	21.8	22.2	18.8	19.7	19.3	20.1	20.5
12H	20.6	21.4	21.1	21.8	22.2	18.8	19.6	19.2	20.0	20.4
8H 4H	20.0	20.9	20.5	21.3	21.7	19.1	20.0	19.5	20.4	20.8
6H	20.6	21.4	21.1	21.8	22.2	19.1	19.8	19.5	20.2	20.7
8H	20.8	21.5	21.3	21.9	22.4	19.0	19.7	19.5	20.1	20.6
12H	21.0	21.5	21.5	22.0	22.5	19.0	19.6	19.5	20.0	20.5
12H 4H	20.0	20.8	20.4	21.2	21.6	19.1	19.9	19.5	20.3	20.7
6H	20.6	21.2	21.1	21.7	22.1	19.1	19.8	19.6	20.2	20.6
8H	20.8	21.4	21.3	21.8	22.3	19.1	19.6	19.6	20.1	20.6

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.2 / - 0.2	+ 0.2 / - 0.3
1.5H	+ 0.2 / - 0.4	+ 0.3 / - 0.5
2.0H	+ 0.2 / - 0.3	+ 0.3 / - 0.5

CIE Pub.117, 474.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.6)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

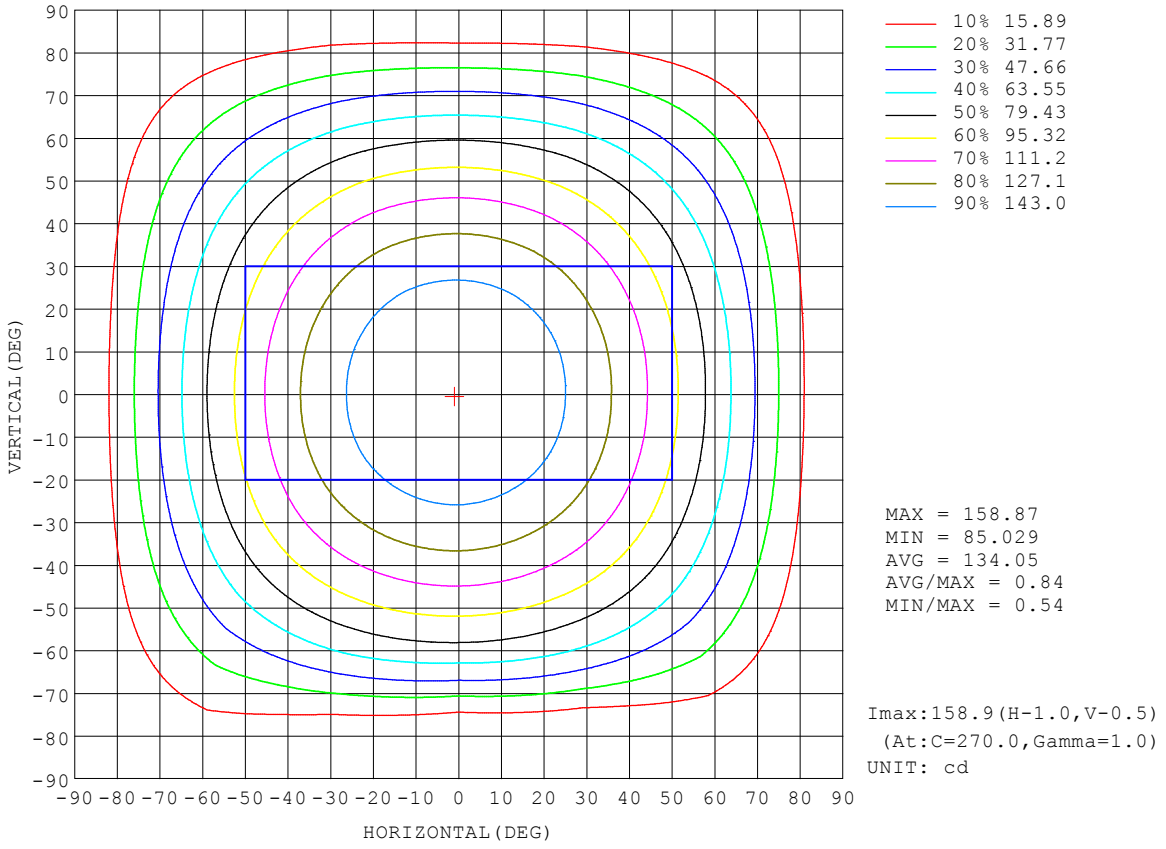
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	74
3.00	102	95	90	100	94	88	96	91	86	78
4.00	106	100	96	104	99	94	99	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

