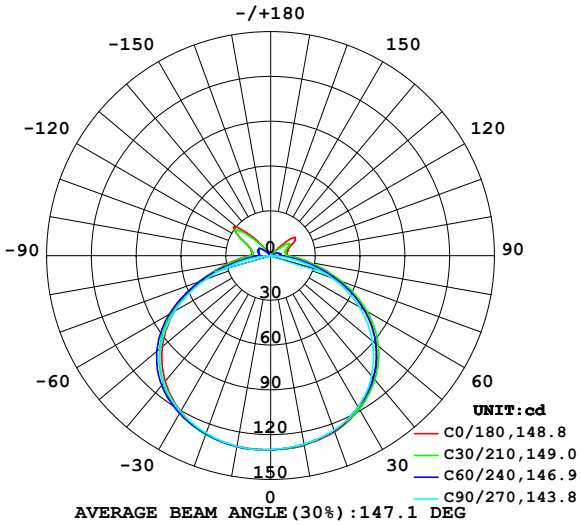
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: HCP-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

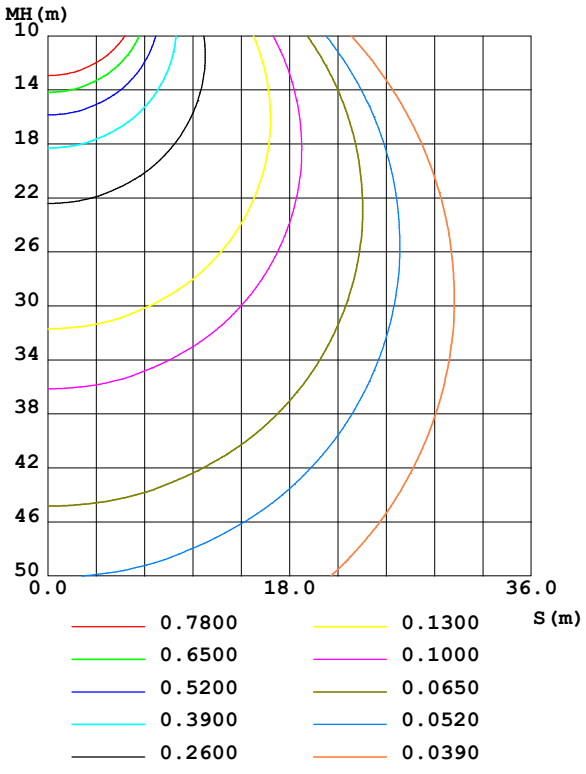
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 39.04 lm/W	
MODEL	HCP-3466350	Imax(cd)	130.3	S/MH(C0/180)	1.38
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.38
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	491.60	η UP,DN(C0-180)	4.0,45.0
NOMINAL FLUX(lm)	491.599	CIE CLASS	DIRECT	η UP,DN(C180-360)	4.6,46.4
LAMPS INSIDE	1	η up(%)	8.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	91.4	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(30%):147.1 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-16

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	129.1	128.5	128.2	128.6	129.5	130.0	129.8	129.6	0- 10	12.37	12.37	2.52,2.52
20	125.5	124.7	124.4	125.6	126.9	127.3	126.5	126.4	10- 20	36.16	48.53	9.87,9.87
30	118.6	118.0	117.1	119.8	120.6	122.1	120.7	120.5	20- 30	56.92	105.5	21.5,21.5
40	107.6	107.7	105.1	109.9	109.9	112.7	111.2	111.1	30- 40	72.20	177.7	36.1,36.1
50	92.23	93.13	88.86	95.21	94.72	98.37	96.23	97.50	40- 50	79.46	257.1	52.3,52.3
60	72.45	73.41	68.56	75.21	74.37	77.56	74.19	77.47	50- 60	76.41	333.5	67.8,67.8
70	49.15	49.02	43.45	50.21	50.40	50.79	45.81	51.65	60- 70	61.76	395.3	80.4,80.4
80	26.08	23.74	16.55	24.69	28.05	24.36	15.98	24.36	70- 80	37.98	433.3	88.1,88.1
90	12.14	9.140	0.6843	10.41	13.97	10.85	0.2160	9.399	80- 90	16.05	449.3	91.4,91.4
100	11.24	8.193	0.0672	9.795	12.87	10.28	0.0408	8.463	90-100	8.955	458.3	93.2,93.2
110	12.59	7.966	0.0963	10.66	14.52	11.78	0.0642	6.837	100-110	8.834	467.1	95,95
120	17.96	7.879	0.1284	13.00	22.98	16.43	0.1050	5.898	110-120	9.316	476.4	96.9,96.9
130	17.84	4.046	0.1518	11.45	29.97	14.88	0.1167	3.706	120-130	10.05	486.5	99,99
140	1.233	0.2006	0.1809	3.759	8.542	3.106	0.1575	0.2638	130-140	4.257	490.7	99.8,99.8
150	0.1913	0.1834	0.2013	0.8010	1.405	0.7155	0.1692	0.1971	140-150	0.6287	491.4	100,100
160	0.2029	0.2067	0.2188	0.2846	0.2232	0.2287	0.2071	0.2073	150-160	0.1576	491.5	100,100
170	0.2058	0.2111	0.2188	0.2263	0.2261	0.2199	0.2101	0.2073	160-170	0.0622	491.6	100,100
180	0.2087	0.2111	0.2188	0.2263	0.2261	0.2184	0.2101	0.2088	170-180	0.0206	491.6	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

