

## IES Flood Report

Photometric Filename:HV548: V/TPF-5MIES

Page 1 of 8 Pages

Report No.: 001

Test Time: 2021-08-31 14:38

## Luminaire Property

Luminaire Manufacturer: Havit Lighting

Luminaire Category: Outdoor lighting

Lamp Catalog: SMD

Luminous Width (mm): 8

Voltage: 12.0V

Power: 2.87W

Luminaire Description: HV3268T-RND-5K

Luminous Length (mm): 90

Luminous Height (mm): 0

Current: 0.236A

Power Factor: 0.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 32.7 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 131.8, 89.6, 92.5, 94.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 83.2, 58.8, 61.8, 63.2

Luminaire Efficacy Rating (LER): 11.45

Max. Intensity: 22.23 cd

S/MH(C0/C180): 1.07

Total Rated Lamp Lumens: 32.7 lm

Efficiency: 100%

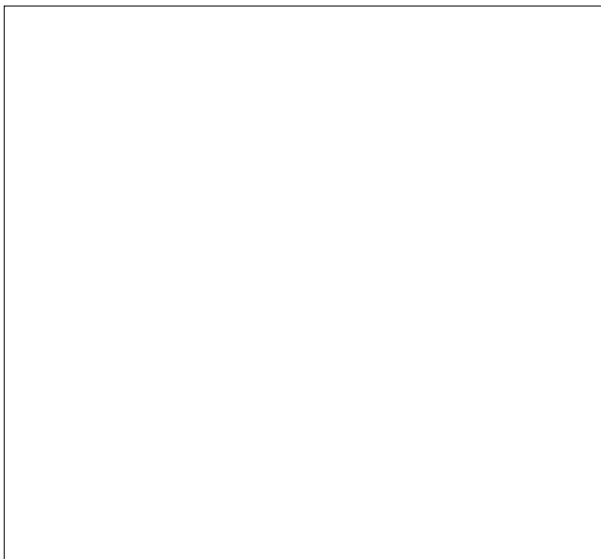
Upward Ratio: 0%

Central Intensity: 20.8 cd

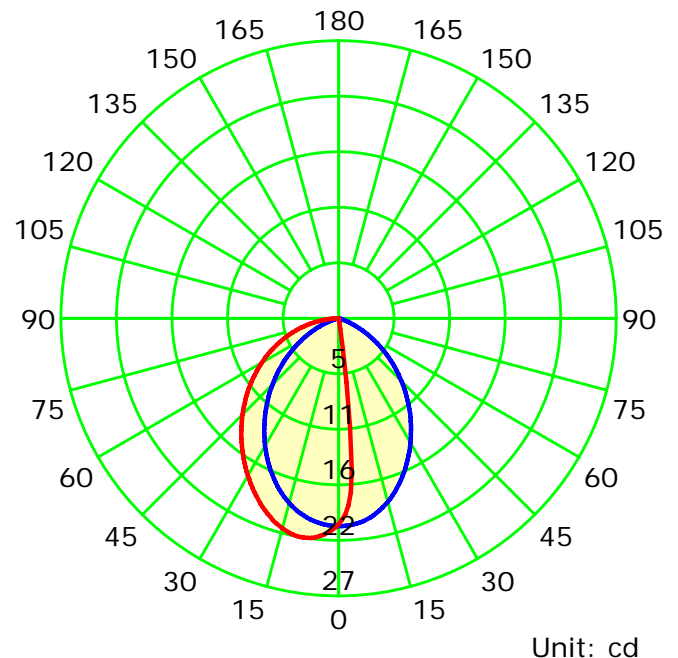
Pos of Max. Intensity: H270 V10

S/MH(C90/C270): 0.44

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 45.0

Test Lab: HAVIT LIGHTING

Test Type: TYPE C

Temperature: 25°C

Operator: DING LI

Gamma Plane (°):0.0-90.0: 1.0

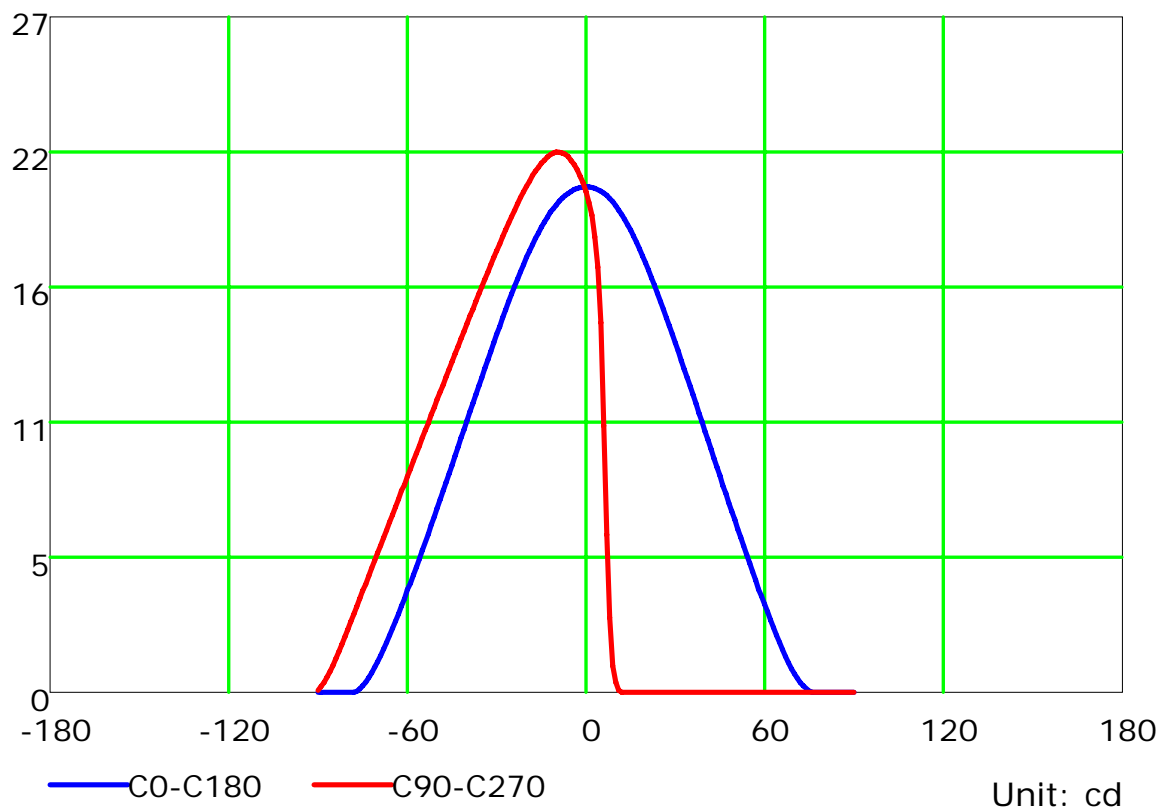
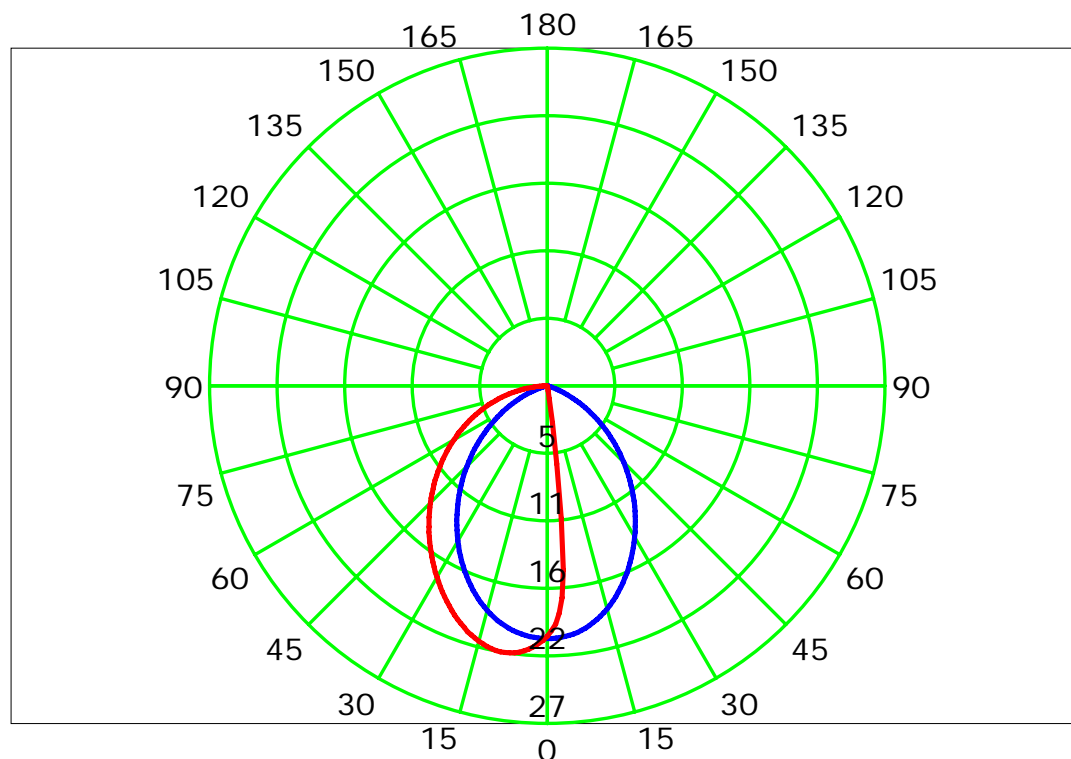
Test Device: GPM-1600L

