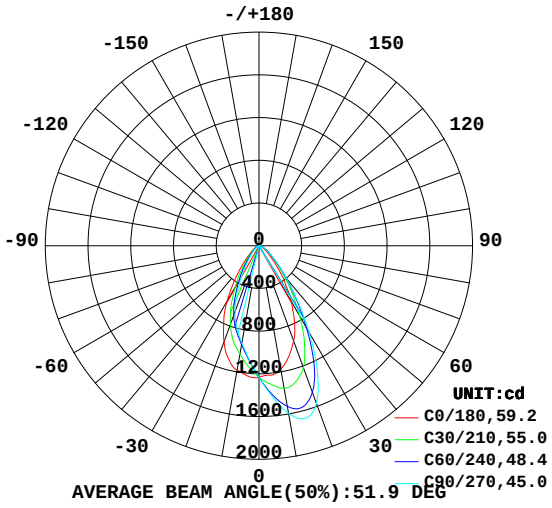
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

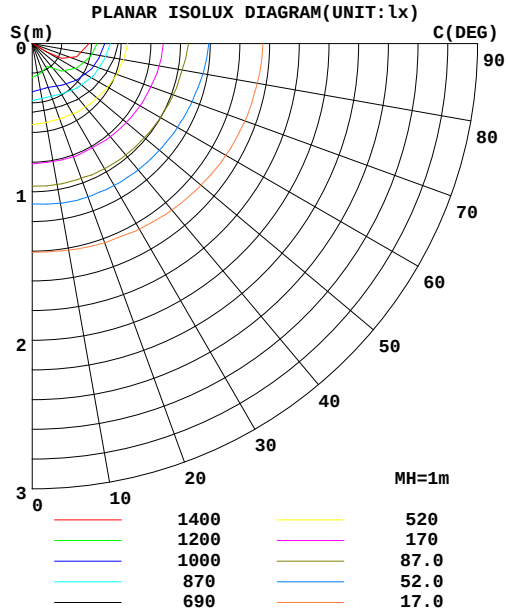
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 81.40 lm/W	
MODEL	HCP-3564183	Imax(cd)	1674	S/MH(C0/180)	0.90
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	0.65
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1387.9	η UP,DN(C0-180)	1.2,60.9
NOMINAL FLUX(lm)	1387.91	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,36.8
LAMPS INSIDE	1	η up(%)	2.3	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	24	η down(%)	97.7	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):51.9 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	1173	1442	1591	1420	1183	985.3	924.7	1006	0- 10	116.9	116.9	8.42,8.42
20	949.9	1340	1572	1286	959.2	737.5	655.9	771.6	10- 20	322.4	439.3	31.7,31.7
30	609.6	828.9	941.2	750.0	596.8	409.8	320.3	424.8	20- 30	377.5	816.8	58.9,58.9
40	283.1	380.2	402.8	324.2	263.0	174.0	125.6	180.0	30- 40	259.5	1076	77.5,77.5
50	112.0	159.2	170.6	139.2	102.4	79.79	57.04	81.48	40- 50	136.2	1212	87.4,87.4
60	48.74	75.40	75.74	67.63	45.14	41.89	30.78	42.83	50- 60	70.88	1283	92.5,92.5
70	23.20	38.01	35.60	34.94	22.26	24.84	18.05	25.09	60- 70	39.48	1323	95.3,95.3
80	9.603	19.07	17.16	17.43	9.065	14.29	10.57	14.34	70- 80	21.98	1345	96.9,96.9
90	0.9901	9.725	7.830	8.586	0.8976	7.333	5.824	6.875	80- 90	10.98	1356	97.7,97.7
100	0.3760	7.749	7.223	7.234	0.2301	6.338	5.715	5.730	90-100	6.234	1362	98.1,98.1
110	0.5774	7.010	7.998	6.033	0.3578	5.144	5.846	4.486	100-110	5.535	1368	98.5,98.5
120	0.9709	5.274	8.558	4.491	0.8363	4.149	5.776	3.587	110-120	4.509	1372	98.9,98.9
130	1.798	3.787	7.413	3.381	1.734	4.121	5.628	3.688	120-130	3.595	1376	99.1,99.1
140	3.261	3.174	4.102	3.245	3.171	5.439	5.743	4.988	130-140	3.051	1379	99.3,99.3
150	4.947	4.812	3.481	5.058	4.826	7.963	7.223	7.351	140-150	3.055	1382	99.6,99.6
160	6.064	6.663	5.225	7.128	5.956	9.652	8.850	8.846	150-160	3.102	1385	99.8,99.8
170	6.757	8.057	6.616	8.819	6.690	9.521	7.914	9.176	160-170	2.219	1387	99.9,99.9
180	7.764	9.669	8.119	10.21	7.851	9.656	8.107	10.20	170-180	0.8119	1388	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1156 lm

