

IES Flood Report

Photometric Filename:HV36052T-N.IES

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Report No.: 001

Test Time: 2020-04-02 10:38

Luminaire Property

Luminaire Manufacturer: Havit Lighting
 Luminaire Category: Outdoor lighting
 Lamp Catalog: SMD
 Luminous Width (mm): -235
 Voltage: 230.6 V
 Power: 19.50 W

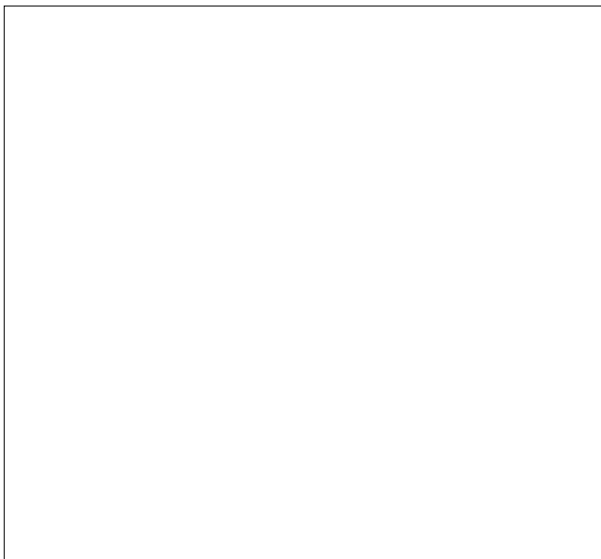
Luminaire Description: HV36052T-N
 Luminous Length (mm): -235
 Luminous Height (mm): 15
 Current: 0.089 A
 Power Factor: 0.950

Photometric Results

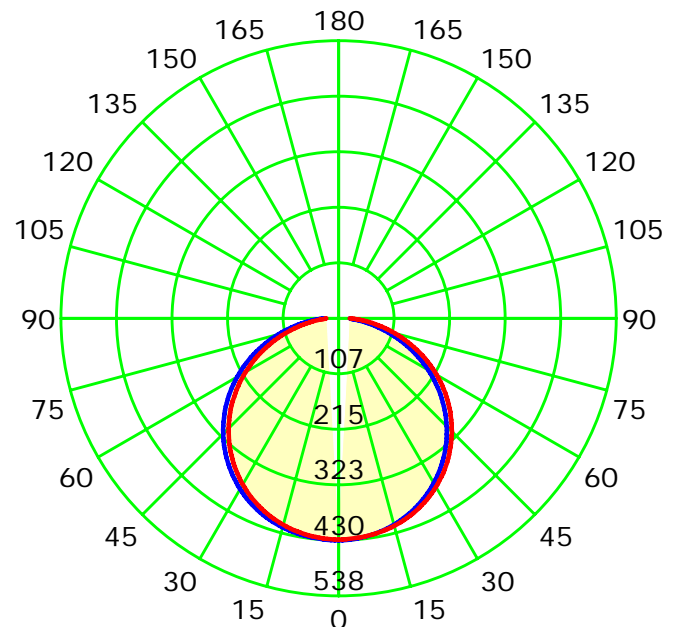
CIE Class: Direct
 Measurement Flux: 1358.1 lm
 Downward Ratio: 100%
 Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 169.9, 170.3, 170.2, 170.1
 Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 119.7, 119.9, 119.6, 120.1
 Luminaire Efficacy Rating (LER): 69.70
 Max. Intensity: 430.73 cd
 S/MH(C0/C180): 1.30

Total Rated Lamp Lumens: 1358.1 lm
 Efficiency: 100%
 Upward Ratio: 0%
 Central Intensity: 430.72 cd
 Pos of Max. Intensity: H0 V0
 S/MH(C90/C270): 1.30