Distance: 6.583 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve

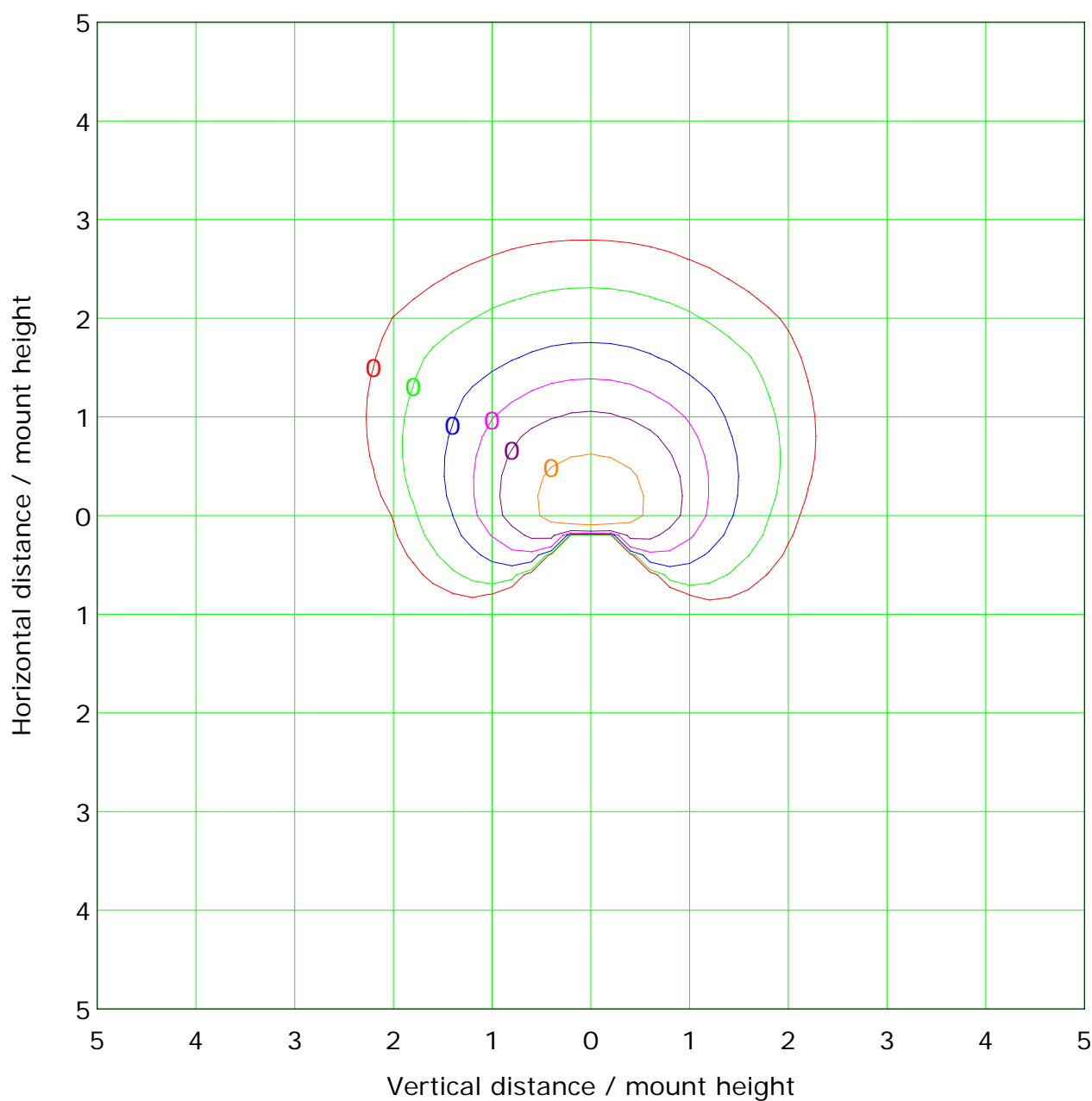


Unit: cd

C Plane (°):0.0-360.0: 45.0  
 Test Lab: HAVIT LIGHTING  
 Test Type: TYPE C  
 Temperature: 25°C  
 Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1600L  
 Distance: 6.583 m  
 Humidity:  
 Inspector:

## IsoLux Plot



Mounting Height: 5.0m    Max Lux(100%): 0.9 lx

— ( 1%): 0.0 lx	— ( 2%): 0.0 lx
— ( 5%): 0.0 lx	— (10%): 0.1 lx
— (20%): 0.2 lx	— (50%): 0.4 lx
— (100%): 0.9 lx	