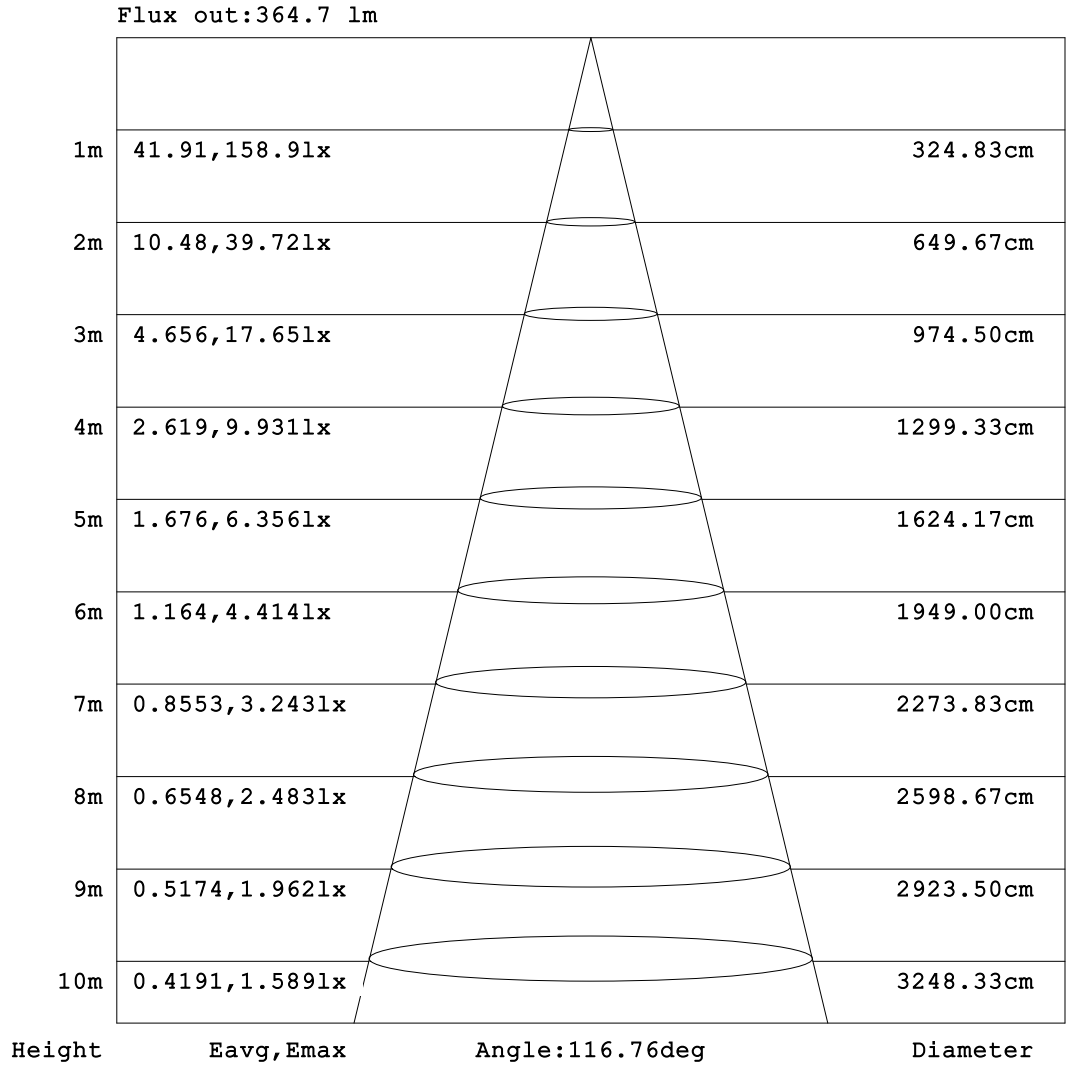


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

AAI Figure