Picture Of Luminaire



Luminous Intensity Distribution Curve



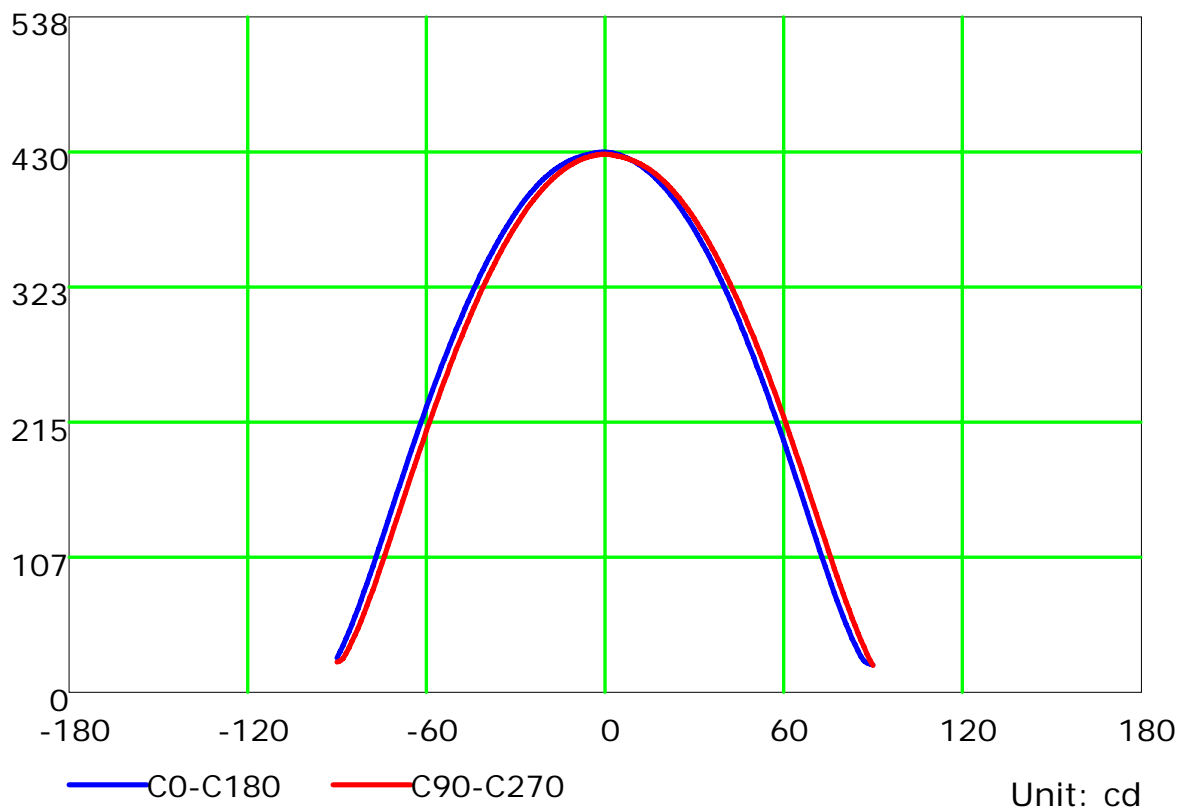
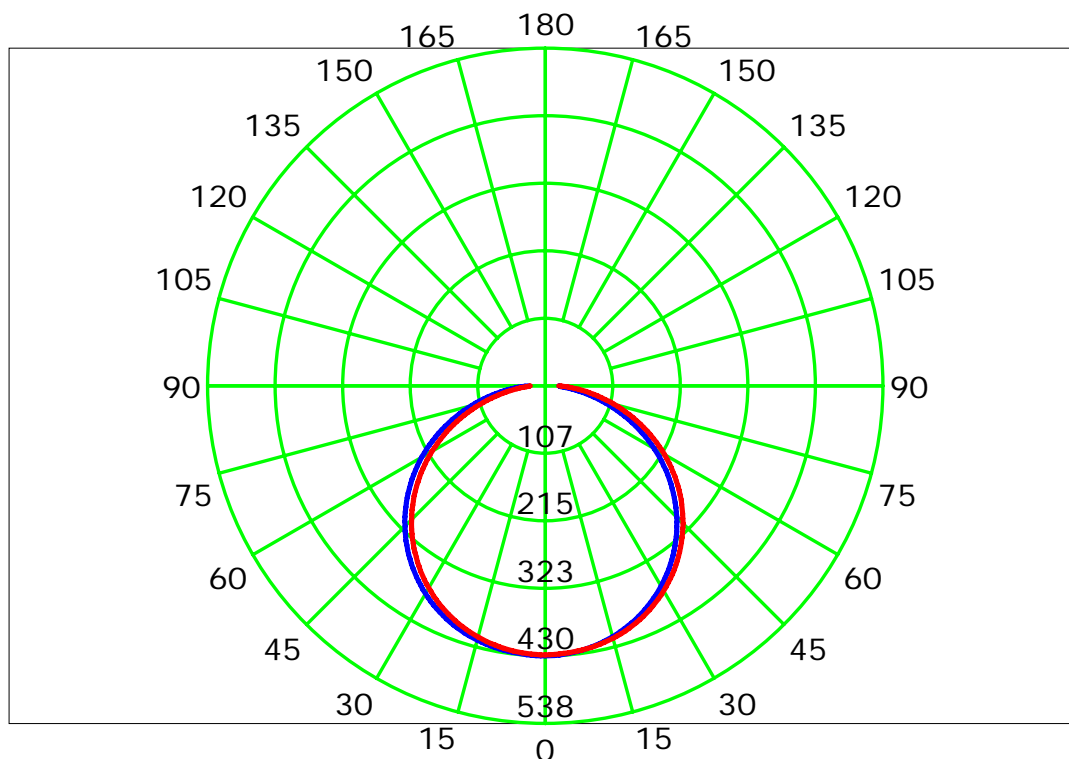
Unit: cd

