

IES Flood Report

Photometric Filename:HV36052T-C.IES

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Report No.: 001

Test Time: 2020-04-02 10:51

Luminaire Property

Luminaire Manufacturer: Havit Lighting
Luminaire Category: Outdoor lighting
Lamp Catalog: SMD
Luminous Width (mm): -235
Voltage: 230.6 V
Power: 20.70 W

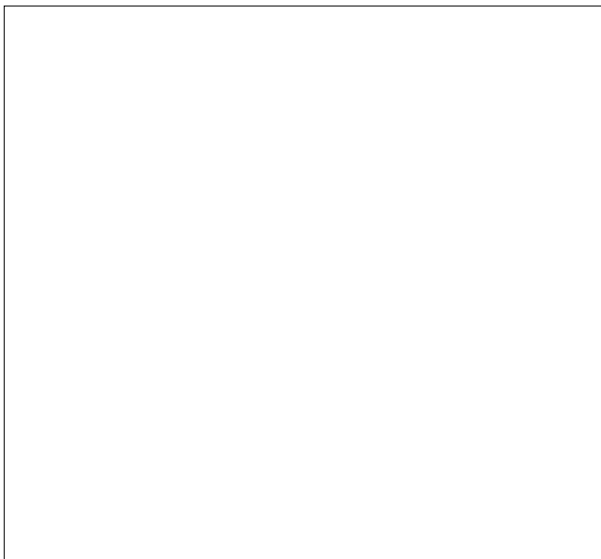
Luminaire Description: HV36052T-C
Luminous Length (mm): -235
Luminous Height (mm): 15
Current: 0.094 A
Power Factor: 0.957

Photometric Results

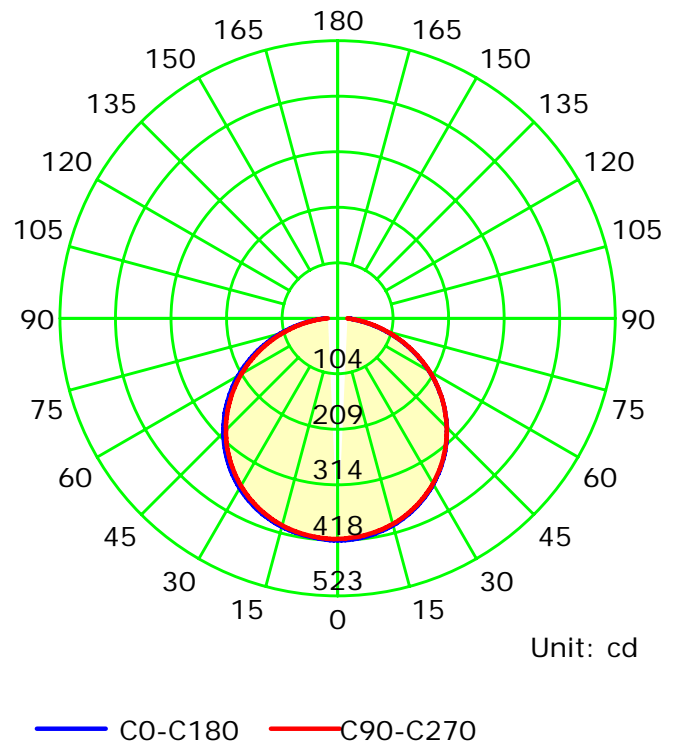
CIE Class: Direct
Measurement Flux: 1309.3 lm
Downward Ratio: 100%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 169.5, 169.2, 169.4, 169.4
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 119.5, 119.0, 119.4, 119.3
Luminaire Efficacy Rating (LER): 63.30
Max. Intensity: 418.93 cd
S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 1309.3 lm
Efficiency: 100%
Upward Ratio: 0%
Central Intensity: 418.79 cd
Pos of Max. Intensity: H0 V1
S/MH(C90/C270): 1.29