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



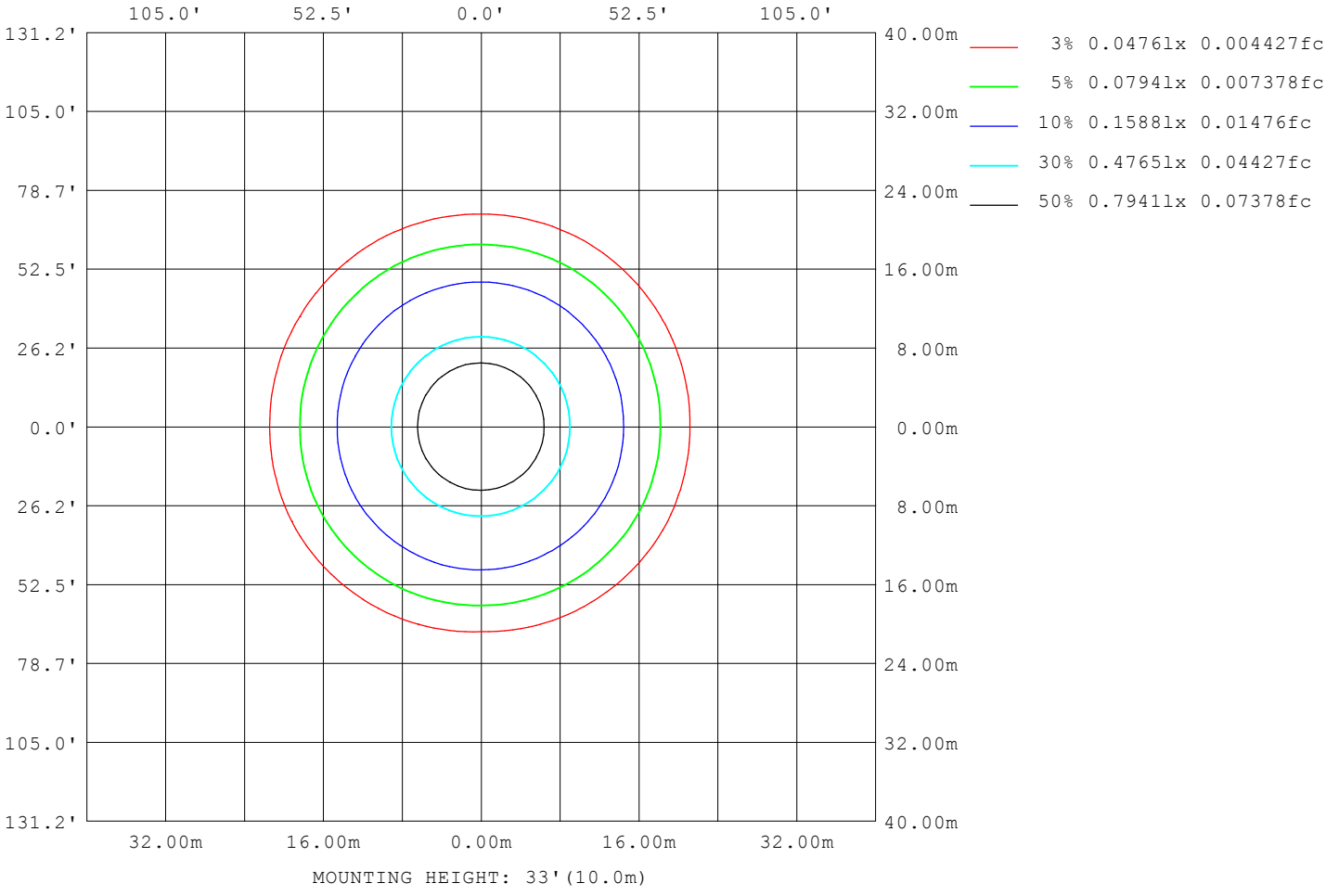
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