— 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:

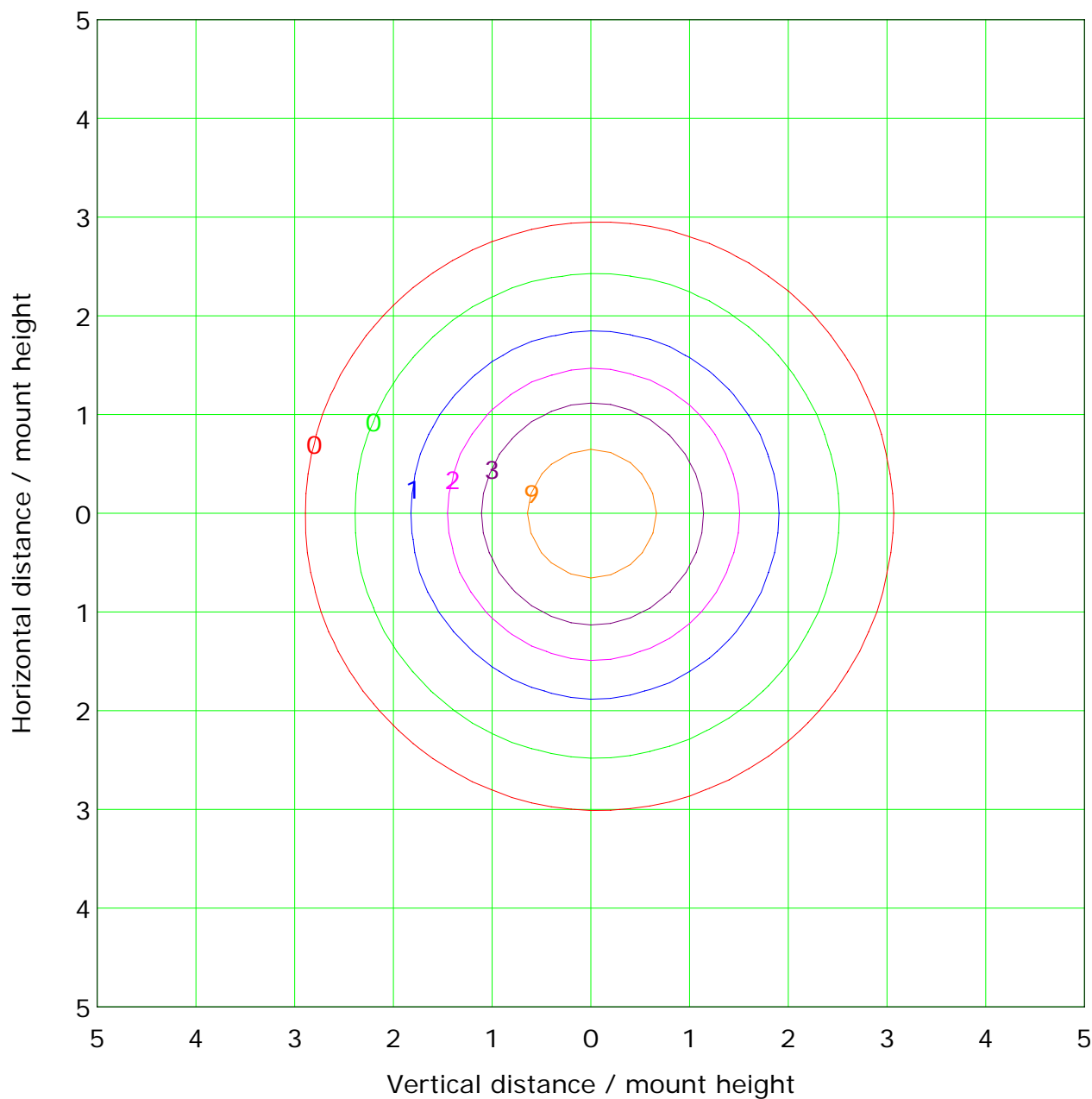
Luminous Intensity Distribution Curve



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IsoLux Plot