Picture Of Luminaire



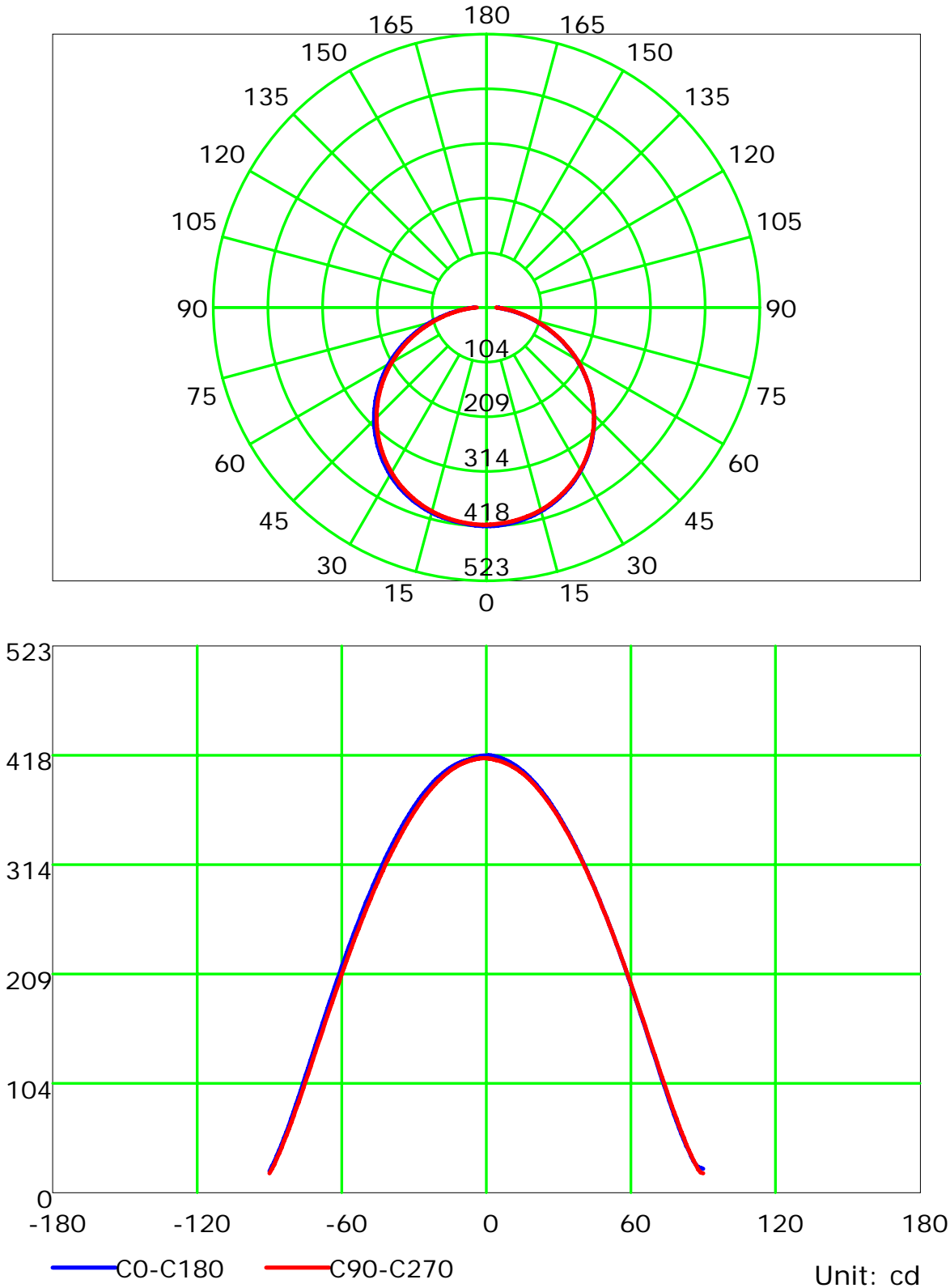
Luminous Intensity Distribution Curve



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:

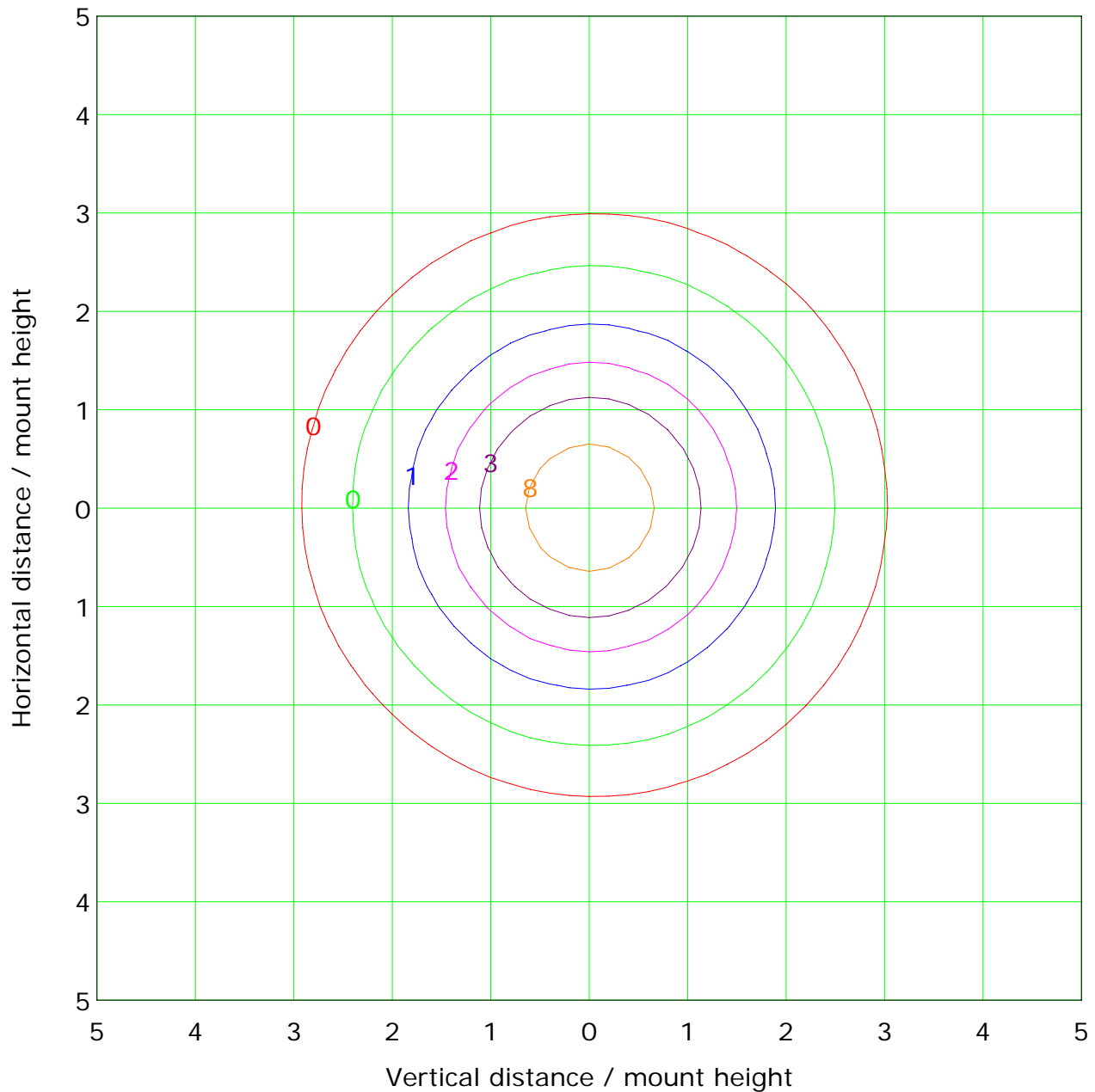
Luminous Intensity Distribution Curve



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IsoLux Plot



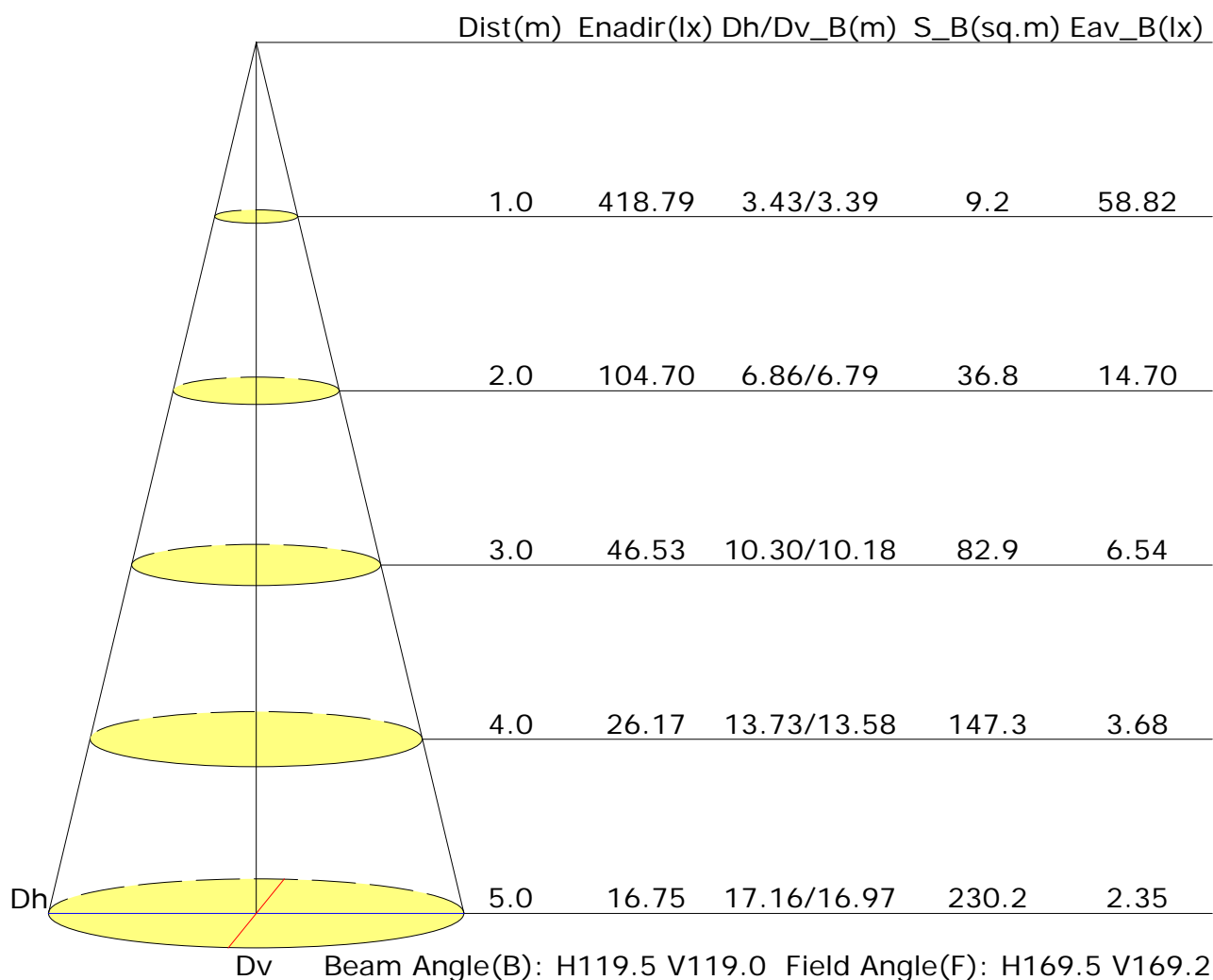
Mounting Height: 5.0m Max Lux(100%): 16.8 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.7 lx
(20%): 3.4 lx	(50%): 8.4 lx
(100%): 16.8 lx	

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Illuminance at a Distance



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 Test Device: GPM-1600L
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 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	20.9	22.3	21.2	22.6	22.8	21.0	22.4	21.3	22.7	22.9
3H	22.7	24.1	23.1	24.3	24.6	22.9	24.2	23.2	24.5	24.8
4H	23.6	24.8	23.9	25.1	25.4	23.8	25.1	24.2	25.3	25.7
6H	24.4	25.6	24.8	25.9	26.2	24.7	25.9	25.1	26.2	26.5
8H	24.9	26.0	25.2	26.3	26.6	25.2	26.4	25.6	26.7	27.0
12H	26.6	27.7	27.0	28.1	28.4	27.2	28.3	27.6	28.6	29.0
