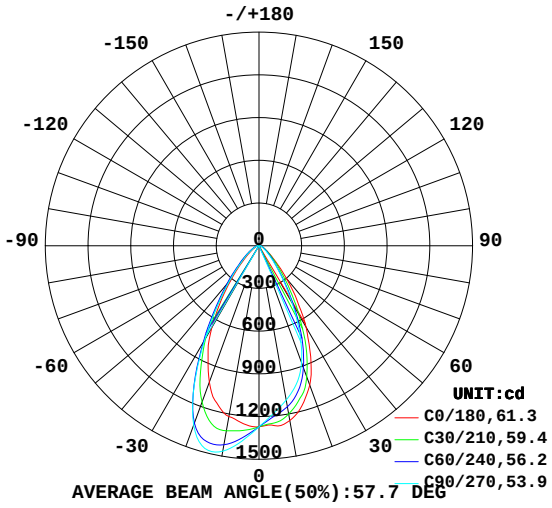
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

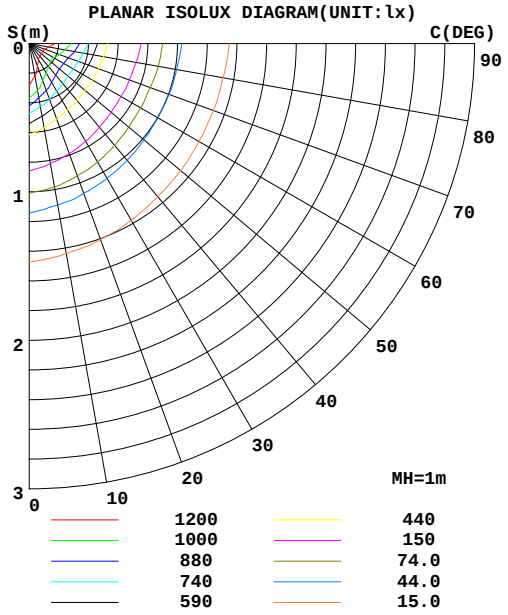
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 84.08 lm/W	
MODEL	HCP-3564186	Imax(cd)	1483	S/MH(C0/180)	0.92
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	0.95
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1459.0	η UP,DN(C0-180)	1.2,42.1
NOMINAL FLUX(lm)	1458.98	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,55.7
LAMPS INSIDE	1	η up(%)	2.2	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	24	η down(%)	97.8	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):57.7 DEG

PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [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	1247	1174	1100	1120	1218	1369	1464	1406	0- 10	121.2	121.2	8.31,8.31
20	1042	946.9	874.7	899.5	1019	1247	1341	1294	10- 20	337.5	458.7	31.4,31.4
30	664.7	526.4	467.8	522.7	661.4	766.6	763.7	788.3	20- 30	398.8	857.5	58.8,58.8
40	301.3	223.0	189.3	229.1	293.9	342.4	322.6	356.7	30- 40	276.2	1134	77.7,77.7
50	117.8	99.15	79.64	99.81	113.3	149.0	134.0	153.5	40- 50	144.1	1278	87.6,87.6
60	50.71	49.96	39.50	49.98	48.67	69.50	61.90	71.67	50- 60	74.37	1352	92.7,92.7
70	23.69	28.01	22.46	28.33	23.55	35.33	29.55	35.92	60- 70	40.70	1393	95.5,95.5
80	9.686	15.58	12.75	16.03	9.580	18.04	14.39	17.98	70- 80	22.42	1415	97,97
90	0.8661	8.061	7.051	8.412	0.7989	8.654	7.409	8.780	80- 90	11.28	1427	97.8,97.8
100	0.3431	6.940	6.594	7.040	0.2269	7.125	6.820	7.156	90-100	6.505	1433	98.2,98.2
110	0.4531	5.266	6.597	5.755	0.3696	5.569	7.103	5.587	100-110	5.592	1439	98.6,98.6
120	0.9560	4.073	6.634	4.631	0.8719	3.969	6.909	3.990	110-120	4.345	1443	98.9,98.9
130	1.910	3.952	6.006	4.381	1.825	3.175	5.739	3.229	120-130	3.436	1446	99.1,99.1
140	3.425	5.111	5.739	5.488	3.349	3.494	3.641	3.500	130-140	3.025	1449	99.3,99.3
150	5.200	7.451	6.647	7.818	5.182	5.643	4.158	5.426	140-150	3.170	1453	99.6,99.6
160	6.452	8.907	8.255	9.536	6.564	7.862	5.959	7.191	150-160	3.226	1456	99.8,99.8
170	7.394	9.231	7.807	9.691	7.528	9.240	6.875	8.439	160-170	2.302	1458	99.9,99.9
180	8.360	10.38	8.231	10.00	8.423	10.37	8.224	10.00	170-180	0.8412	1459	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1218.3 lm