0 - 60 DEG Zonal Flux:333.53 %lum: 67.8%
0 - 60 DEG Zonal Flux:333.53 %lum: 67.8%
All measured values may vary less than 35 %
from the average measured value in the 0 to 130 deg. zone: 14.1%
All measured values in the 0 to 130 deg. zone
may vary less than 50% from the average value of itself: 20.9%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-16

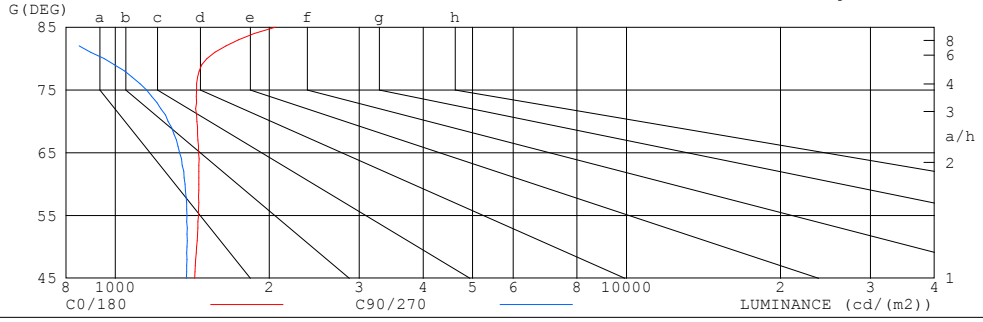
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.454
Humidity:65.0%
Test Distance:6.070m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: HCP-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2054	679
80	1509	952
75	1443	1151
70	1445	1269
65	1454	1336
60	1456	1369
55	1453	1381
50	1442	1380
45	1428	1377

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-16

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:

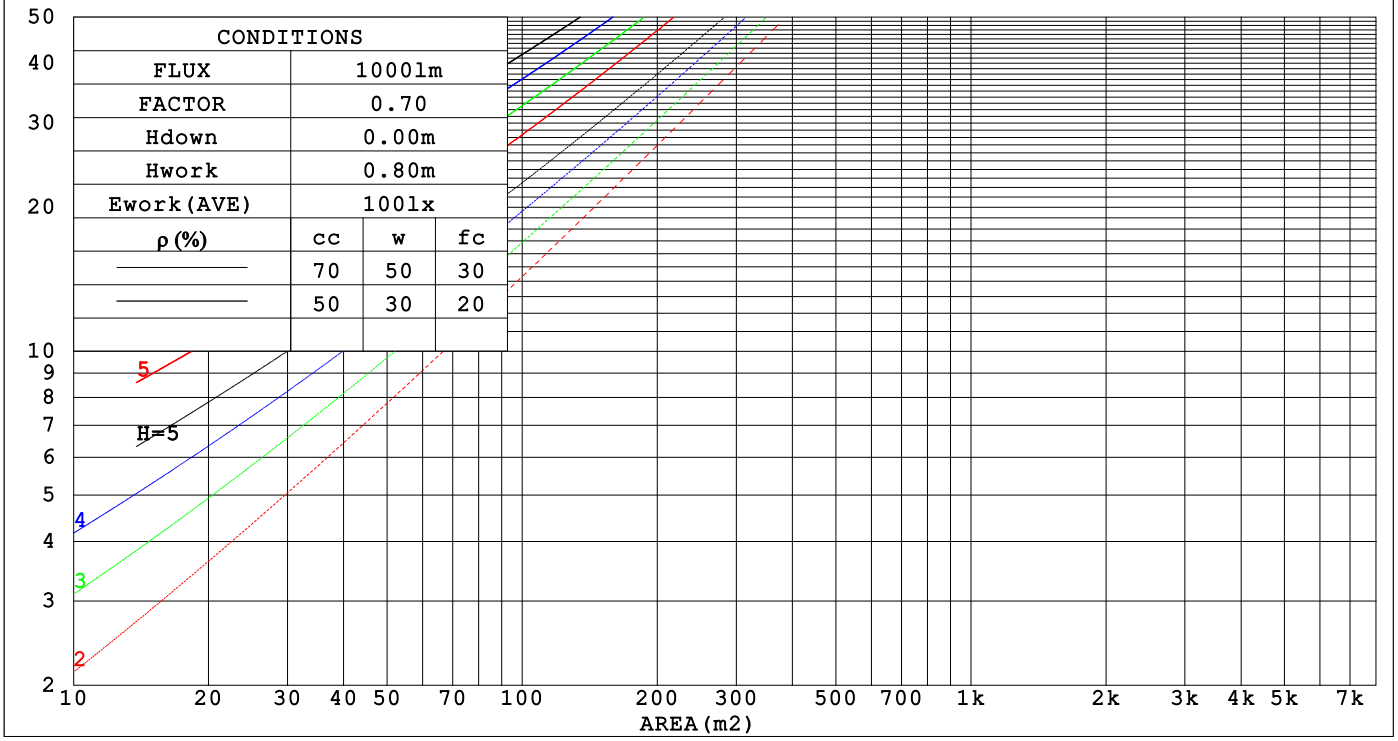
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: HCP-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	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	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.00	.00	.00	.94	.94	.94	.91
1.0	1.01	.96	.92	.97	.93	.89	.92	.88	.85	.86	.83	.81	.81	.79	.77	.74
2.0	.87	.80	.73	.84	.78	.72	.79	.74	.69	.75	.70	.66	.70	.67	.63	.61
3.0	.76	.67	.60	.73	.65	.59	.69	.62	.57	.65	.60	.55	.62	.57	.53	.50
4.0	.67	.57	.50	.65	.56	.50	.61	.54	.48	.58	.51	.46	.54	.49	.45	.42
5.0	.59	.50	.43	.57	.49	.42	.54	.47	.41	.51	.45	.40	.49	.43	.39	.36
6.0	.53	.44	.37	.52	.43	.37	.49	.41	.36	.46	.40	.35	.44	.38	.34	.31
7.0	.48	.39	.33	.47	.38	.32	.44	.37	.31	.42	.35	.30	.40	.34	.30	.27
8.0	.43	.35	.29	.42	.34	.28	.40	.33	.28	.38	.32	.27	.37	.31	.26	.24
9.0	.40	.31	.26	.39	.31	.25	.37	.30	.25	.35	.29	.24	.34	.28	.24	.22
10.0	.36	.28	.23	.36	.28	.23	.34	.27	.22	.33	.26	.22	.31	.25	.21	.20

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-16

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-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	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	.334	.190	.060	.324	.185	.059	.306	.175	.056	.289	.167	.054	.274	.159	.051	
2.0	.307	.168	.052	.298	.164	.051	.282	.157	.049	.267	.150	.047	.253	.143	.045	
3.0	.281	.149	.045	.273	.146	.044	.258	.140	.043	.245	.134	.041	.232	.128	.040	
4.0	.257	.134	.039	.250	.131	.039	.237	.126	.038	.225	.121	.036	.213	.116	.035	
5.0	.236	.120	.035	.230	.118	.034	.218	.114	.033	.207	.109	.032	.197	.105	.032	
6.0	.218	.109	.031	.213	.107	.031	.202	.103	.030	.192	.100	.029	.182	.096	.028	
7.0	.202	.100	.028	.197	.098	.028	.187	.095	.027	.178	.091	.027	.170	.088	.026	
8.0	.189	.092	.026	.184	.091	.026	.175	.087	.025	.167	.084	.024	.159	.081	.024	
9.0	.176	.085	.024	.172	.084	.024	.164	.081	.023	.156	.078	.022	.149	.076	.022	
10.0	.165	.079	.022	.161	.078	.022	.154	.075	.021	.147	.073	.021	.140	.071	.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	.256	.256	.256	.219	.219	.219	.149	.149	.149	.086	.086	.086	.027	.027	.027	
1.0	.248	.222	.199	.212	.191	.171	.145	.131	.118	.084	.076	.069	.027	.024	.022	
2.0	.241	.198	.163	.206	.171	.141	.141	.118	.098	.081	.069	.058	.026	.022	.019	
3.0	.233	.181	.140	.200	.156	.121	.137	.109	.085	.079	.063	.050	.025	.021	.016	
4.0	.226	.168	.124	.194	.145	.108	.133	.101	.076	.077	.059	.045	.025	.019	.015	
5.0	.219	.158	.114	.188	.137	.099	.129	.096	.070	.075	.056	.041	.024	.018	.014	
6.0	.211	.150	.106	.182	.130	.092	.125	.091	.065	.073	.054	.039	.023	.017	.013	
7.0	.205	.143	.100	.176	.124	.088	.122	.087	.062	.071	.051	.037	.023	.017	.012	
8.0	.198	.138	.096	.170	.119	.084	.118	.084	.060	.069	.049	.035	.022	.016	.012	
9.0	.192	.133	.093	.165	.115	.081	.115	.081	.058	.067	.048	.034	.022	.016	.011	
10.0	.186	.129	.090	.160	.112	.079	.111	.079	.056	.065	.046	.033	.021	.015	.011	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-16