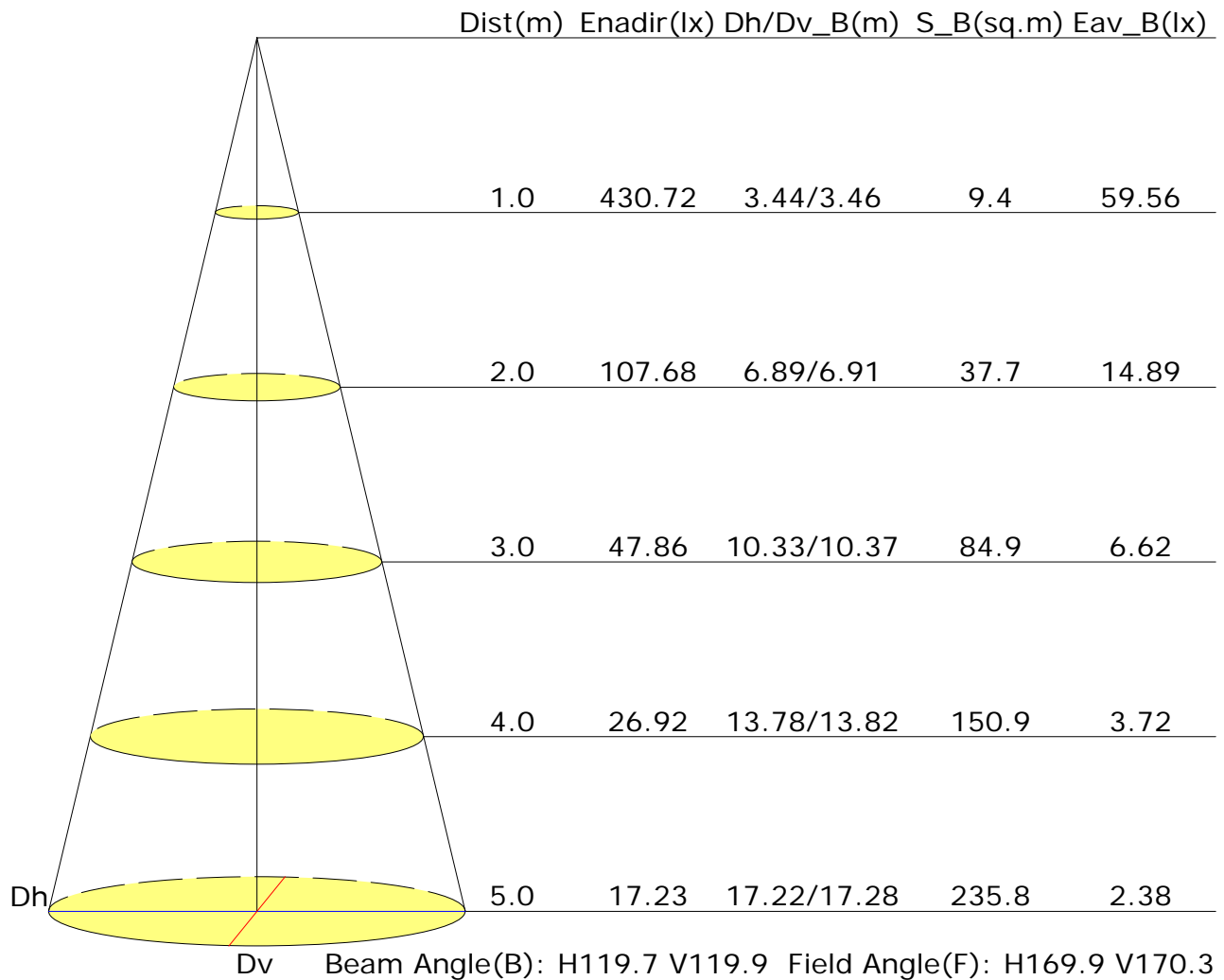
Mounting Height: 5.0m Max Lux(100%): 17.2 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.9 lx	(10%): 1.7 lx
(20%): 3.4 lx	(50%): 8.6 lx
(100%): 17.2 lx	