X=4H Y=2H	21.7	22.9	22.0	23.2	23.5	21.8	23.0	22.1	23.3	23.6
3H	23.8	24.9	24.2	25.2	25.5	23.9	25.0	24.3	25.3	25.7
4H	24.8	25.8	25.2	26.1	26.5	25.0	26.0	25.4	26.3	26.7
6H	25.8	26.7	26.3	27.1	27.5	26.1	27.0	26.5	27.4	27.8
8H	26.4	27.2	26.9	27.6	28.1	26.8	27.6	27.2	28.0	28.4
12H	28.5	29.2	28.9	29.6	30.1	29.0	29.7	29.5	30.1	30.6
X=8H Y=4H	25.3	26.1	25.8	26.5	27.0	25.5	26.3	25.9	26.7	27.1
6H	26.7	27.3	27.2	27.8	28.2	26.9	27.6	27.4	28.0	28.5
8H	27.7	28.3	28.2	28.7	29.2	28.0	28.6	28.5	29.0	29.5
12H	29.9	30.4	30.4	30.9	31.4	30.4	30.9	30.9	31.4	31.9
X=12H Y=4H	25.5	26.2	25.9	26.6	27.0	25.6	26.3	26.1	26.7	27.2
6H	27.0	27.6	27.5	28.1	28.6	27.3	27.8	27.7	28.3	28.8
8H	28.8	29.3	29.3	29.8	30.3	29.1	29.6	29.5	30.0	30.5
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.3/-0.3				
S=1.5H	+0.6/-0.6					+0.5/-0.6				
S=2.0H	+0.7/-0.9					+0.7/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 1309lm ($8\log(F/F_0) = 0.9$).