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-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	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	16.3	17.8	16.7	18.2	18.5	16.1	17.5	16.5	17.9	18.3
3H	18.1	19.4	18.5	19.8	20.2	17.7	19.0	18.1	19.4	19.8
4H	18.9	20.1	19.3	20.5	21.0	18.3	19.5	18.7	19.9	20.4
6H	19.5	20.7	20.0	21.1	21.6	18.7	19.8	19.1	20.3	20.7
8H	19.8	21.0	20.3	21.4	21.9	18.7	19.9	19.2	20.3	20.8
12H	20.1	21.3	20.6	21.7	22.2	18.8	19.9	19.3	20.3	20.8
4H 2H	17.0	18.3	17.4	18.7	19.1	16.8	18.0	17.2	18.5	18.9
3H	19.0	20.1	19.4	20.5	21.0	18.6	19.7	19.0	20.1	20.6
4H	19.9	20.9	20.4	21.3	21.9	19.3	20.3	19.8	20.8	21.3
6H	20.7	21.6	21.2	22.1	22.6	19.8	20.7	20.3	21.2	21.8
8H	21.0	21.9	21.6	22.4	23.0	19.9	20.8	20.5	21.3	21.9
12H	21.4	22.2	22.0	22.7	23.3	20.0	20.8	20.6	21.3	21.9
8H 4H	20.1	21.0	20.7	21.5	22.1	19.7	20.5	20.2	21.0	21.6
6H	21.1	21.8	21.7	22.4	23.0	20.3	21.0	20.9	21.6	22.2
8H	21.7	22.3	22.3	22.9	23.5	20.6	21.2	21.2	21.8	22.4
12H	22.2	22.8	22.8	23.4	24.0	20.8	21.3	21.4	21.9	22.5
12H 4H	20.1	20.9	20.7	21.5	22.0	19.7	20.5	20.3	21.0	21.6
6H	21.2	21.8	21.8	22.4	23.0	20.5	21.1	21.0	21.7	22.3
8H	21.8	22.3	22.4	22.9	23.6	20.8	21.3	21.4	21.9	22.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 491.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.5)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-16

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-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