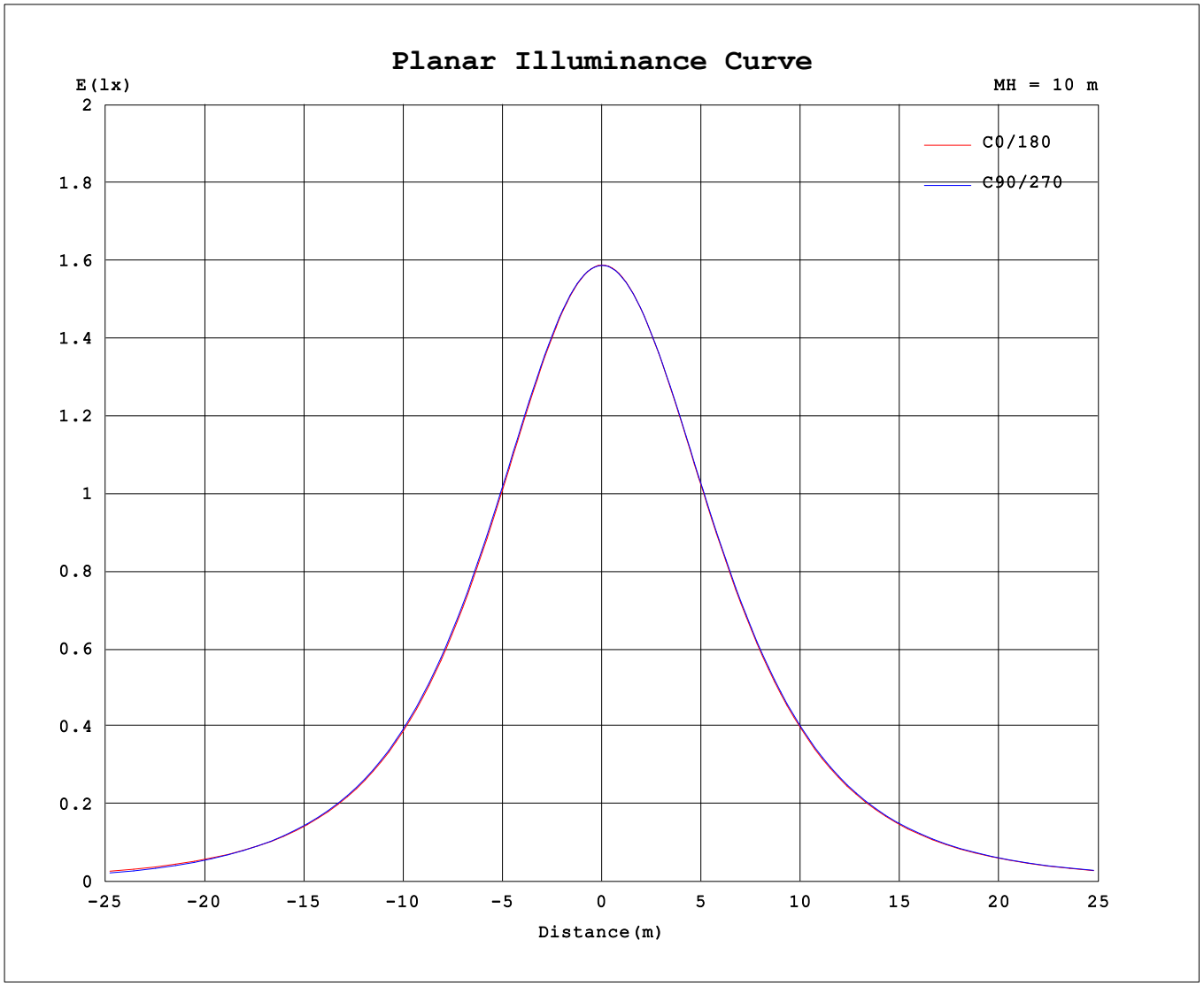
AvgL	cd/m2
L_0~180(65)av	1456
L_0~180(75)av	1278
L_0~180(85)av	935
L_90~270(65)av	1422
L_90~270(75)av	962
L_90~270(85)av	463
L_45(65)av	1476
L_45(75)av	1209
L_45(85)av	852