C Plane (°):0.0-360.0: 45.0

Test Lab: HAVIT LIGHTING

Test Type: TYPE C

Temperature: 25°C

Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0

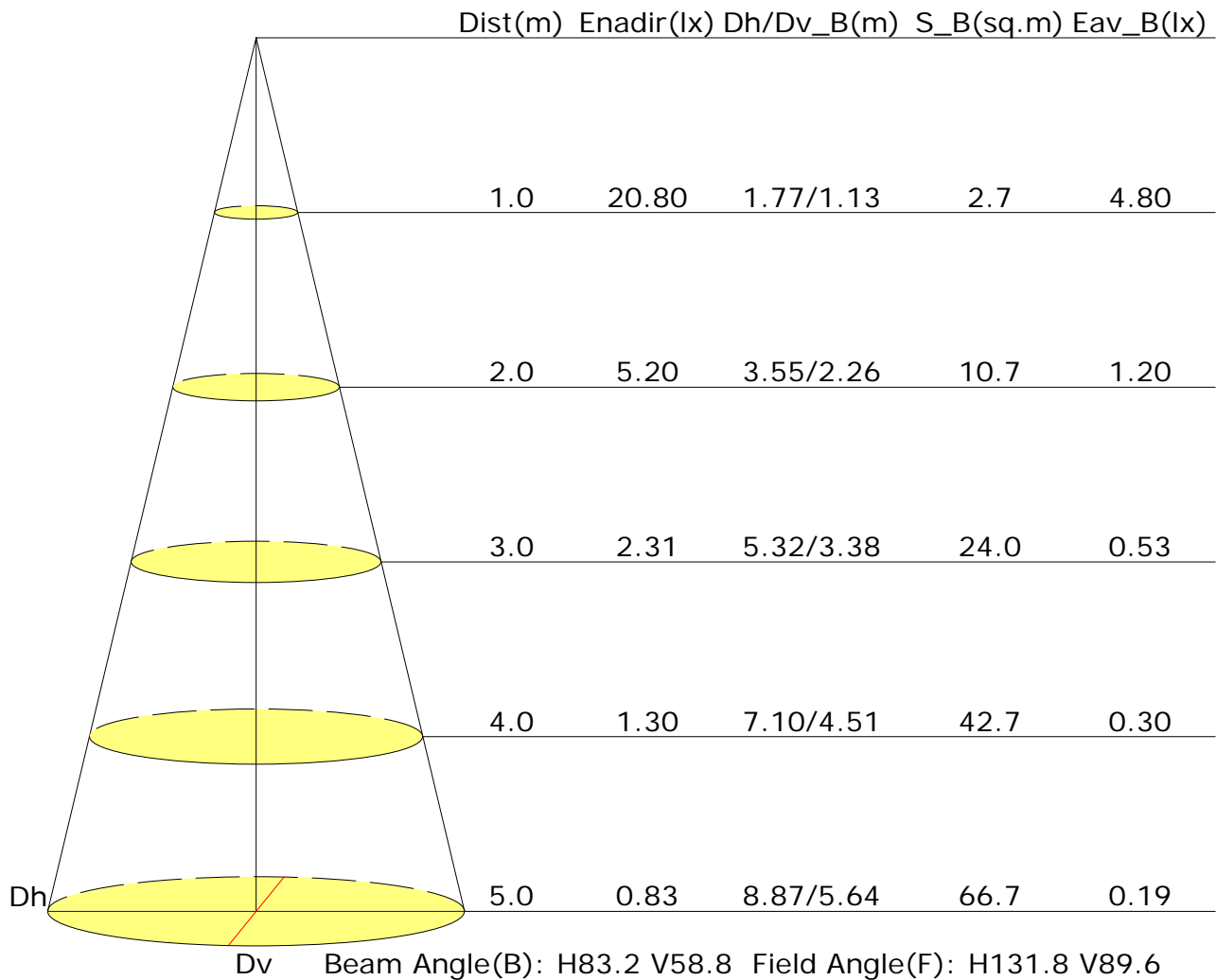
Test Device: GPM-1600L

Distance: 6.583 m

Humidity:

Inspector:

## Illuminance at a Distance



C Plane (°):0.0-360.0: 45.0  
 Test Lab: HAVIT LIGHTING  
 Test Type: TYPE C  
 Temperature: 25°C  
 Operator: DING LI

Gamma Plane (°):0.0-90.0: 1.0  
 Test Device: GPM-1600L  
 Distance: 6.583 m  
 Humidity:  
 Inspector:

## UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	21.9	23.2	22.2	23.5	23.7	23.6	24.9	23.9	25.2	25.4
3H	22.4	23.6	22.8	23.9	24.2	25.2	26.4	25.6	26.7	27.0
4H	22.5	23.6	22.8	23.9	24.2	25.9	27.1	26.3	27.3	27.6
6H	22.4	23.5	22.8	23.8	24.1	26.5	27.5	26.8	27.8	28.1
8H	22.4	23.4	22.8	23.7	24.1	26.6	27.7	27.0	28.0	28.3
12H	22.4	23.3	22.7	23.7	24.0	26.8	27.7	27.1	28.1	28.4