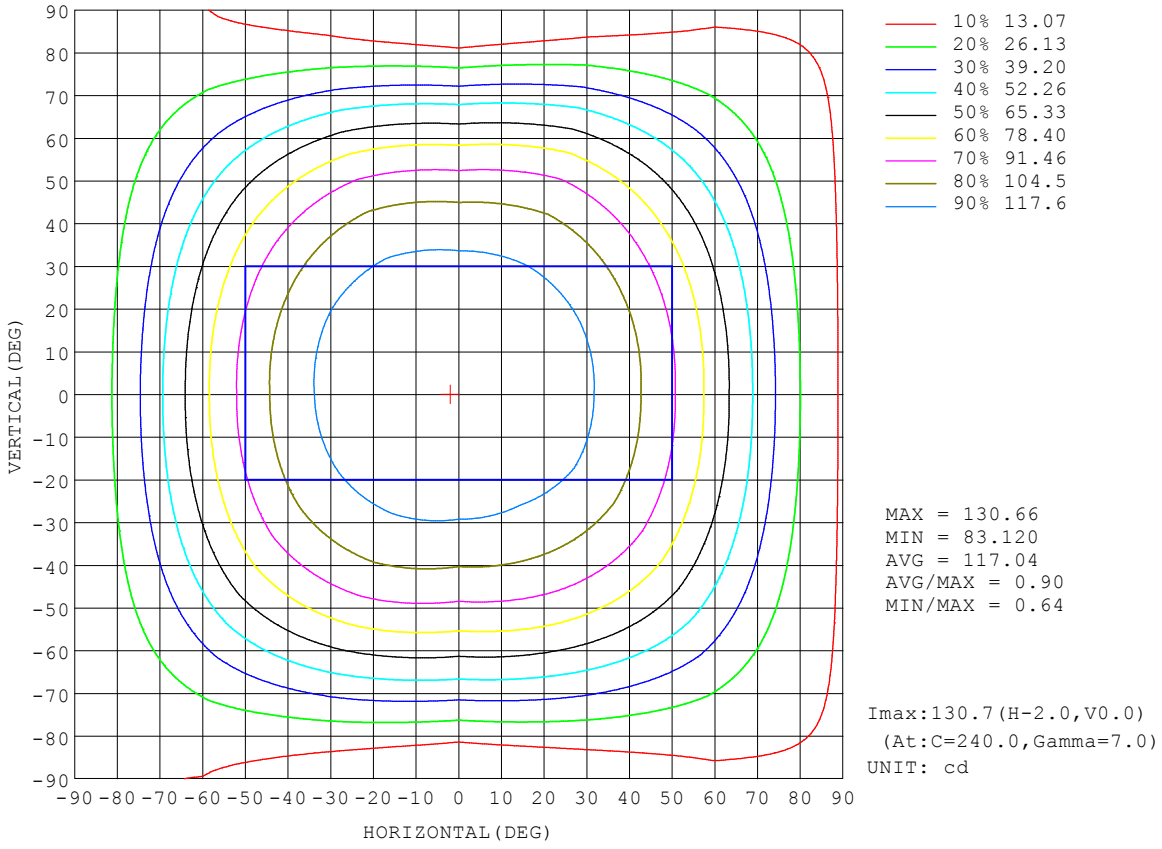
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	52	40	33	51	40	33	50	39	32	26
0.80	62	50	42	61	49	42	58	48	41	34
1.00	70	59	51	69	58	50	66	59	49	41
1.25	78	66	58	76	65	58	72	63	57	48
1.50	83	72	64	81	71	63	77	68	62	53
2.00	90	81	73	88	79	72	83	76	70	60
2.50	94	86	79	92	84	77	87	80	75	64
3.00	98	90	84	95	88	82	90	84	79	68
4.00	102	96	90	99	93	88	94	89	85	73
5.00	105	99	95	102	97	92	96	92	88	76
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:zhuo
Test Date:2022-05-16

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-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