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JING
Test Date:2022-05-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: HCP-3426250-1M W	TYPE: 2216 W	WEIGHT:
SPEC.:	DIM.: 1*0.012	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	159	159	159	159	159	159	159	159	159	159	159	159							
5	158	158	158	158	158	158	158	158	158	158	158	158							
10	156	156	156	156	157	157	157	157	157	157	157	156							
15	153	153	153	153	154	154	154	154	154	154	154	153							
20	148	149	149	149	150	150	150	150	150	150	150	149							
25	143	143	143	144	144	145	145	145	145	145	145	144							
30	136	137	137	138	138	138	138	139	139	139	138	137							
35	128	129	129	130	130	131	130	131	132	131	131	130							
40	119	120	120	121	122	122	122	122	123	123	122	121							
45	109	110	110	111	112	112	112	113	114	113	113	111							
50	98.5	99.1	99.2	100.0	101	101	101	102	103	103	102	100							
55	86.6	87.2	87.1	87.9	88.7	89.8	89.4	90.3	91.3	90.9	90.4	88.4							
60	73.7	74.2	73.9	73.9	75.5	76.9	76.6	77.6	78.6	78.2	77.7	75.6							
65	60.0	60.4	58.1	55.6	60.1	63.2	63.1	64.1	65.2	64.6	64.3	62.1							
70	45.9	46.1	38.8	34.5	41.8	49.0	48.9	49.9	51.1	50.3	50.2	48.0							
75	31.7	30.9	18.0	13.8	22.6	34.5	34.5	35.7	36.7	36.0	35.9	33.9							
80	18.3	15.8	3.01	1.15	7.65	20.4	20.8	21.9	22.9	21.8	22.0	20.4							
85	7.26	5.82	0.47	0.13	1.93	8.63	9.03	10.3	11.3	7.94	10.6	9.21							
90	1.60	1.21	0.29	0.02	0.47	1.66	1.92	3.06	3.58	0.02	3.37	2.92							
95	0.54	0.33	0.06	0.03	0.06	0.45	0.59	1.36	0.65	0.01	0.54	1.23							
100	0.08	0.06	0.04	0.05	0.04	0.05	0.06	0.10	0.04	0.02	0.04	0.12							
105	0.06	0.06	0.04	0.07	0.04	0.06	0.06	0.05	0.06	0.03	0.06	0.06							
110	0.06	0.08	0.06	0.09	0.06	0.08	0.07	0.05	0.08	0.06	0.08	0.06							
115	0.07	0.10	0.07	0.10	0.07	0.10	0.09	0.06	0.10	0.07	0.10	0.07							
120	0.09	0.12	0.10	0.13	0.10	0.12	0.11	0.08	0.11	0.09	0.12	0.10							
125	0.12	0.14	0.11	0.14	0.12	0.13	0.13	0.11	0.13	0.12	0.13	0.11							
130	0.12	0.15	0.13	0.15	0.13	0.15	0.15	0.12	0.15	0.12	0.15	0.13							
135	0.15	0.17	0.15	0.18	0.15	0.17	0.17	0.15	0.17	0.15	0.17	0.15							
140	0.16	0.19	0.16	0.19	0.16	0.19	0.19	0.16	0.19	0.16	0.19	0.16							
145	0.18	0.21	0.17	0.21	0.18	0.20	0.21	0.17	0.20	0.18	0.20	0.18							
150	0.21	0.22	0.21	0.22	0.20	0.22	0.22	0.21	0.22	0.21	0.22	0.21							
155	0.21	0.23	0.21	0.24	0.21	0.23	0.24	0.21	0.24	0.21	0.23	0.21							
160	0.22	0.25	0.22	0.25	0.22	0.25	0.25	0.22	0.25	0.22	0.24	0.22							
165	0.24	0.26	0.23	0.26	0.24	0.26	0.25	0.23	0.26	0.23	0.26	0.23							
170	0.25	0.26	0.25	0.26	0.25	0.26	0.25	0.25	0.26	0.24	0.26	0.26							
175	0.25	0.26	0.25	0.26	0.26	0.26	0.25	0.25	0.26	0.26	0.26	0.25							
180	0.25	0.25	0.26	0.26	0.26	0.26	0.25	0.25	0.26	0.26	0.26	0.25							

C Range: 0 - 360DEG
C Interval: 30.0DEG
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γ Range: 0 - 180DEG
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