X=4H Y=2H	23.0	24.2	23.4	24.4	24.7	24.3	25.4	24.6	25.7	26.0
3H	23.9	24.9	24.3	25.2	25.5	26.1	27.1	26.5	27.4	27.8
4H	24.1	25.0	24.5	25.3	25.7	27.0	27.9	27.4	28.2	28.6
6H	24.2	25.0	24.6	25.4	25.8	27.7	28.4	28.1	28.8	29.2
8H	24.2	24.9	24.7	25.3	25.8	27.9	28.6	28.3	29.0	29.4
12H	24.2	24.9	24.7	25.3	25.7	28.1	28.7	28.5	29.1	29.6
X=8H Y=4H	24.9	25.6	25.4	26.0	26.5	27.3	28.0	27.7	28.4	28.8
6H	25.3	25.9	25.8	26.3	26.8	28.2	28.7	28.6	29.2	29.6
8H	25.4	25.9	25.9	26.4	26.8	28.5	29.0	29.0	29.5	30.0
12H	25.5	25.9	26.0	26.4	26.9	28.8	29.2	29.3	29.7	30.2
X=12H Y=4H	25.0	25.7	25.5	26.1	26.5	27.3	27.9	27.8	28.4	28.8
6H	25.6	26.1	26.0	26.5	27.0	28.3	28.8	28.7	29.2	29.7
8H	25.8	26.2	26.3	26.7	27.2	28.7	29.1	29.2	29.6	30.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.3				
S=1.5H	+0.5/-0.6					+0.5/-0.7				
S=2.0H	+0.9/-1.2					+0.7/-1.3				

Calculate in accordance with CIE Pub.117. The table is revised with 33lm ( $8\log(F/F_0) = -11.9$ ).