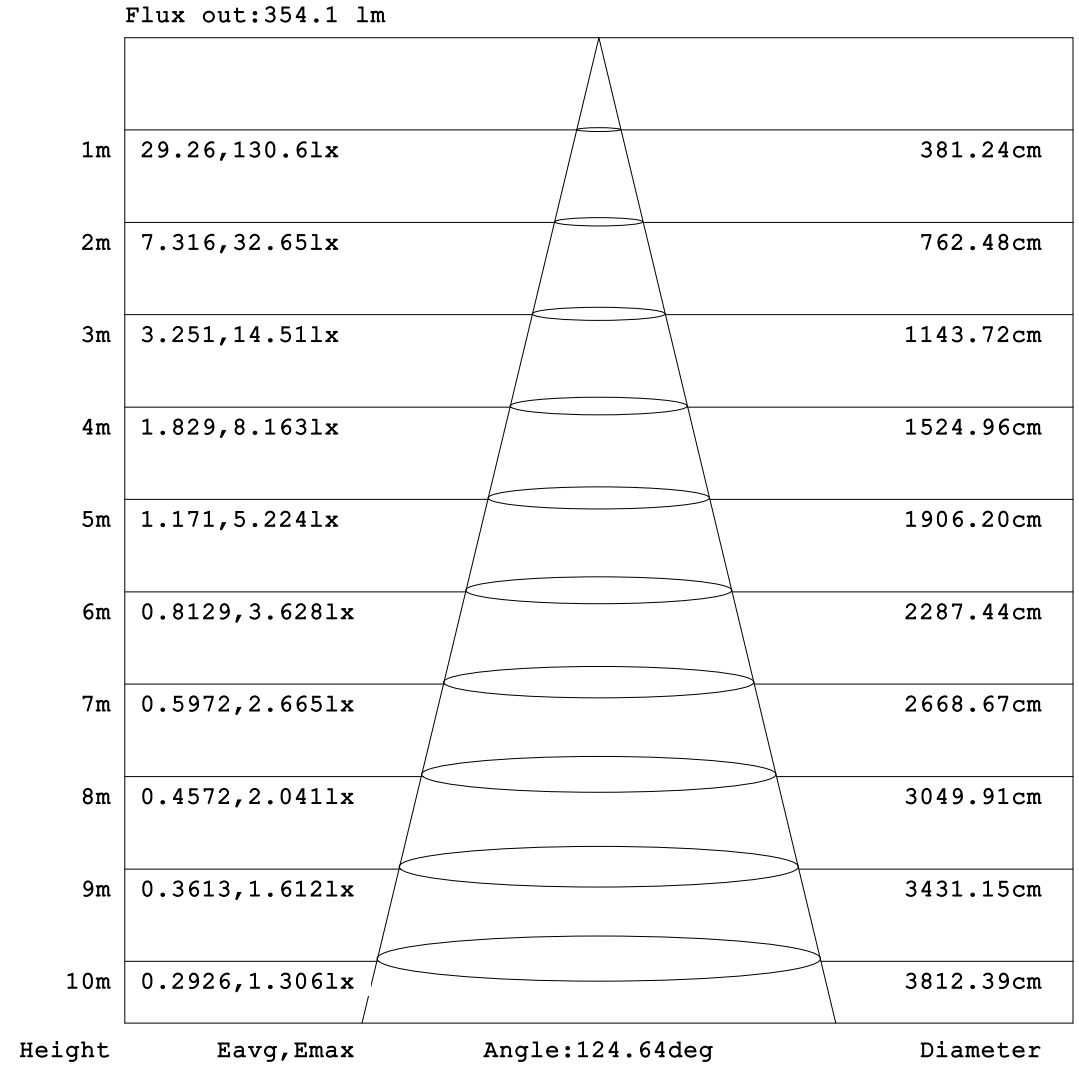


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-16

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-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



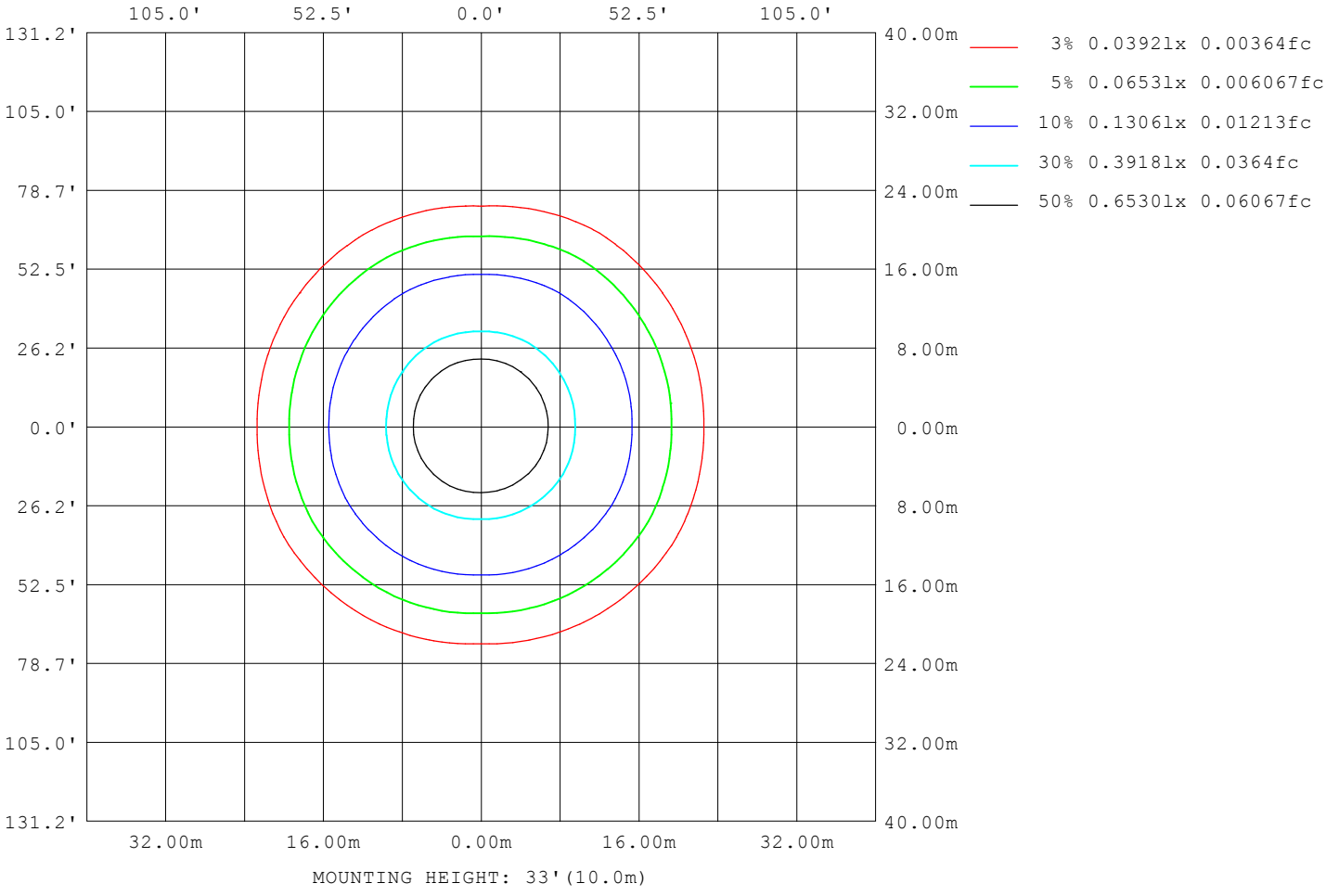
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-16