%lum = 83.3%
%lamp = 83.3%

Conical surface Flux(120deg): 1283.4 lm

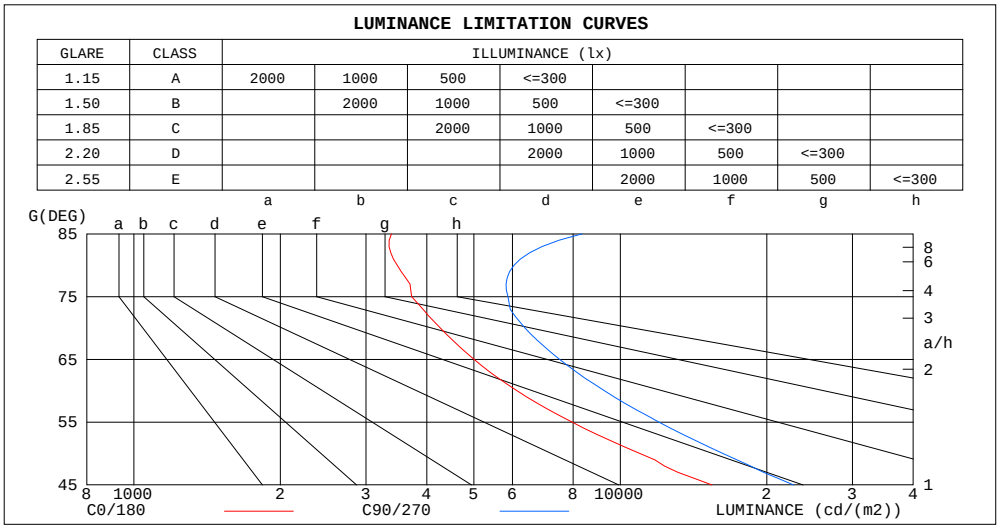
%lum = 92.5%
%lamp = 92.5%

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:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 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	3384	8345
80	3477	6045
75	3725	5876
70	4264	6369
65	5002	7497
60	6129	9268
55	7953	11996
50	10958	16237
45	15426	22703

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:

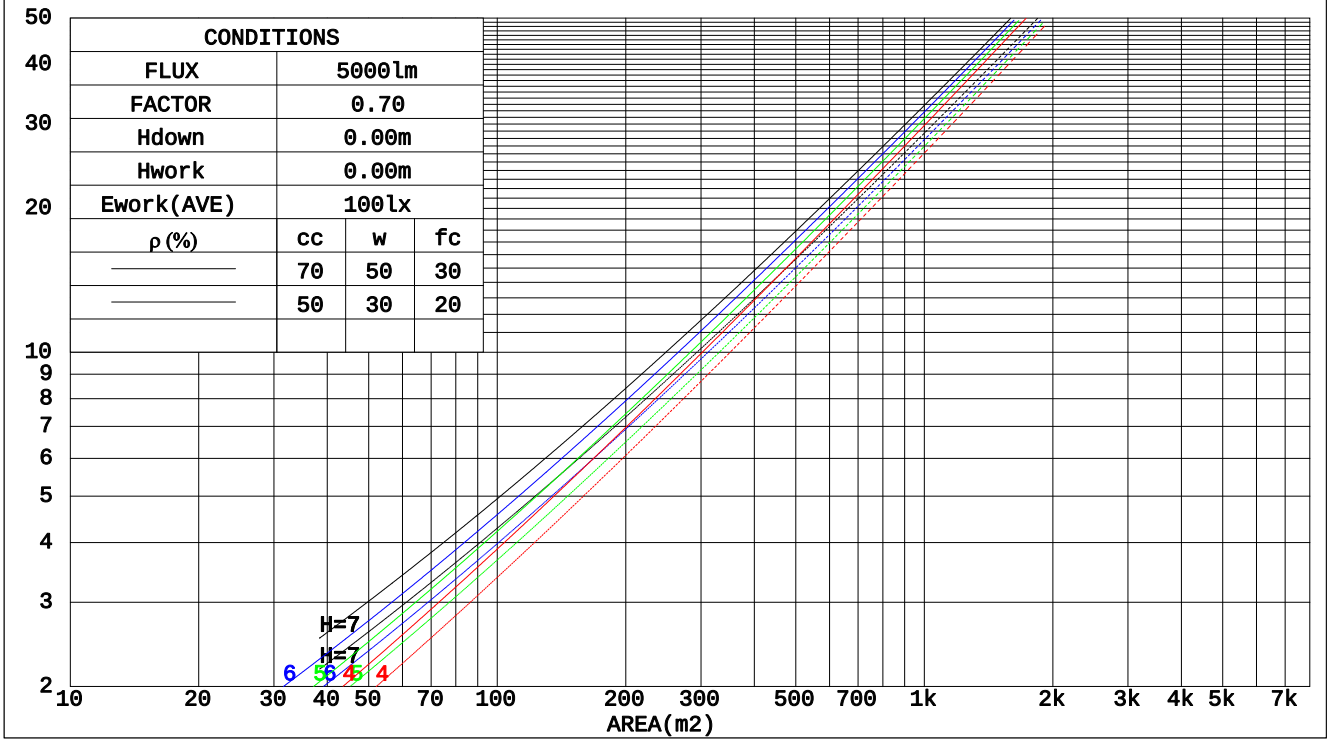
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 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	1.18	1.18	1.18	1.15	1.15	1.15	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	.73
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	.49	.59	.53	.48	.58	.52	.48	.57	.51	.48	.56	.51	.47	.46
10.0	.56	.50	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.52	.48	.45	.43

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



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:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 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	.214	.122	.039	.206	.118	.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	.191	.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	.124	.064	.019	
9.0	.137	.066	.019	.134	.065	.018	.129	.064	.018	.124	.062	.018	.119	.061	.018	
10.0	.131	.063	.017	.128	.062	.017	.123	.060	.017	.119	.059	.017	.114	.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	.208	.208	.208	.178	.178	.178	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.191	.175	.160	.164	.150	.137	.112	.103	.095	.064	.060	.055	.021	.019	.018	
2.0	.178	.150	.127	.153	.129	.110	.105	.089	.076	.060	.052	.045	.019	.017	.015	
3.0	.167	.132	.104	.143	.114	.090	.098	.079	.063	.057	.046	.037	.018	.015	.012	
4.0	.158	.118	.087	.135	.102	.075	.093	.071	.053	.054	.041	.031	.017	.013	.010	
5.0	.150	.106	.074	.128	.092	.065	.088	.064	.046	.051	.038	.027	.017	.012	.009	
6.0	.142	.097	.065	.122	.084	.057	.084	.059	.040	.049	.035	.024	.016	.011	.008	
7.0	.136	.090	.058	.117	.078	.050	.081	.055	.036	.047	.032	.021	.015	.011	.007	
8.0	.130	.084	.052	.112	.073	.046	.077	.051	.032	.045	.030	.019	.015	.010	.006	
9.0	.125	.079	.048	.107	.068	.042	.074	.048	.030	.043	.028	.018	.014	.009	.006	
10.0	.120	.075	.044	.103	.065	.039	.072	.046	.027	.042	.027	.016	.014	.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:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 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	19.0	20.1	19.3	20.3	20.5	20.5	21.6	20.8	21.8	22.0
3H	19.3	20.2	19.6	20.5	20.7	20.8	21.8	21.1	22.1	22.3
4H	19.4	20.3	19.7	20.6	20.8	21.0	21.9	21.3	22.2	22.5
6H	19.5	20.3	19.8	20.6	20.9	21.1	22.0	21.5	22.3	22.6
8H	19.5	20.3	19.8	20.6	20.9	21.2	22.1	21.6	22.4	22.7
12H	19.5	20.3	19.8	20.6	20.9	21.3	22.1	21.7	22.4	22.8
4H 2H	19.1	20.1	19.4	20.3	20.6	20.5	21.4	20.8	21.7	22.0
3H	19.6	20.4	19.9	20.7	21.0	20.9	21.8	21.3	22.1	22.4
4H	19.8	20.5	20.2	20.9	21.2	21.2	21.9	21.6	22.3	22.6
6H	20.0	20.6	20.4	21.0	21.4	21.4	22.1	21.9	22.5	22.9
8H	20.0	20.6	20.5	21.0	21.5	21.6	22.2	22.0	22.6	23.0
12H	20.1	20.7	20.6	21.1	21.5	21.8	22.3	22.2	22.8	23.2
8H 4H	19.9	20.5	20.3	20.9	21.3	21.2	21.8	21.6	22.2	22.6
6H	20.2	20.7	20.7	21.2	21.6	21.6	22.1	22.0	22.5	23.0
8H	20.4	20.8	20.9	21.3	21.8	21.8	22.3	22.3	22.7	23.2
12H	20.6	20.9	21.1	21.4	21.9	22.1	22.5	22.6	23.0	23.5
12H 4H	19.9	20.4	20.3	20.8	21.3	21.2	21.7	21.6	22.1	22.6
6H	20.3	20.7	20.8	21.2	21.7	21.6	22.0	22.1	22.5	23.0
8H	20.5	20.9	21.0	21.4	21.9	21.9	22.3	22.4	22.7	23.3