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Illuminance at a Distance



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 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	20.9	22.3	21.2	22.6	22.8	21.1	22.5	21.4	22.8	23.0
3H	22.7	24.0	23.0	24.3	24.6	23.0	24.4	23.4	24.6	24.9
4H	23.5	24.8	23.9	25.0	25.4	24.0	25.2	24.3	25.5	25.8
6H	24.3	25.4	24.6	25.8	26.1	24.9	26.1	25.3	26.4	26.7
8H	24.7	25.8	25.1	26.2	26.5	25.4	26.6	25.8	26.9	27.2
12H	26.4	27.4	26.7	27.8	28.1	27.6	28.6	27.9	29.0	29.3
X=4H Y=2H	21.7	22.9	22.0	23.2	23.5	21.9	23.1	22.2	23.4	23.7
3H	23.7	24.8	24.1	25.2	25.5	24.0	25.1	24.4	25.5	25.8
4H	24.7	25.7	25.1	26.1	26.5	25.1	26.1	25.6	26.5	26.9
6H	25.7	26.6	26.1	27.0	27.4	26.3	27.2	26.7	27.5	27.9
8H	26.3	27.1	26.7	27.5	27.9	27.0	27.8	27.4	28.2	28.6
12H	28.2	28.9	28.6	29.3	29.8	29.3	30.1	29.8	30.5	30.9
X=8H Y=4H	25.3	26.1	25.7	26.5	26.9	25.6	26.4	26.1	26.8	27.2
6H	26.6	27.2	27.1	27.7	28.1	27.1	27.7	27.6	28.2	28.6
8H	27.5	28.1	28.0	28.6	29.1	28.2	28.8	28.7	29.2	29.7
12H	29.6	30.2	30.1	30.6	31.1	30.7	31.2	31.2	31.7	32.2
X=12H Y=4H	25.4	26.1	25.9	26.6	27.0	25.7	26.4	26.2	26.9	27.3
6H	27.0	27.5	27.4	28.0	28.5	27.4	28.0	27.9	28.4	28.9
8H	28.7	29.2	29.1	29.6	30.1	29.2	29.7	29.7	30.2	30.7
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.3					+0.4/-0.3				
S=1.5H	+0.6/-0.6					+0.6/-0.6				
S=2.0H	+0.7/-0.9					+0.8/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 1358lm ($8\log(F/F_0) = 1.1$).