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-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-16

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-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	SERIAL No.:
MFR.: HAVIT COMMERCIAL	SUR.:	Shielding Angle:

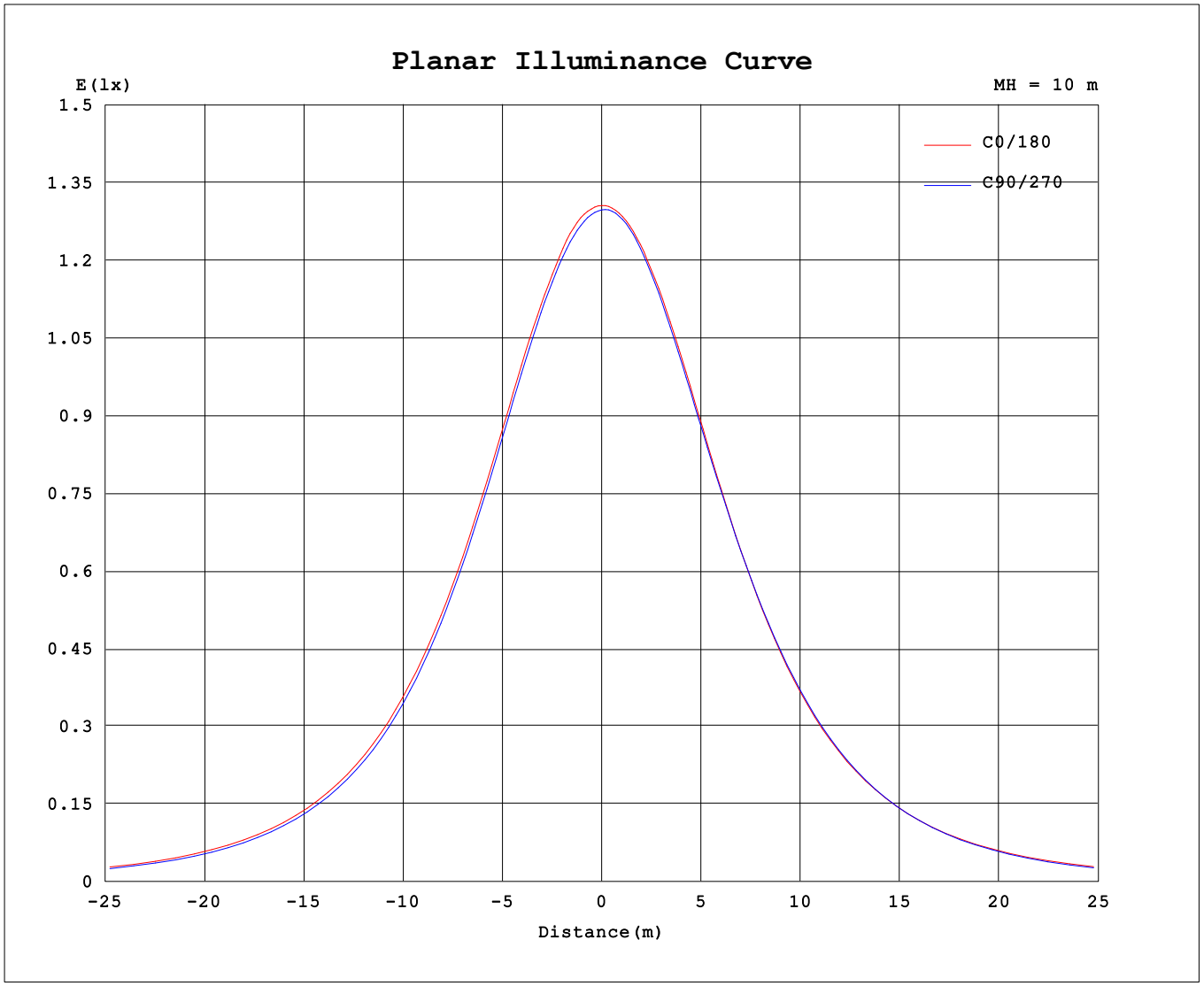
AvgL	cd/m2
L_0~180(65)av	1466
L_0~180(75)av	1453
L_0~180(85)av	2161
L_90~270(65)av	1385
L_90~270(75)av	1165
L_90~270(85)av	616
L_45(65)av	1518
L_45(75)av	1436
L_45(85)av	1765

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3DEG
Operators:zhuo
Test Date:2022-05-16

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:zhuo
Test Date:2022-05-16

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-3466350 RGB	TYPE: 2835 RGB	WEIGHT:
SPEC.:	DIM.: 1* 0.01	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	130	130	130	130	130	130	130	130	130	130	130	130
5	130	130	129	129	129	130	130	130	130	130	130	130
10	129	129	128	128	128	129	130	130	130	130	130	129
15	127	127	127	127	127	128	129	129	129	129	128	128
20	126	125	125	124	125	126	127	127	127	127	127	126
25	123	122	121	121	123	124	124	125	125	124	124	124
30	119	119	117	117	119	120	121	122	122	121	121	120
35	114	114	113	112	115	116	116	118	118	116	117	116
40	108	109	107	105	109	111	110	112	114	111	112	110
45	100	102	99.9	97.5	102	104	103	105	107	105	106	104
50	92.2	94.2	92.0	88.9	94.1	96.4	94.7	97.1	99.6	96.2	99.4	95.6
55	82.9	85.2	82.8	79.3	84.6	87.3	85.2	87.8	89.9	86.1	90.4	86.4
60	72.4	74.7	72.1	68.6	73.7	76.7	74.4	76.8	78.3	74.2	79.2	75.7
65	61.1	63.1	60.2	56.6	61.6	65.0	62.7	64.5	65.0	60.5	66.3	64.0
70	49.2	50.6	47.4	43.5	48.5	51.9	50.4	51.1	50.5	45.8	52.1	51.2
75	37.1	38.0	34.2	29.8	35.0	38.9	38.1	37.7	35.4	30.5	37.1	38.1
80	26.1	26.0	21.5	16.5	22.0	27.4	28.0	26.9	21.8	16.0	22.9	25.8
85	17.8	17.0	11.6	5.93	12.3	18.4	19.9	18.7	12.8	4.80	12.2	17.1
90	12.1	11.3	6.95	0.68	7.90	12.9	14.0	13.3	8.44	0.22	7.31	11.5
95	11.0	10.2	6.52	0.06	7.43	11.8	12.7	12.2	7.94	0.04	6.78	10.6
100	11.2	9.94	6.44	0.07	7.58	12.0	12.9	12.4	8.17	0.04	6.66	10.3
105	11.8	10.2	6.01	0.08	7.78	12.6	13.5	13.1	8.63	0.06	5.93	10.4
110	12.6	10.8	5.12	0.10	7.60	13.7	14.5	14.6	8.99	0.06	4.43	9.24
115	14.1	12.3	3.78	0.11	6.82	16.1	17.2	17.6	9.28	0.08	2.87	11.5
120	18.0	14.5	1.23	0.13	5.25	20.7	23.0	23.5	9.33	0.10	1.19	10.6
125	20.4	14.2	0.19	0.14	4.47	24.0	29.2	29.2	8.50	0.11	0.21	9.60
130	17.8	7.94	0.14	0.15	3.44	19.5	30.0	24.5	5.18	0.12	0.15	7.26
135	7.08	1.83	0.14	0.17	1.55	12.2	19.8	14.2	1.53	0.13	0.16	2.09
140	1.23	0.24	0.16	0.18	0.76	6.76	8.54	5.52	0.68	0.16	0.18	0.35
145	0.22	0.19	0.16	0.19	0.42	2.66	2.87	2.39	0.28	0.16	0.19	0.19
150	0.19	0.20	0.17	0.20	0.29	1.31	1.40	1.22	0.21	0.17	0.20	0.19
155	0.19	0.20	0.17	0.21	0.25	0.69	0.76	0.57	0.21	0.19	0.21	0.19
160	0.20	0.21	0.20	0.22	0.23	0.34	0.22	0.24	0.22	0.21	0.21	0.20
165	0.21	0.21	0.21	0.22	0.23	0.25	0.22	0.22	0.22	0.21	0.21	0.20
170	0.21	0.21	0.21	0.22	0.23	0.22	0.23	0.22	0.22	0.21	0.21	0.20
175	0.21	0.21	0.21	0.22	0.23	0.22	0.23	0.22	0.22	0.21	0.21	0.20
180	0.21	0.21	0.21	0.22	0.23	0.22	0.23	0.22	0.22	0.21	0.21	0.21

C Range: 0 - 360DEG
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