Variations with the observer position at spacings:		
S = 1.0H	+ 1.0 / - 1.4	+ 1.3 / - 1.3
1.5H	+ 1.6 / - 1.1	+ 2.2 / - 1.1
2.0H	+ 1.7 / - 1.3	+ 2.4 / - 1.2

CIE Pub.117, 1388 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.1)
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:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

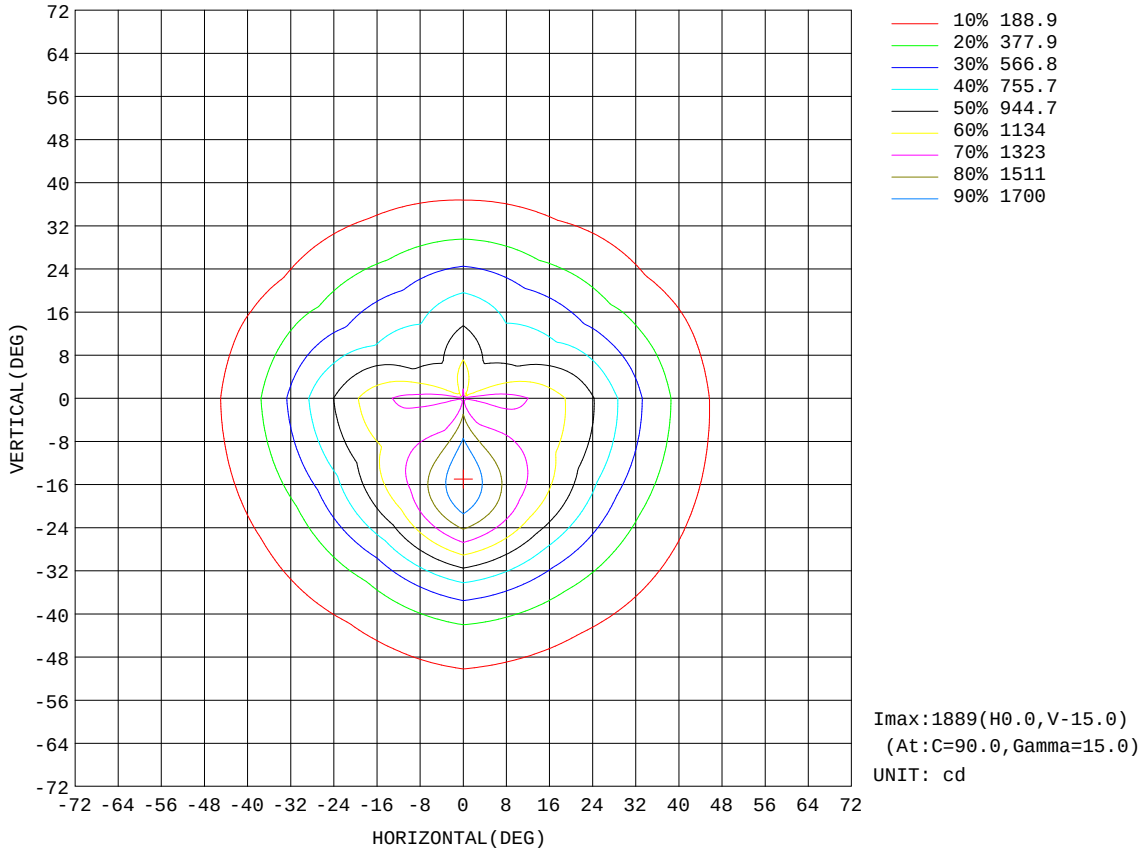
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	77	70	65	77	69	65	76	69	64	60
0.80	86	78	73	85	78	73	84	77	73	68
1.00	92	84	80	91	84	79	89	84	79	74
1.25	97	90	85	95	89	85	93	88	84	79
1.50	100	94	89	99	93	89	96	91	88	82
2.00	104	99	94	102	97	93	99	95	92	85
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	91
5.00	112	109	107	110	107	105	106	103	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:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-



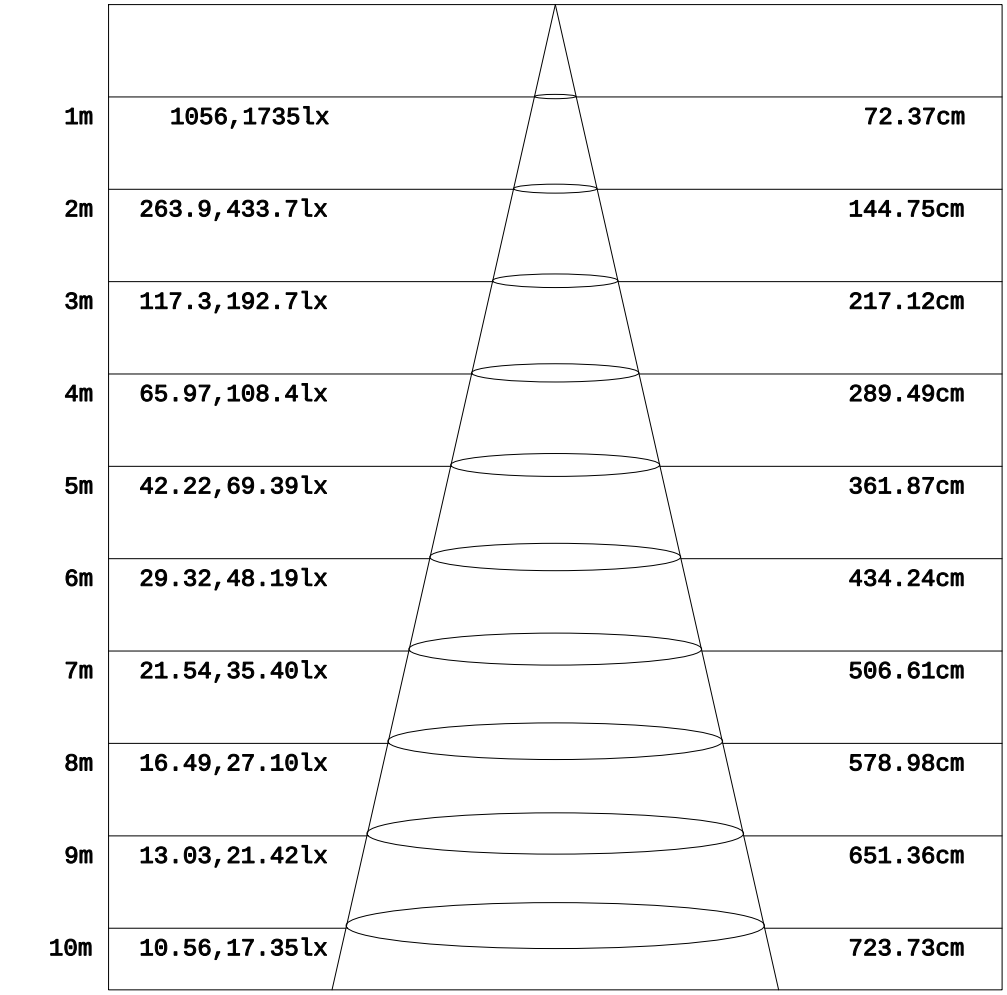
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Young
Test Date:2021-12-27

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:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

Flux out:439.3 lm



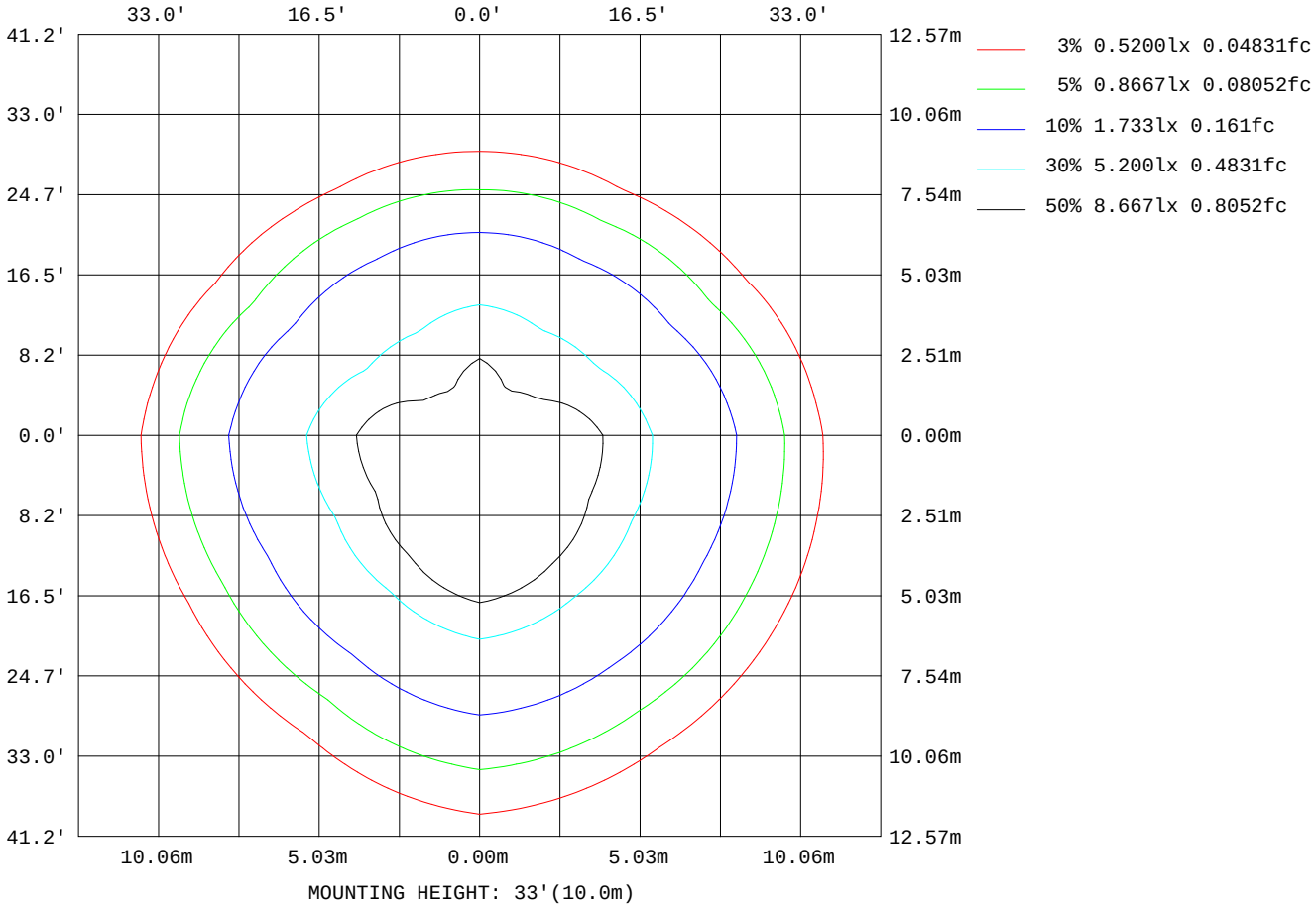
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 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:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 lm		
NAME: LED Strip Light	TYPE:LED	WEIGHT:/
SPEC.:/	DIM.: /	SERIAL No.:1
MFR.: Havit Commercial	SUR.:1025mm*18mm	Shielding Angle:-