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	430.7	429.5	429.0	428.5	430.7	429.5	429.0	428.5	430.7	
G1.0	430.5	429.4	428.9	428.5	430.7	429.5	429.0	428.4	430.5	
G2.0	430.2	429.0	428.6	428.4	430.6	429.3	428.6	428.2	430.2	
G3.0	429.8	428.7	428.1	427.9	430.3	429.1	428.3	427.7	429.8	
G4.0	429.1	428.0	427.6	427.4	429.8	428.6	427.8	427.2	429.1	
G5.0	428.5	427.3	427.3	426.7	429.2	428.1	427.3	426.5	428.5	
G6.0	427.4	426.5	426.5	426.2	428.6	427.6	426.5	425.7	427.4	
G7.0	426.5	425.7	425.9	425.5	428.1	426.9	425.8	424.7	426.5	
G8.0	425.4	424.7	425.2	424.9	427.3	426.2	424.8	423.8	425.4	
G9.0	424.2	423.7	424.3	424.1	426.6	425.2	423.7	422.5	424.2	
G10.0	423.0	422.4	423.4	423.5	425.8	424.3	422.5	421.2	423.0	
G11.0	421.4	421.1	422.2	422.6	424.8	423.1	421.1	419.7	421.4	
G12.0	419.9	419.7	421.2	421.6	423.8	421.9	419.8	418.3	419.9	
G13.0	418.2	418.1	419.7	420.6	422.6	420.7	418.2	416.7	418.2	
G14.0	416.1	416.2	418.4	419.2	421.1	419.1	416.5	414.7	416.1	
G15.0	414.3	414.5	416.9	417.8	419.9	417.5	414.7	413.0	414.3	
G16.0	412.4	412.4	415.1	416.1	418.3	416.0	412.7	410.7	412.4	
G17.0	409.8	410.4	413.3	414.6	416.6	413.9	410.7	408.4	409.8	
G18.0	407.5	408.1	411.4	412.9	414.9	412.1	408.6	406.3	407.5	
G19.0	404.9	405.7	409.2	410.9	412.7	409.6	406.1	403.7	404.9	
G20.0	402.3	403.4	407.0	408.9	410.8	407.7	403.8	401.1	402.3	
G21.0	399.9	400.4	404.8	406.5	408.6	405.4	401.2	398.6	399.9	
G22.0	396.6	397.8	402.1	404.5	406.2	402.7	398.4	395.6	396.6	
G23.0	393.9	395.0	399.7	401.9	403.7	400.0	395.6	392.9	393.9	
G24.0	390.5	391.7	396.6	399.3	400.8	397.3	392.6	389.8	390.5	
G25.0	387.3	388.8	394.0	396.8	398.3	394.4	389.6	386.5	387.3	
G26.0	384.0	385.6	390.9	393.9	395.4	391.4	386.6	383.3	384.0	
G27.0	380.1	382.1	387.6	390.8	392.4	388.1	382.8	379.5	380.1	
G28.0	377.0	378.7	384.6	387.8	389.4	384.9	379.5	376.2	377.0	
G29.0	373.0	374.8	381.3	384.5	385.9	381.6	375.6	372.5	373.0	
G30.0	369.0	371.4	377.6	381.1	382.4	377.5	371.9	368.4	369.0	
G31.0	365.1	367.4	374.0	377.9	379.0	374.1	368.3	364.5	365.1	
G32.0	360.7	363.2	369.9	373.9	375.0	370.2	364.1	360.1	360.7	
G33.0	356.6	359.2	366.3	370.4	371.4	366.4	360.0	356.3	356.6	
G34.0	352.3	355.2	362.4	366.5	367.5	362.5	356.0	352.0	352.3	
G35.0	347.7	350.4	358.2	362.5	363.4	358.1	351.3	347.2	347.7	
G36.0	343.1	346.1	353.9	358.2	359.4	353.8	347.2	342.9	343.1	

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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 (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	338.4	341.1	349.6	353.9	355.0	349.6	342.1	338.3	338.4	
G38.0	333.4	336.5	345.1	349.7	350.6	344.8	337.6	333.1	333.4	
G39.0	328.6	332.0	340.5	345.5	346.3	340.3	333.0	328.5	328.6	
G40.0	323.3	326.9	335.5	340.5	341.5	335.3	327.9	323.3	323.3	
G41.0	318.4	321.8	330.9	336.2	336.7	330.8	323.1	318.2	318.4	
G42.0	313.2	316.8	326.0	331.4	332.2	325.8	317.9	313.1	313.2	
G43.0	307.3	311.3	320.8	326.1	326.8	320.6	312.5	307.5	307.3	
G44.0	302.1	305.9	315.6	321.5	322.1	315.5	307.1	302.4	302.1	
G45.0	296.6	300.4	310.8	316.0	316.5	310.5	301.5	297.1	296.6	
G46.0	290.3	294.9	304.9	310.9	311.6	304.8	296.0	291.0	290.3	
G47.0	285.0	289.3	299.6	305.6	306.3	299.3	290.6	285.6	285.0	
G48.0	278.6	283.3	293.9	300.0	300.5	293.5	284.5	279.3	278.6	
G49.0	272.8	277.6	288.1	294.4	294.8	288.0	278.8	273.3	272.8	
G50.0	266.8	271.8	282.9	289.1	289.5	282.5	273.2	267.5	266.8	
G51.0	260.1	265.2	276.5	283.0	283.5	276.0	266.7	261.3	260.1	
G52.0	254.3	259.6	270.9	277.1	277.7	270.4	261.0	255.0	254.3	
G53.0	247.9	252.8	264.8	270.8	271.5	264.7	254.0	249.1	247.9	
G54.0	241.5	246.6	258.3	265.1	265.5	258.0	248.1	242.2	241.5	
G55.0	234.9	240.6	252.3	259.0	259.7	251.7	241.9	236.0	234.9	
G56.0	227.7	233.6	245.6	252.6	253.1	245.3	235.0	229.2	227.7	
G57.0	221.4	227.3	239.6	246.3	246.9	239.3	228.7	222.6	221.4	
G58.0	214.7	220.7	233.2	240.1	240.7	232.8	222.1	216.3	214.7	
G59.0	207.7	213.9	226.1	233.2	234.1	225.9	215.1	208.9	207.7	
G60.0	200.8	207.1	219.7	227.1	227.5	219.3	208.7	202.5	200.8	
G61.0	193.9	200.0	213.1	219.8	220.5	212.9	201.1	195.8	193.9	
G62.0	186.5	192.9	205.7	213.2	214.2	205.9	194.7	188.3	186.5	
G63.0	179.6	186.4	199.3	206.4	207.3	199.1	187.8	181.6	179.6	
G64.0	171.9	178.7	191.6	199.2	200.3	191.9	180.4	174.2	171.9	
G65.0	165.0	171.8	185.0	192.4	193.3	184.9	173.8	167.1	165.0	
G66.0	158.1	164.4	178.3	185.1	186.6	178.4	166.7	160.2	158.1	
G67.0	150.4	157.8	170.8	178.0	179.1	170.6	159.2	152.5	150.4	
G68.0	143.4	150.7	163.9	171.1	172.2	163.9	152.5	145.9	143.4	
G69.0	135.7	142.9	156.3	163.6	164.8	157.1	144.9	138.8	135.7	
G70.0	128.5	136.0	149.1	156.6	158.1	149.4	137.8	131.1	128.5	
G71.0	121.7	129.1	142.3	149.5	150.8	142.7	131.1	124.2	121.7	
G72.0	113.9	121.5	134.7	142.0	143.4	135.2	123.3	116.4	113.9	
G73.0	107.3	114.8	127.9	134.8	136.4	128.2	116.6	109.7	107.3	

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]

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