%lum = 83.5%
%lamp = 83.5%

Conical surface Flux(120deg): 1352.1 lm

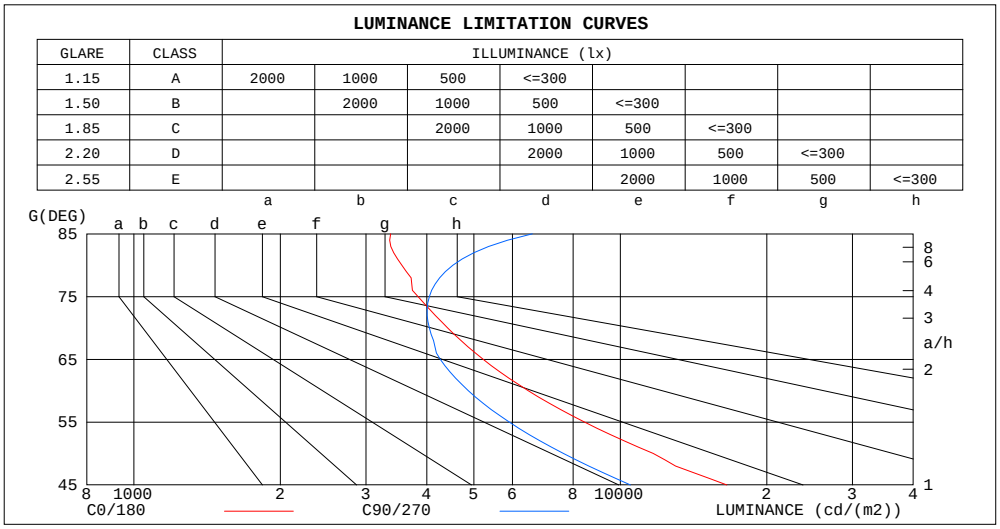
%lum = 92.7%
%lamp = 92.7%

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3373	6591
80	3556	4527
75	3839	4049
70	4416	4049
65	5225	4265
60	6466	4870
55	8441	5910
50	11681	7638
45	16551	10490