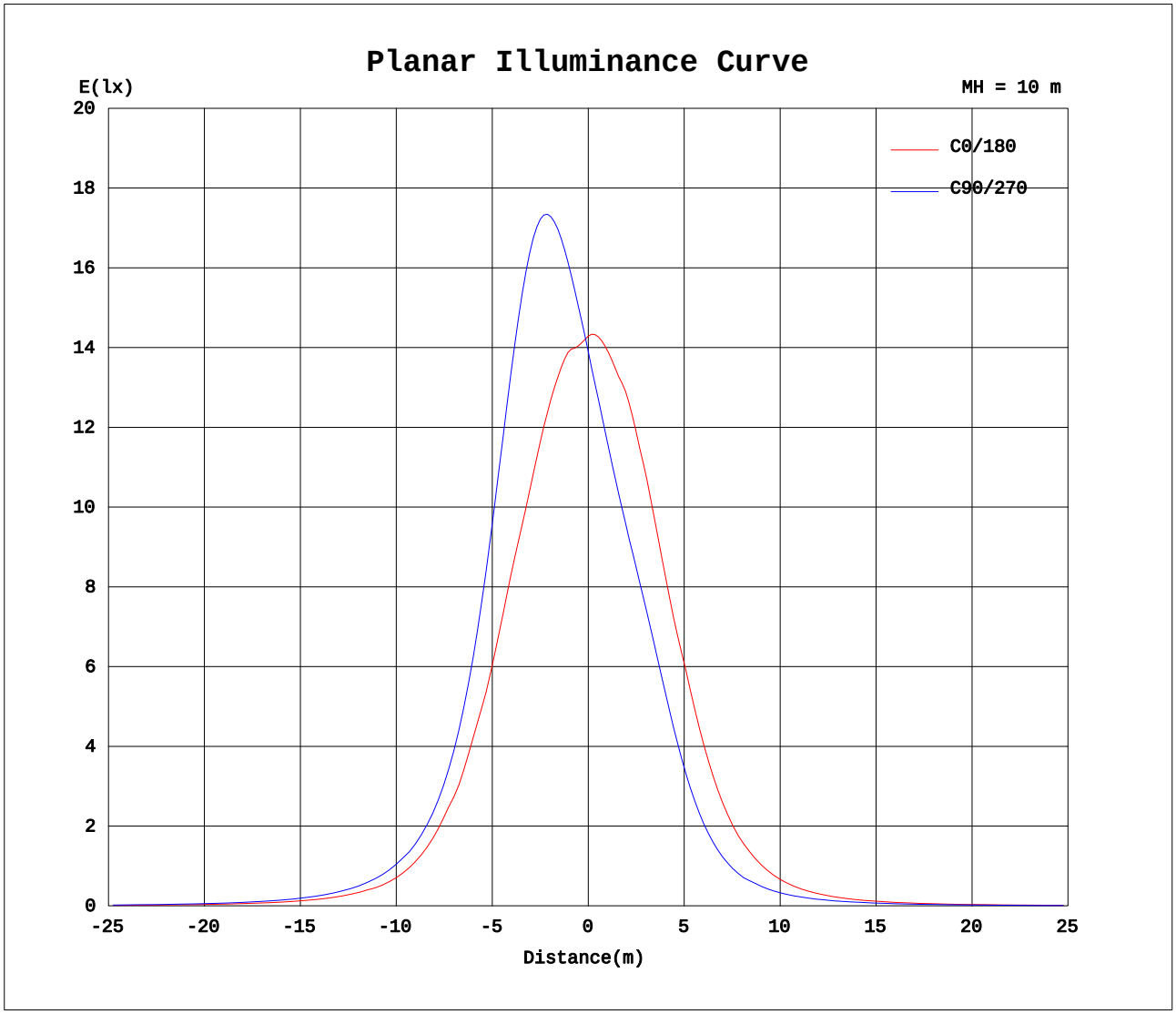
AvgL	cd/m2
L_0~180(65)av	4165
L_0~180(75)av	3173
L_0~180(85)av	2816
L_90~270(65)av	4829
L_90~270(75)av	4095
L_90~270(85)av	6055
L_45(65)av	5516
L_45(75)av	4861
L_45(85)av	7649

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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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