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 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	418.8	417.2	416.1	415.4	418.8	417.2	416.1	415.4	418.8	
G1.0	418.9	417.1	415.9	415.3	418.8	417.2	416.3	415.5	418.9	
G2.0	418.8	416.6	415.6	414.9	418.6	417.1	416.2	415.5	418.8	
G3.0	418.4	416.2	415.0	414.4	418.0	416.8	415.8	415.2	418.4	
G4.0	417.8	415.5	414.4	413.8	417.5	416.4	415.6	414.7	417.8	
G5.0	417.2	415.0	413.9	413.3	416.8	415.9	414.9	414.2	417.2	
G6.0	416.5	414.0	413.1	412.6	416.0	415.3	414.4	413.6	416.5	
G7.0	415.5	413.2	412.3	411.8	415.3	414.6	413.8	412.8	415.5	
G8.0	414.5	412.2	411.5	411.1	414.6	414.0	412.9	411.9	414.5	
G9.0	413.5	411.0	410.3	410.3	413.9	413.1	412.1	410.8	413.5	
G10.0	412.2	409.8	409.2	409.3	413.0	412.2	411.0	409.6	412.2	
G11.0	410.7	408.4	407.8	408.1	412.0	411.2	409.9	408.3	410.7	
G12.0	409.3	406.9	406.6	407.0	411.0	410.1	408.8	406.9	409.3	
G13.0	407.8	405.2	405.1	405.7	410.0	409.0	407.4	405.5	407.8	
G14.0	405.9	403.4	403.4	404.1	408.5	407.7	406.0	403.7	405.9	
G15.0	404.1	401.6	401.7	402.6	407.0	406.1	404.3	402.0	404.1	
G16.0	402.3	399.4	399.9	401.0	405.5	404.7	402.5	400.3	402.3	
G17.0	400.0	397.5	397.8	399.2	403.8	402.9	400.6	398.2	400.0	
G18.0	397.9	395.2	395.6	397.2	402.0	401.2	398.8	396.1	397.9	
G19.0	395.3	392.6	393.1	395.0	400.0	399.2	396.3	393.7	395.3	
G20.0	393.0	390.2	390.8	392.8	397.9	397.0	394.4	391.3	393.0	
G21.0	390.3	387.4	388.2	390.4	395.9	394.9	391.8	388.9	390.3	
G22.0	387.5	384.7	385.4	387.9	393.4	392.4	389.4	386.3	387.5	
G23.0	384.8	381.8	382.7	385.4	390.9	390.1	386.7	383.5	384.8	
G24.0	381.5	378.6	379.7	382.6	388.2	387.4	383.9	380.8	381.5	
G25.0	378.5	375.5	376.6	379.8	385.5	384.5	381.0	377.5	378.5	
G26.0	375.4	372.5	373.6	376.9	382.8	381.8	378.3	374.5	375.4	
G27.0	371.8	368.8	370.1	373.7	379.7	378.6	374.9	371.0	371.8	
G28.0	368.4	365.5	366.9	370.5	376.6	375.6	371.7	367.6	368.4	
G29.0	364.9	361.5	363.4	367.1	373.2	372.5	368.1	364.3	364.9	
G30.0	361.0	358.0	359.7	363.7	370.0	368.9	364.7	360.3	361.0	
G31.0	357.2	354.4	355.7	360.1	366.4	365.5	361.0	356.8	357.2	
G32.0	353.1	349.9	351.9	356.3	362.7	361.6	357.3	352.6	353.1	
G33.0	349.1	346.0	347.7	352.3	358.9	358.1	353.5	348.8	349.1	
G34.0	345.1	341.8	343.9	348.5	355.3	354.3	349.5	345.0	345.1	
G35.0	340.6	337.4	339.5	344.5	351.0	350.2	345.2	340.4	340.6	
G36.0	336.3	333.2	335.2	340.2	347.0	346.2	341.0	336.4	336.3	

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 1)

Unit: cd

GVC	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	331.9	328.4	330.7	335.6	342.7	342.1	336.8	331.9	331.9	
G38.0	327.1	323.9	326.0	331.5	338.4	337.7	332.2	327.3	327.1	
G39.0	322.4	319.1	321.3	327.2	333.9	333.3	327.8	322.7	322.4	
G40.0	317.1	313.8	316.5	322.2	329.2	328.6	323.0	317.8	317.1	
G41.0	312.6	309.1	311.6	317.6	324.7	324.0	318.4	312.9	312.6	
G42.0	307.3	304.1	306.8	312.9	320.0	319.5	313.7	308.2	307.3	
G43.0	302.1	298.7	301.3	307.5	315.0	314.2	308.3	302.7	302.1	
G44.0	296.7	293.5	296.4	302.9	309.9	309.5	303.4	297.8	296.7	
G45.0	291.6	287.8	291.1	297.4	304.8	304.5	297.9	292.5	291.6	
G46.0	285.8	282.4	285.6	292.3	299.6	299.1	293.0	287.0	285.8	
G47.0	280.6	277.3	280.1	287.0	294.6	293.9	287.8	281.9	280.6	
G48.0	274.5	271.0	274.1	281.0	288.7	288.3	281.9	275.9	274.5	
G49.0	268.7	265.3	268.7	275.6	283.4	283.0	276.6	270.5	268.7	
G50.0	263.2	259.7	263.1	270.1	278.2	277.7	270.9	264.8	263.2	
G51.0	257.0	253.4	256.9	264.3	272.0	271.6	265.0	258.7	257.0	
G52.0	251.1	247.4	251.0	258.5	266.4	266.0	259.2	252.8	251.1	
G53.0	244.9	241.0	245.1	252.5	260.1	260.5	253.0	247.1	244.9	
G54.0	238.3	234.9	238.7	246.4	254.4	254.1	247.4	240.8	238.3	
G55.0	232.3	228.9	232.6	240.4	248.4	248.4	241.3	234.6	232.3	
G56.0	225.6	222.0	226.2	234.1	242.0	241.8	235.0	228.1	225.6	
G57.0	219.4	215.9	219.9	227.8	236.1	235.9	228.7	222.1	219.4	
G58.0	212.9	209.3	213.4	221.7	229.7	230.0	222.6	215.9	212.9	
G59.0	205.8	202.6	206.8	214.7	222.9	223.1	216.0	209.2	205.8	
G60.0	199.5	196.3	200.3	208.3	216.9	217.0	209.5	202.6	199.5	
G61.0	192.8	188.9	193.8	201.4	209.8	210.4	202.6	196.3	192.8	
G62.0	185.5	182.2	186.7	195.1	203.4	203.5	196.0	189.1	185.5	
G63.0	179.1	175.3	180.0	188.2	196.9	197.3	189.7	182.7	179.1	
G64.0	171.6	168.4	172.8	181.3	189.7	190.2	182.6	175.3	171.6	
G65.0	164.7	161.5	166.2	174.5	183.1	183.7	176.1	168.9	164.7	
G66.0	158.2	154.3	159.5	167.4	176.4	176.9	169.4	162.5	158.2	
G67.0	150.5	147.2	151.9	160.7	169.1	169.7	162.6	155.0	150.5	
G68.0	143.6	140.3	145.3	153.8	162.5	162.5	155.3	148.4	143.6	
G69.0	136.2	133.3	137.9	146.5	154.9	156.1	148.2	141.8	136.2	
G70.0	129.6	126.3	131.4	139.6	148.0	148.9	141.8	134.3	129.6	
G71.0	122.6	119.9	124.4	132.6	141.0	141.8	134.8	127.6	122.6	
G72.0	115.0	112.4	117.0	125.4	133.6	134.5	127.6	120.3	115.0	
G73.0	108.2	105.8	110.5	118.5	126.9	127.8	120.6	113.7	108.2	

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 2)

Unit: cd

[illegible]

C Plane (°):0.0-360.0: 45.0

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