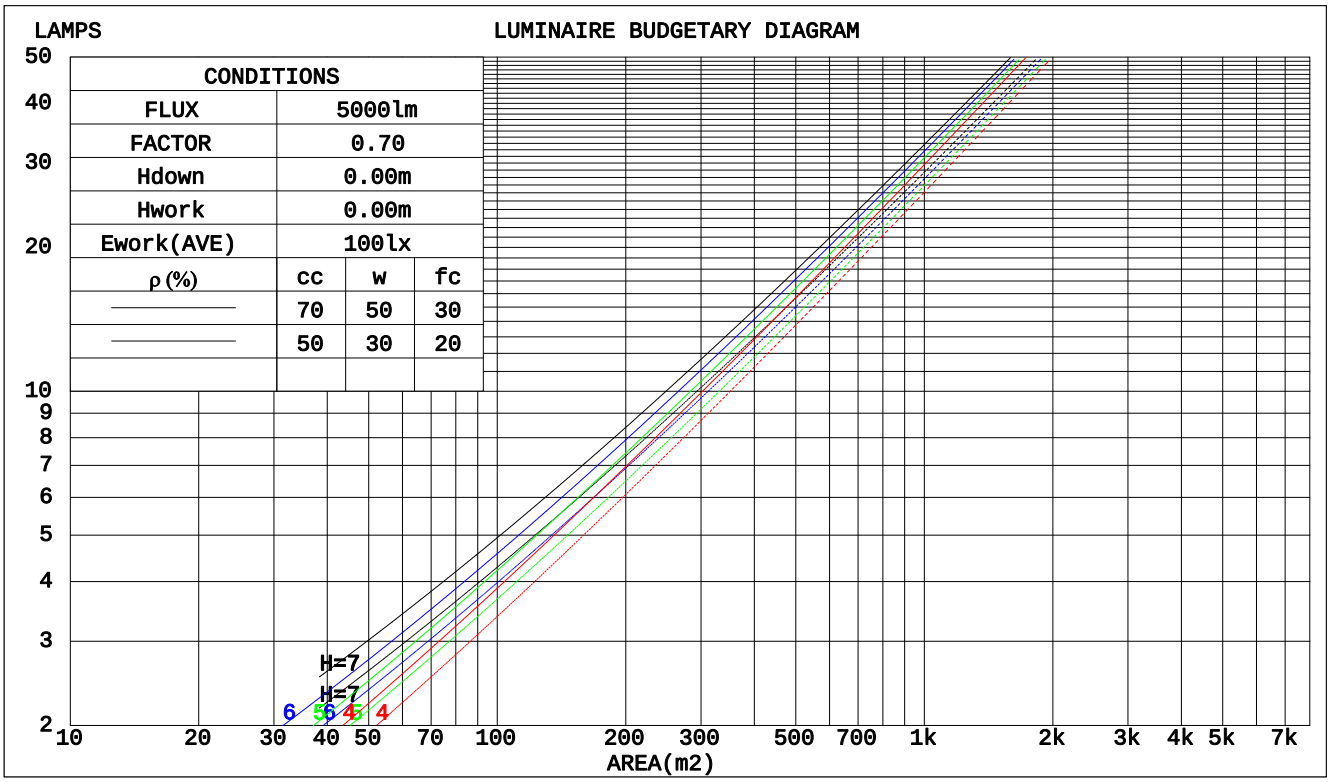
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	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	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.08	1.05	1.03	1.06	1.03	1.01	1.01	.99	.97	.97	.96	.94	.93	.92	.91	.89
2.0	.99	.94	.90	.97	.93	.89	.94	.90	.87	.90	.87	.85	.87	.85	.83	.81
3.0	.91	.85	.81	.90	.84	.80	.87	.82	.78	.84	.80	.77	.81	.78	.75	.74
4.0	.84	.78	.73	.83	.77	.72	.80	.75	.71	.78	.74	.70	.76	.72	.69	.67
5.0	.78	.71	.66	.77	.71	.66	.75	.69	.65	.73	.68	.64	.71	.67	.64	.62
6.0	.73	.66	.61	.72	.65	.61	.70	.64	.60	.68	.63	.59	.66	.62	.59	.57
7.0	.68	.61	.56	.67	.60	.56	.65	.60	.55	.64	.59	.55	.62	.58	.55	.53
8.0	.63	.57	.52	.63	.56	.52	.61	.56	.52	.60	.55	.51	.59	.54	.51	.49
9.0	.59	.53	.48	.59	.53	.48	.58	.52	.48	.57	.51	.48	.55	.51	.47	.46
10.0	.56	.50	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.52	.48	.44	.43



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	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	.213	.121	.038	.206	.117	.037	.192	.110	.035	.179	.103	.033	.167	.097	.031	
2.0	.202	.111	.034	.196	.108	.033	.184	.102	.032	.173	.097	.030	.162	.092	.029	
3.0	.190	.101	.030	.185	.099	.030	.174	.095	.029	.165	.090	.028	.156	.086	.027	
4.0	.180	.093	.027	.175	.091	.027	.165	.088	.026	.157	.084	.025	.149	.081	.025	
5.0	.169	.086	.025	.165	.085	.025	.157	.082	.024	.149	.079	.023	.142	.076	.023	
6.0	.160	.080	.023	.156	.079	.023	.149	.076	.022	.142	.074	.022	.136	.072	.021	
7.0	.152	.075	.021	.148	.074	.021	.142	.072	.021	.136	.070	.020	.130	.068	.020	
8.0	.144	.070	.020	.141	.069	.020	.135	.068	.019	.130	.066	.019	.125	.064	.019	
9.0	.137	.066	.019	.134	.066	.018	.129	.064	.018	.124	.062	.018	.120	.061	.018	
10.0	.131	.063	.017	.128	.062	.017	.123	.060	.017	.119	.059	.017	.115	.058	.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	.207	.207	.207	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.191	.174	.159	.163	.149	.137	.112	.103	.095	.064	.059	.055	.021	.019	.018	
2.0	.177	.150	.126	.152	.129	.109	.104	.089	.076	.060	.052	.045	.019	.017	.015	
3.0	.166	.131	.103	.143	.113	.089	.098	.079	.063	.057	.046	.037	.018	.015	.012	
4.0	.157	.117	.086	.135	.101	.075	.093	.070	.053	.054	.041	.031	.017	.013	.010	
5.0	.149	.106	.074	.128	.091	.064	.088	.064	.045	.051	.037	.027	.016	.012	.009	
6.0	.142	.097	.064	.122	.084	.056	.084	.059	.040	.049	.034	.024	.016	.011	.008	
7.0	.135	.089	.057	.116	.077	.050	.080	.054	.035	.047	.032	.021	.015	.010	.007	
8.0	.129	.083	.052	.111	.072	.045	.077	.051	.032	.045	.030	.019	.015	.010	.006	
9.0	.124	.078	.047	.107	.068	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
10.0	.119	.074	.044	.103	.064	.038	.071	.045	.027	.042	.027	.016	.013	.009	.005	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	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	17.6	18.7	17.9	18.9	19.1	15.7	16.8	16.0	17.0	17.3
3H	18.0	19.0	18.3	19.2	19.5	16.3	17.3	16.6	17.5	17.8
4H	18.2	19.1	18.5	19.4	19.6	16.6	17.5	16.9	17.8	18.1
6H	18.3	19.2	18.6	19.5	19.8	16.9	17.8	17.3	18.1	18.4
8H	18.3	19.2	18.7	19.5	19.8	17.1	18.0	17.5	18.3	18.6
12H	18.4	19.2	18.7	19.5	19.8	17.4	18.2	17.7	18.5	18.8
4H 2H	17.6	18.5	17.9	18.8	19.1	15.9	16.8	16.2	17.1	17.4
3H	18.1	19.0	18.5	19.3	19.6	16.6	17.4	17.0	17.7	18.1
4H	18.4	19.2	18.8	19.5	19.9	17.1	17.8	17.4	18.1	18.5
6H	18.7	19.3	19.1	19.7	20.1	17.6	18.2	18.0	18.6	19.0
8H	18.8	19.4	19.2	19.8	20.2	17.9	18.5	18.3	18.9	19.3
12H	18.9	19.4	19.3	19.8	20.3	18.2	18.8	18.7	19.2	19.6
8H 4H	18.5	19.1	18.9	19.5	19.9	17.2	17.8	17.6	18.2	18.6
6H	18.9	19.4	19.4	19.8	20.3	17.9	18.4	18.4	18.9	19.3
8H	19.1	19.5	19.6	20.0	20.5	18.4	18.8	18.8	19.2	19.7
12H	19.3	19.6	19.8	20.1	20.6	18.9	19.2	19.4	19.7	20.2
12H 4H	18.5	19.0	18.9	19.4	19.9	17.2	17.8	17.7	18.2	18.6
6H	18.9	19.4	19.4	19.8	20.3	18.0	18.4	18.5	18.9	19.4
8H	19.2	19.6	19.7	20.0	20.6	18.5	18.9	19.0	19.4	19.9
Variations with the observer position at spacings:										
S = 1.0H	+ 1.8 / - 1.2					+ 0.8 / - 0.8				
1.5H	+ 2.9 / - 1.4					+ 1.5 / - 0.6				
2.0H	+ 2.7 / - 1.1					+ 1.2 / - 0.6				

CIE Pub.117, 1459 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.3)
Area: 0.01845 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

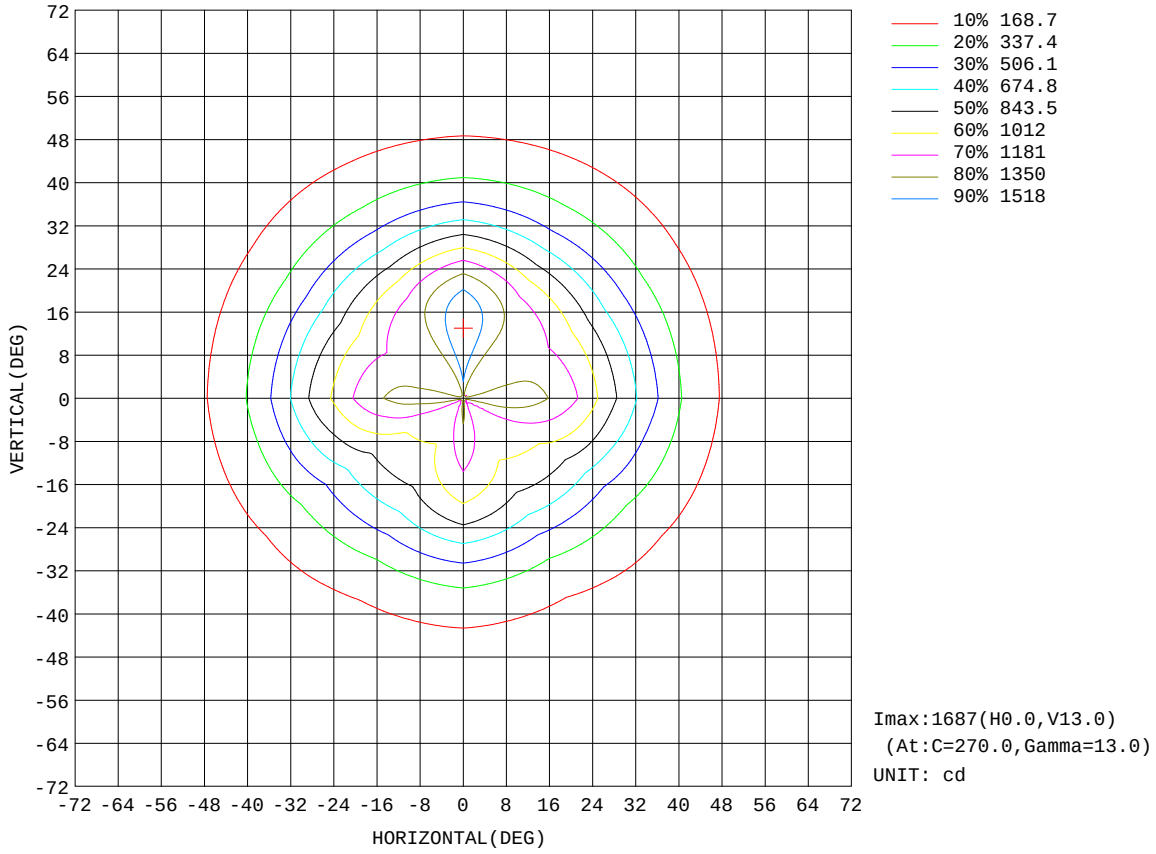
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	78	70	65	77	69	65	76	69	65	60
0.80	86	78	74	85	78	73	84	77	73	68
1.00	92	85	80	91	84	80	89	84	79	74
1.25	97	90	85	96	89	85	93	88	84	79
1.50	100	94	90	99	93	89	96	91	88	82
2.00	104	99	94	102	97	94	99	95	92	86
2.50	106	101	97	104	100	96	101	97	94	87
3.00	108	104	100	106	102	99	102	99	97	89
4.00	111	107	104	109	105	103	104	102	100	92
5.00	112	109	107	110	107	105	106	104	102	93
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:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-



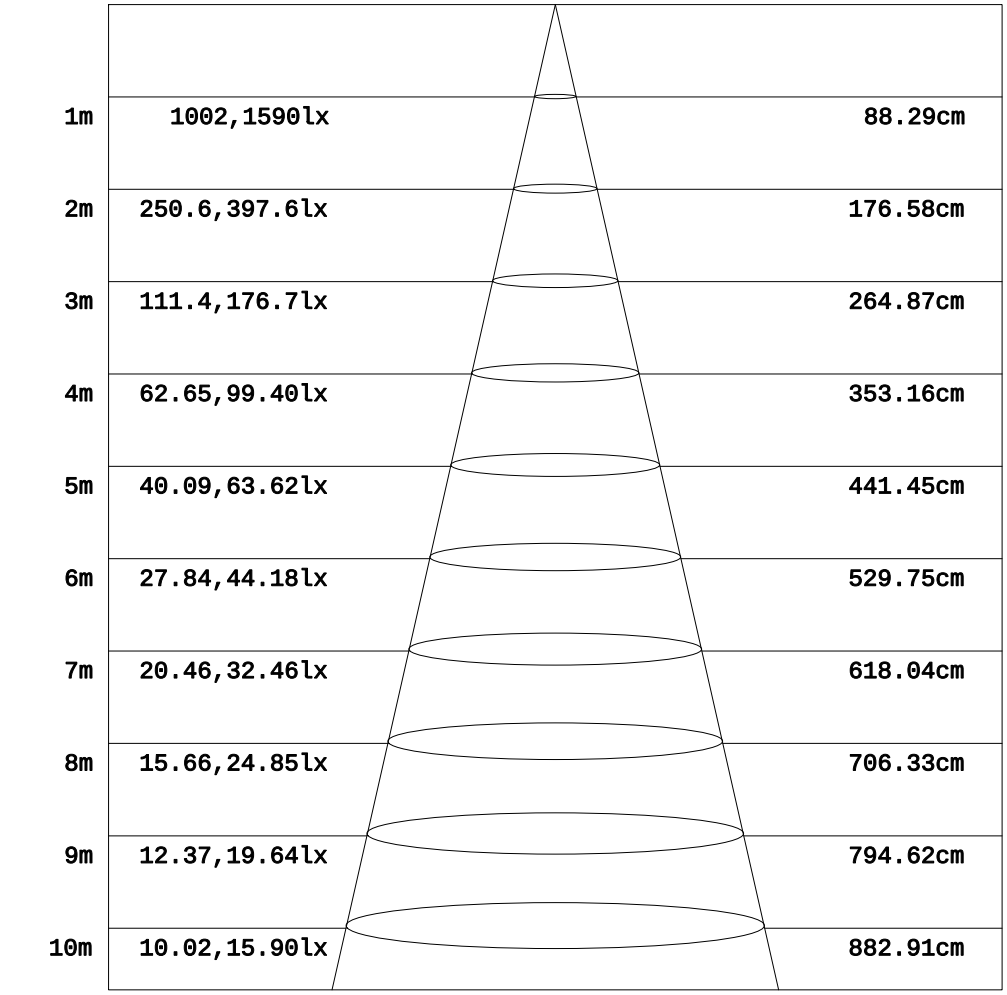
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

AAI Figure

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

Flux out:624.2 lm



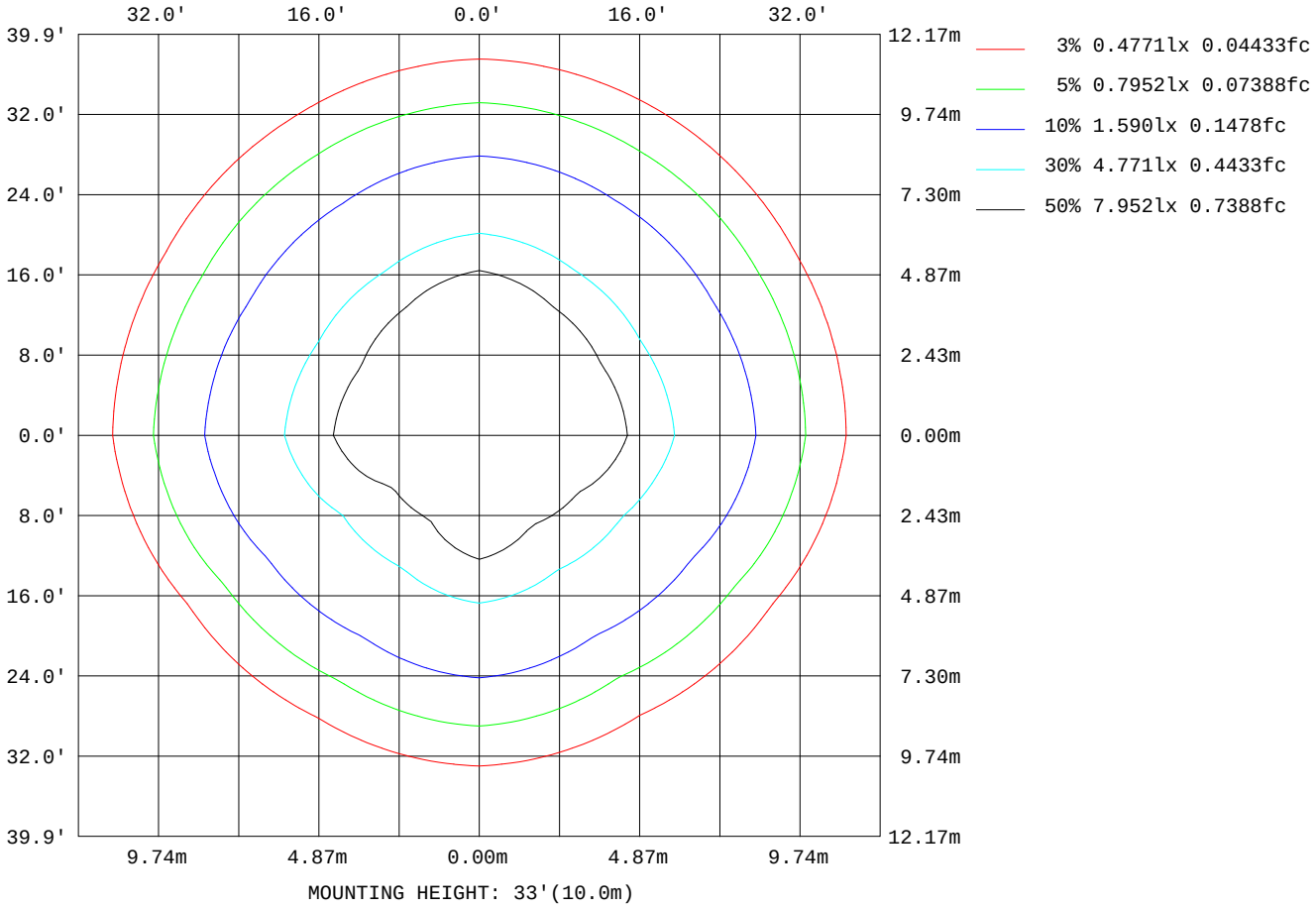
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

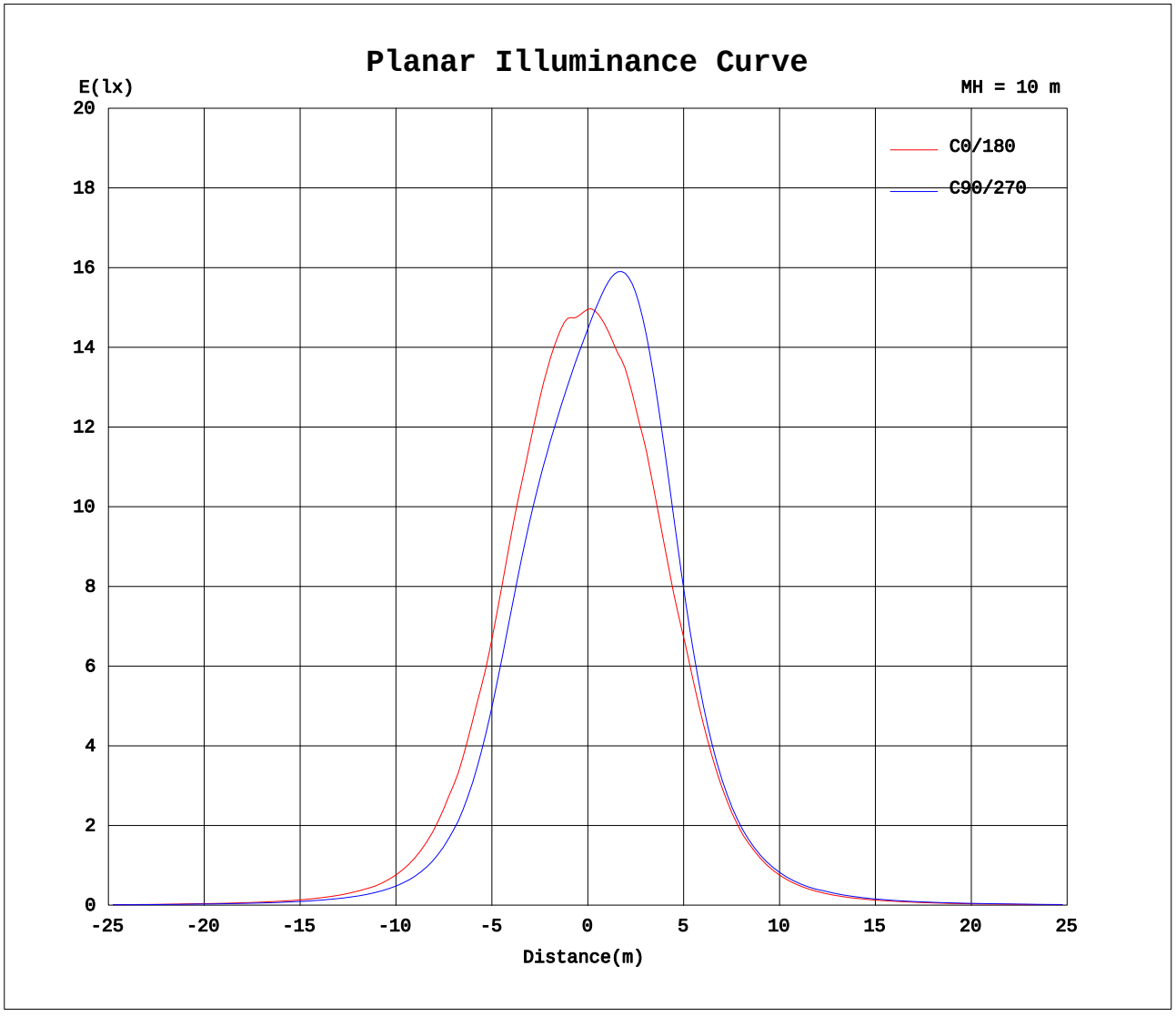
AvgL	cd/m2
L_0~180(65)av	4366
L_0~180(75)av	3287
L_0~180(85)av	2849
L_90~270(65)av	4608
L_90~270(75)av	3917
L_90~270(85)av	6080
L_45(65)av	5803
L_45(75)av	5045
L_45(85)av	7967

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:50.8%
Test Distance:3.154m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.881V I:0.7266A P:17.353W PF:1.0000 Freq:0Hz Lamp Flux:1458.98x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272	1272
5	1268	1249	1203	1182	1183	1200	1254	1303	1354	1376	1367	1330
10	1247	1200	1148	1100	1105	1136	1218	1319	1419	1464	1445	1368
15	1164	1111	1059	1009	1023	1046	1144	1293	1424	1473	1467	1359
20	1042	981	913	875	886	913	1019	1169	1326	1341	1353	1235
25	859	784	713	678	699	737	848	973	1080	1075	1101	1028
30	665	562	491	468	501	544	661	749	784	764	807	769
35	465	382	316	302	326	379	456	509	534	503	542	545
40	301	247	199	189	211	247	294	333	352	323	365	349
45	184	161	135	120	141	161	182	212	228	205	236	226
50	118	108	90.6	79.6	93.0	107	113	146	152	134	156	151
55	75.9	73.8	64.6	55.0	66.1	72.6	72.8	98.0	104	91.4	107	101
60	50.7	53.4	46.5	39.5	47.7	52.3	48.7	67.8	71.2	61.9	73.4	70.0
65	34.6	39.3	35.0	29.2	35.7	38.9	33.4	48.1	51.1	42.6	52.3	50.2
70	23.7	29.8	26.2	22.5	26.8	29.9	23.6	33.8	36.9	29.6	36.8	35.0
75	15.6	21.7	19.8	17.0	20.4	21.9	15.8	23.8	26.6	20.4	26.4	24.5
80	9.69	15.5	15.7	12.8	16.2	15.9	9.58	16.9	19.2	14.4	18.8	17.2
85	4.61	10.68	11.6	9.32	12.2	11.1	4.55	11.8	13.6	10.2	13.2	11.9
90	0.87	7.18	8.95	7.05	9.28	7.55	0.80	7.62	9.70	7.41	9.63	7.93
95	0.34	6.16	8.44	6.54	8.43	6.26	0.25	6.15	8.70	6.68	8.70	6.46
100	0.34	5.45	8.44	6.59	8.43	5.66	0.23	5.54	8.73	6.82	8.67	5.65
105	0.39	4.47	8.16	6.62	8.22	4.80	0.23	4.48	8.48	6.99	8.38	4.59
110	0.45	2.87	7.69	6.60	7.70	3.82	0.37	3.17	8.00	7.10	7.91	3.27
115	0.65	2.11	7.17	6.64	7.19	3.00	0.58	2.08	7.38	7.16	7.31	2.12
120	0.96	1.90	6.27	6.63	6.69	2.58	0.87	1.49	6.47	6.91	6.47	1.52
125	1.37	2.11	5.53	6.44	6.32	2.51	1.28	1.44	5.42	6.40	5.43	1.46
130	1.91	2.68	5.24	6.01	5.81	2.96	1.83	1.89	4.47	5.74	4.57	1.89
135	2.60	3.59	4.99	5.85	5.68	3.87	2.52	2.65	3.52	4.86	3.72	2.61
140	3.43	4.70	5.53	5.74	5.94	5.04	3.35	3.61	3.38	3.64	3.50	3.50
145	4.32	5.89	6.59	5.86	6.80	6.32	4.27	4.73	4.18	3.40	4.21	4.52
150	5.20	7.03	7.88	6.65	8.08	7.56	5.18	5.92	5.36	4.16	5.30	5.56
155	5.93	7.92	8.92	7.65	9.23	8.57	5.99	7.05	6.60	5.12	6.35	6.48
160	6.45	8.40	9.42	8.26	9.92	9.15	6.56	8.01	7.71	5.96	7.19	7.19
165	6.89	8.70	9.40	8.21	10.03	9.45	7.06	8.78	8.50	6.50	7.85	7.79
170	7.39	9.15	9.31	7.81	9.77	9.62	7.53	9.39	9.08	6.88	8.49	8.39
175	7.98	9.89	9.79	7.97	9.77	9.86	8.03	10.01	9.67	7.57	9.19	9.15
180	8.36	10.50	10.26	8.23	9.96	10.04	8.42	10.45	10.30	8.22	9.98	10.02

C Range: 0 - 360DEG
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