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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:23.883V I:0.7139A P:17.050W PF:1.0000 Freq:0Hz Lamp Flux:1387.91x1 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	1232	1232	1232	1232	1232	1232	1232	1232	1232	1232	1232	1232
5	1218	1302	1396	1416	1379	1295	1224	1136	1075	1067	1087	1143
10	1173	1356	1527	1591	1501	1338	1183	1030	941	925	952	1061
15	1076	1323	1566	1674	1544	1294	1099	929	824	799	836	947
20	950	1217	1462	1572	1416	1155	959	781	694	656	719	825
25	787	1010	1220	1295	1131	923	783	619	531	484	549	656
30	610	762	895	941	811	689	597	446	374	320	376	474
35	429	543	610	627	529	460	406	304	247	198	244	326
40	283	361	399	403	341	307	263	192	156	126	155	205
45	173	239	258	262	221	196	163	133	101	83.2	101	141
50	112	152	167	171	149	129	102	89.5	70.2	57.0	68.7	94.3
55	72.6	101	119	112	104	88.9	66.7	62.2	50.2	41.2	50.6	65.5
60	48.7	69.9	80.8	75.7	71.7	63.6	45.1	45.8	38.0	30.8	37.7	48.0
65	33.6	50.8	56.3	51.8	50.9	46.2	31.3	34.6	30.2	23.5	30.1	36.2
70	23.2	37.3	38.8	35.6	36.2	33.7	22.3	25.7	24.0	18.1	23.5	26.7
75	15.3	26.8	27.2	24.9	25.6	24.1	15.0	19.0	18.6	14.3	18.5	19.4
80	9.60	18.9	19.2	17.2	17.8	17.0	9.06	14.4	14.1	10.6	14.2	14.5
85	4.69	13.2	14.2	11.9	13.1	11.6	4.36	10.11	10.20	7.59	10.28	9.88
90	0.99	9.04	10.41	7.83	9.88	7.28	0.90	6.96	7.70	5.82	7.55	6.20
95	0.36	7.42	9.25	7.00	8.88	6.00	0.25	5.90	7.23	5.55	6.95	4.99
100	0.38	6.39	9.10	7.22	9.01	5.45	0.23	5.33	7.34	5.72	6.96	4.49
105	0.45	5.59	9.50	7.60	9.14	4.58	0.22	4.48	7.12	5.79	6.63	3.70
110	0.58	4.61	9.39	8.00	8.69	3.36	0.36	3.57	6.71	5.85	6.19	2.78
115	0.75	3.25	8.97	8.27	8.00	2.33	0.55	2.76	6.38	5.87	5.78	2.13
120	0.97	2.03	8.49	8.56	7.25	1.72	0.84	2.32	5.96	5.78	5.43	1.73
125	1.28	1.62	7.08	8.25	6.15	1.53	1.22	2.32	5.56	5.66	5.03	1.86
130	1.80	1.78	5.78	7.41	4.89	1.86	1.73	2.81	5.41	5.63	4.92	2.45
135	2.46	2.37	3.96	6.08	3.56	2.54	2.39	3.76	5.51	5.68	5.00	3.35
140	3.26	3.18	3.16	4.10	3.11	3.39	3.17	4.96	5.91	5.74	5.54	4.43
145	4.12	4.14	3.54	3.10	3.66	4.38	4.02	6.25	6.98	6.14	6.67	5.59
150	4.95	5.15	4.48	3.48	4.67	5.45	4.83	7.46	8.46	7.22	8.02	6.68
155	5.62	6.10	5.51	4.35	5.76	6.48	5.50	8.39	9.74	8.33	9.08	7.56
160	6.06	6.87	6.46	5.23	6.86	7.40	5.96	8.87	10.43	8.85	9.54	8.15
165	6.44	7.50	7.28	5.99	7.82	8.25	6.30	9.05	10.37	8.61	9.47	8.56
170	6.76	8.12	7.99	6.62	8.64	9.00	6.69	9.22	9.82	7.91	9.32	9.03
175	7.32	8.87	8.82	7.48	9.46	9.74	7.28	9.51	9.47	7.91	9.71	9.72
180	7.76	9.79	9.55	8.12	10.14	10.28	7.85	9.72	9.59	8.11	10.13	10.27

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
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Operators:Young
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