C Plane (°):0.0-360.0: 45.0  
 Test Lab: HAVIT LIGHTING  
 Test Type: TYPE C  
 Temperature: 25°C  
 Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0  
 Test Device: GPM-1600L  
 Distance: 6.583 m  
 Humidity:  
 Inspector:

## Candlepower Table

Unit: cd

GVC	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	20.8	20.6	20.6	20.6	20.8	20.6	20.6	20.6	20.8	
G1.0	20.8	20.3	20.2	20.3	20.8	20.9	21.0	20.9	20.8	
G2.0	20.8	20.0	19.6	19.9	20.8	21.1	21.2	21.1	20.8	
G3.0	20.7	19.5	18.7	19.4	20.7	21.3	21.5	21.3	20.7	
G4.0	20.7	18.9	17.5	18.9	20.7	21.4	21.7	21.5	20.7	
G5.0	20.6	18.1	15.2	18.0	20.6	21.6	21.9	21.6	20.6	
G6.0	20.5	16.9	11.0	16.9	20.5	21.7	22.0	21.7	20.5	
G7.0	20.5	15.3	6.5	15.3	20.4	21.7	22.1	21.8	20.5	
G8.0	20.3	12.4	3.1	12.4	20.3	21.8	22.2	21.9	20.3	
G9.0	20.2	9.2	1.1	9.1	20.2	21.8	22.2	21.9	20.2	
G10.0	20.0	6.3	0.4	6.2	20.0	21.8	22.2	21.9	20.0	
G11.0	19.8	3.5	0.1	3.4	19.9	21.8	22.2	21.9	19.8	
G12.0	19.7	1.8	0.0	1.8	19.8	21.8	22.1	21.9	19.7	
G13.0	19.5	0.9	0.0	0.9	19.5	21.7	22.0	21.8	19.5	
G14.0	19.2	0.4	0.0	0.4	19.4	21.6	21.9	21.8	19.2	
G15.0	19.0	0.2	0.0	0.2	19.1	21.5	21.8	21.7	19.0	
G16.0	18.8	0.0	0.0	0.0	18.9	21.4	21.6	21.6	18.8	
G17.0	18.5	0.0	0.0	0.0	18.7	21.2	21.4	21.5	18.5	
G18.0	18.3	0.0	0.0	0.0	18.4	21.1	21.3	21.3	18.3	
G19.0	18.0	0.0	0.0	0.0	18.2	20.9	21.0	21.2	18.0	
G20.0	17.7	0.0	0.0	0.0	17.9	20.7	20.8	21.0	17.7	
G21.0	17.4	0.0	0.0	0.0	17.6	20.5	20.6	20.8	17.4	
G22.0	17.0	0.0	0.0	0.0	17.3	20.3	20.4	20.6	17.0	
G23.0	16.8	0.0	0.0	0.0	17.0	20.1	20.1	20.4	16.8	
G24.0	16.4	0.0	0.0	0.0	16.7	19.8	19.8	20.2	16.4	
G25.0	16.1	0.0	0.0	0.0	16.4	19.6	19.6	19.9	16.1	
G26.0	15.8	0.0	0.0	0.0	16.1	19.3	19.3	19.7	15.8	
G27.0	15.4	0.0	0.0	0.0	15.7	19.1	19.0	19.4	15.4	
G28.0	15.1	0.0	0.0	0.0	15.4	18.8	18.8	19.2	15.1	
G29.0	14.7	0.0	0.0	0.0	15.1	18.5	18.5	18.9	14.7	
G30.0	14.4	0.0	0.0	0.0	14.7	18.2	18.2	18.6	14.4	
G31.0	14.1	0.0	0.0	0.0	14.4	17.9	17.9	18.4	14.1	
G32.0	13.6	0.0	0.0	0.0	14.0	17.6	17.6	18.1	13.6	
G33.0	13.3	0.0	0.0	0.0	13.7	17.3	17.3	17.8	13.3	
G34.0	12.9	0.0	0.0	0.0	13.3	17.1	17.0	17.5	12.9	
G35.0	12.6	0.0	0.0	0.0	12.9	16.8	16.7	17.2	12.6	
G36.0	12.2	0.0	0.0	0.0	12.6	16.5	16.4	16.9	12.2	

C Plane (°):0.0-360.0: 45.0

Test Lab: HAVIT LIGHTING

Test Type: TYPE C

Temperature: 25°C

Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.583 m

Humidity:

Inspector:

## Candlepower Table (Continue 1)

Unit: cd

GVC	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	11.9	0.0	0.0	0.0	12.3	16.1	16.1	16.6	11.9	
G38.0	11.5	0.0	0.0	0.0	11.9	15.8	15.8	16.3	11.5	
G39.0	11.1	0.0	0.0	0.0	11.6	15.5	15.5	16.0	11.1	
G40.0	10.7	0.0	0.0	0.0	11.2	15.2	15.2	15.6	10.7	
G41.0	10.4	0.0	0.0	0.0	10.8	14.9	14.9	15.4	10.4	
G42.0	10.0	0.0	0.0	0.0	10.5	14.6	14.6	15.0	10.0	
G43.0	9.6	0.0	0.0	0.0	10.1	14.3	14.2	14.7	9.6	
G44.0	9.3	0.0	0.0	0.0	9.7	13.9	13.9	14.4	9.3	
G45.0	8.9	0.0	0.0	0.0	9.3	13.6	13.6	14.1	8.9	
G46.0	8.5	0.0	0.0	0.0	9.0	13.3	13.3	13.8	8.5	
G47.0	8.2	0.0	0.0	0.0	8.6	13.0	13.0	13.4	8.2	
G48.0	7.8	0.0	0.0	0.0	8.3	12.6	12.6	13.1	7.8	
G49.0	7.4	0.0	0.0	0.0	7.9	12.3	12.4	12.8	7.4	
G50.0	7.1	0.0	0.0	0.0	7.6	12.0	12.1	12.5	7.1	
G51.0	6.7	0.0	0.0	0.0	7.2	11.7	11.7	12.2	6.7	
G52.0	6.4	0.0	0.0	0.0	6.9	11.4	11.4	11.9	6.4	
G53.0	6.0	0.0	0.0	0.0	6.5	11.1	11.1	11.6	6.0	
G54.0	5.7	0.0	0.0	0.0	6.2	10.7	10.8	11.2	5.7	
G55.0	5.3	0.0	0.0	0.0	5.8	10.4	10.5	10.9	5.3	
G56.0	5.0	0.0	0.0	0.0	5.5	10.1	10.1	10.6	5.0	
G57.0	4.6	0.0	0.0	0.0	5.1	9.7	9.8	10.3	4.6	
G58.0	4.2	0.0	0.0	0.0	4.8	9.4	9.5	9.9	4.2	
G59.0	4.0	0.0	0.0	0.0	4.5	9.1	9.2	9.6	4.0	
G60.0	3.6	0.0	0.0	0.0	4.2	8.8	8.9	9.3	3.6	
G61.0	3.3	0.0	0.0	0.0	3.8	8.4	8.5	9.0	3.3	
G62.0	3.0	0.0	0.0	0.0	3.5	8.1	8.3	8.6	3.0	
G63.0	2.7	0.0	0.0	0.0	3.2	7.8	7.9	8.4	2.7	
G64.0	2.3	0.0	0.0	0.0	2.9	7.5	7.6	8.0	2.3	
G65.0	2.1	0.0	0.0	0.0	2.6	7.2	7.3	7.7	2.1	
G66.0	1.8	0.0	0.0	0.0	2.3	6.8	7.0	7.4	1.8	
G67.0	1.5	0.0	0.0	0.0	2.0	6.5	6.7	7.0	1.5	
G68.0	1.2	0.0	0.0	0.0	1.8	6.2	6.4	6.7	1.2	
G69.0	1.0	0.0	0.0	0.0	1.5	5.9	6.0	6.4	1.0	
G70.0	0.8	0.0	0.0	0.0	1.3	5.5	5.7	6.1	0.8	
G71.0	0.6	0.0	0.0	0.0	1.0	5.2	5.4	5.8	0.6	
G72.0	0.4	0.0	0.0	0.0	0.8	4.9	5.1	5.5	0.4	
G73.0	0.3	0.0	0.0	0.0	0.6	4.6	4.8	5.1	0.3	

C Plane (°):0.0-360.0: 45.0

Test Lab: HAVIT LIGHTING

Test Type: TYPE C

Temperature: 25°C

Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.583 m

Humidity:

Inspector:

### Candlepower Table (Continue 2)

Unit: cd

[illegible]

C Plane (°):0.0-360.0: 45.0

Test Lab: HAVIT LIGHTING

Test Type: TYPE C

Temperature: 25°C

Operator: DING LI

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 6.583 m

Humidity:

Inspector: