IES Flood Report
Photometric Filename: HCP-10X0901-4K

Report No.: 001

Test Time: 2020-08-03 13:33

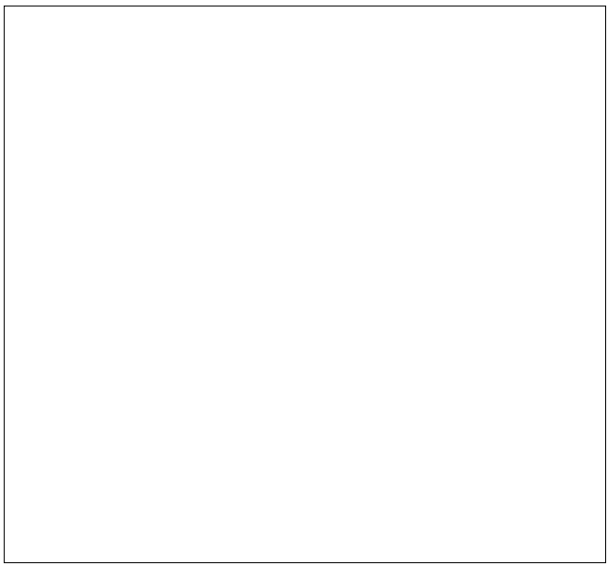
Luminaire Property

Luminaire Manufacturer: Havit Commercial
Luminaire Category: Outdoor lighting
Luminaire Description: HCP-10X0901-4K
Lamp Catalog: COB
Luminous Length (mm): -35
Luminous Width (mm): -35
Luminous Height (mm): 0
Voltage: 240.7 V
Current: 0.065 A
Power: 7.91 W
Power Factor: 0.502

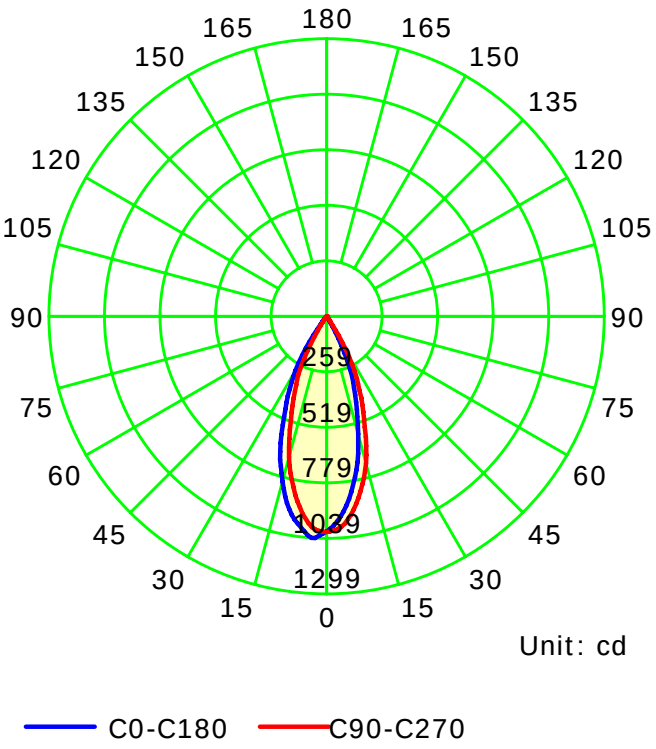
Photometric Results

CIE Class: Direct
Total Rated Lamp Lumens: 473.3 lm
Measurement Flux: 473.3 lm
Efficiency: 100%
Downward Ratio: 100%
Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 63.6, 63.6, 63.5, 63.6
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 39.0, 39.5, 39.5, 39.5
Luminaire Efficacy Rating (LER): 59.89
Central Intensity: 1005.89 cd
Max. Intensity: 1039.59 cd
Pos of Max. Intensity: H180 V4
S/MH(C0/C180): 0.65
S/MH(C90/C270): 0.64

Picture Of Luminaire

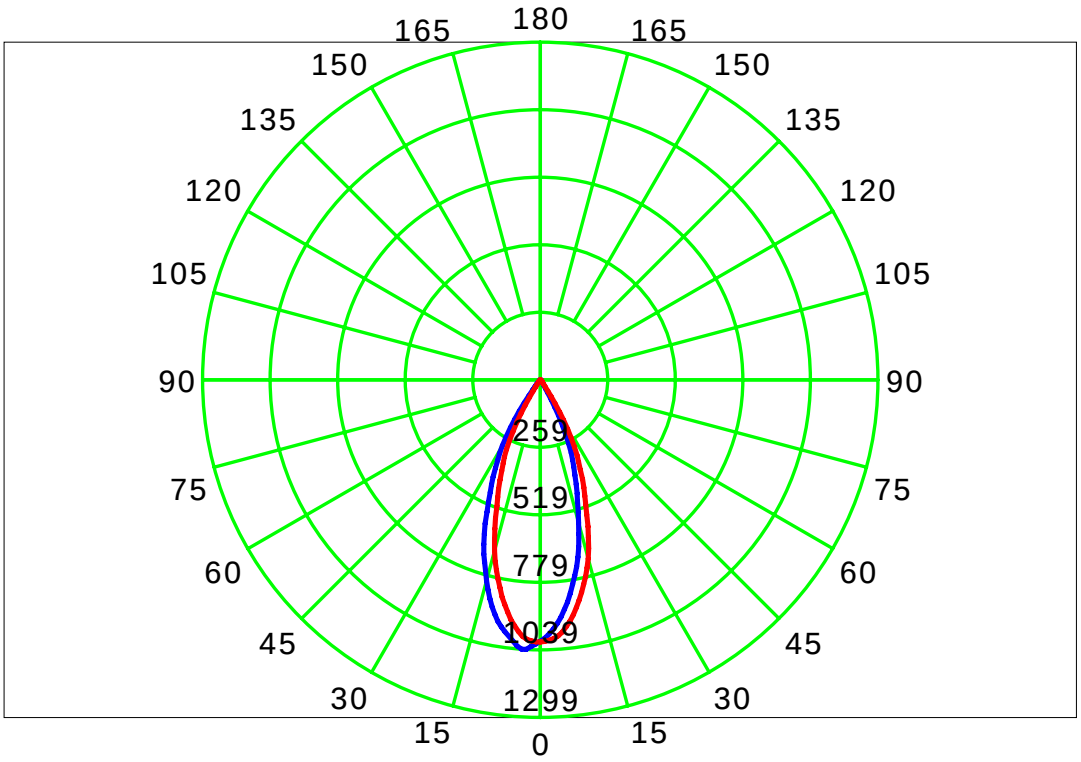


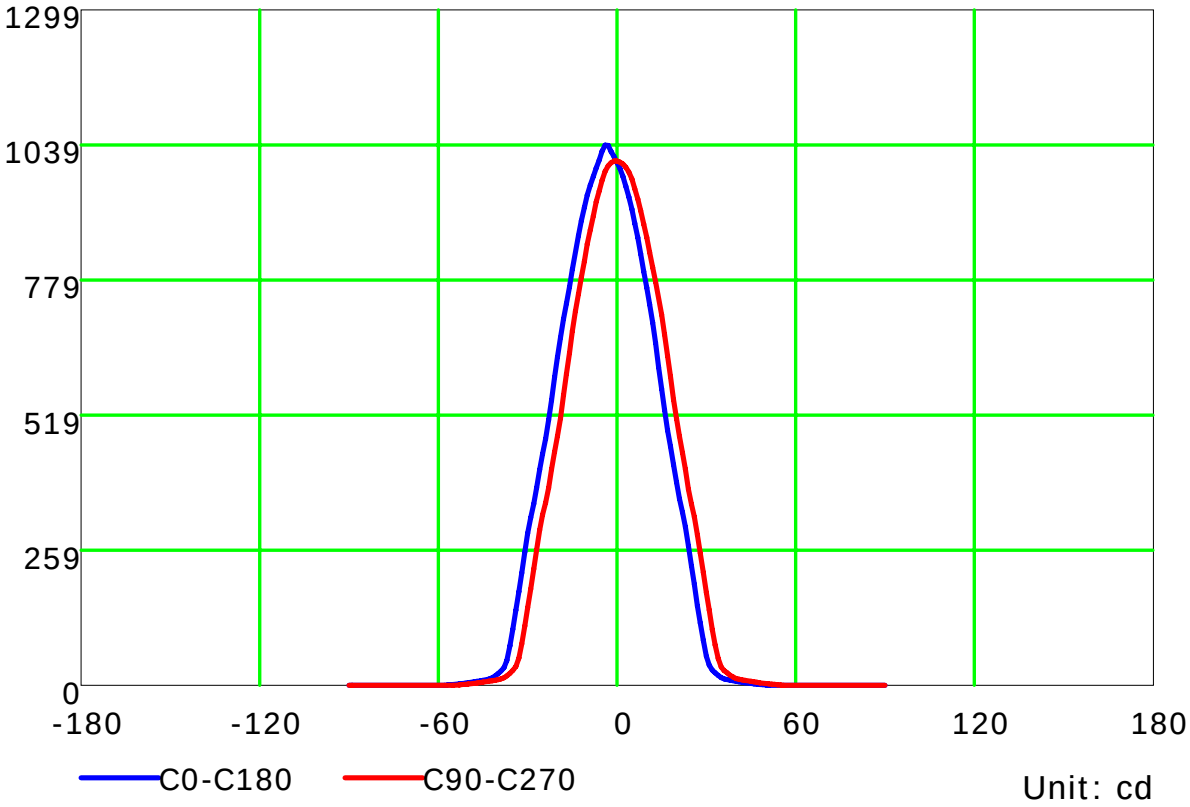
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-90.0:1.0
Test Lab: HAVIT COMMERCIAL
Test Device: GPM-1600L
Test Type: TYPE C
Distance: 6.583 m
Temperature: 25°C
Humidity:
Operator: DING LI
Inspector:

Luminous Intensity Distribution Curve

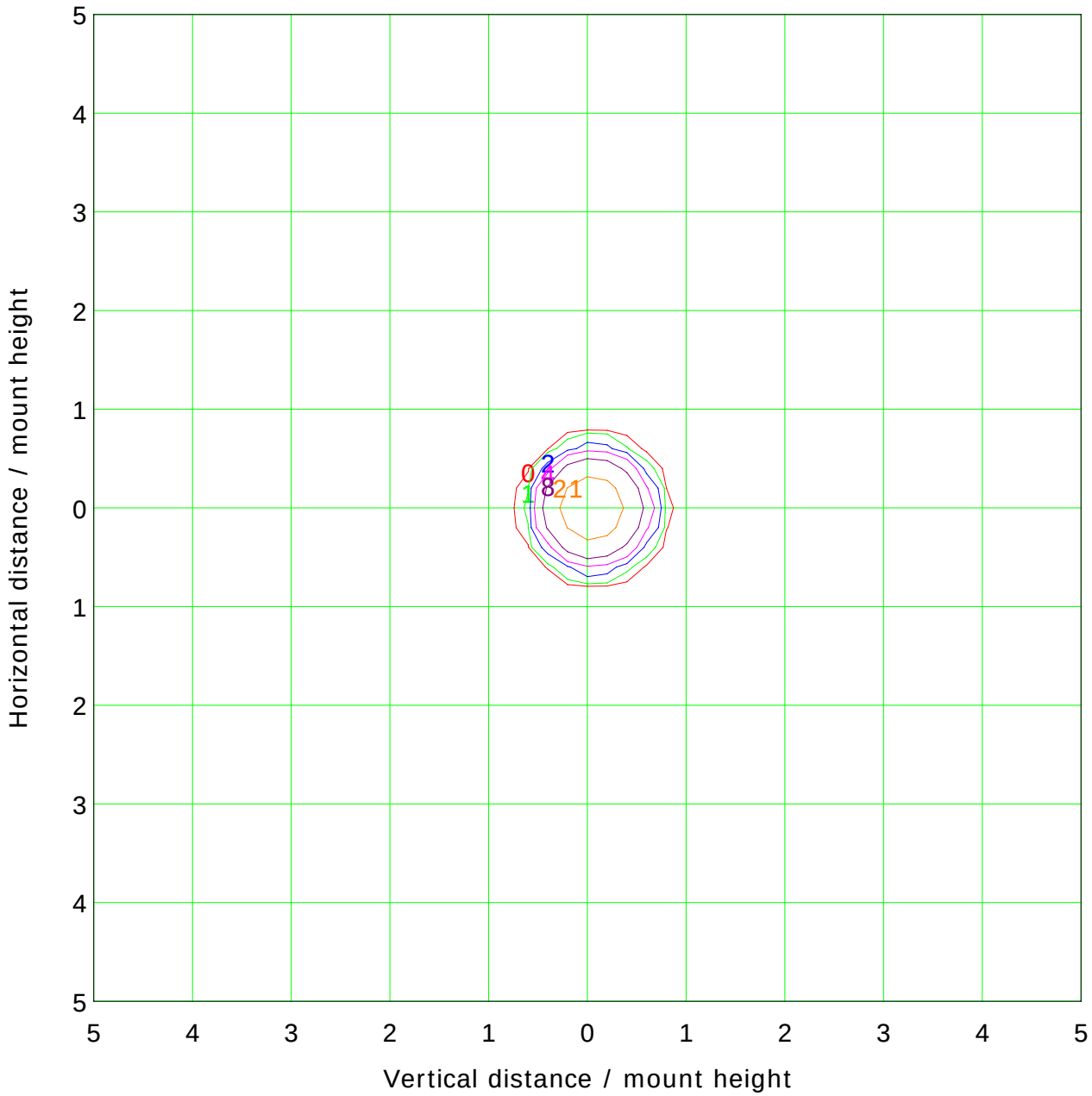




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IsoLux Plot



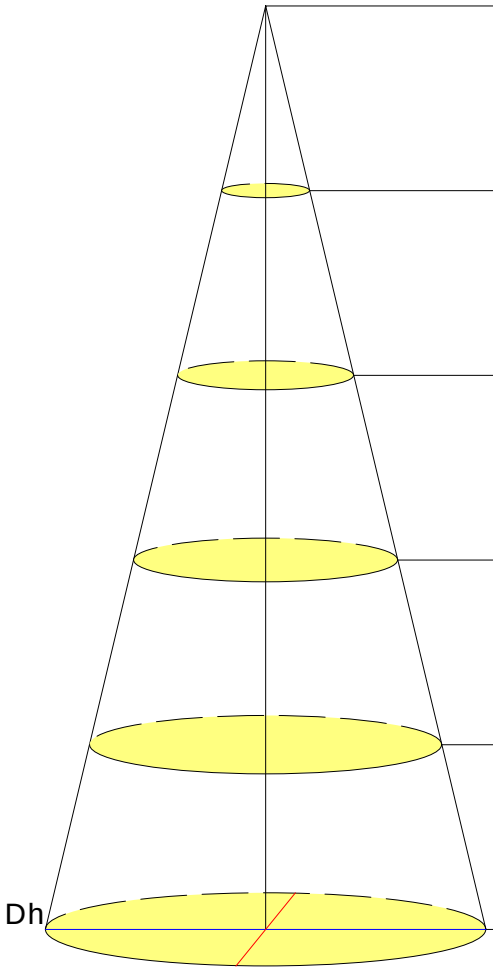
Mounting Height: 5.0m Max Lux(100%): 41.4 lx

(1%): 0.4 lx	(2%): 0.8 lx
(5%): 2.1 lx	(10%): 4.1 lx
(20%): 8.3 lx	(50%): 20.7 lx
(100%): 41.4 lx	

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Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	1005.89	0.71/0.72	0.4	420.75
2.0	251.47	1.42/1.44	1.6	105.19
3.0	111.77	2.13/2.16	3.7	46.75
4.0	62.87	2.83/2.87	6.6	26.30
5.0	40.24	3.54/3.59	10.3	16.83

Beam Angle(B): H39.0 V39.5 Field Angle(F): H63.6 V63.6

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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	7.7	8.4	7.9	8.6	8.8	12.6	13.3	12.8	13.5	13.7
3H	7.6	8.2	7.8	8.4	8.7	12.4	13.1	12.7	13.3	13.5
4H	7.5	8.1	7.8	8.3	8.6	12.3	13.0	12.7	13.2	13.5
6H	7.4	8.0	7.7	8.3	8.5	12.3	12.8	12.6	13.1	13.4
8H	7.4	7.9	7.7	8.2	8.5	12.2	12.8	12.6	13.1	13.4
12H	7.3	7.8	7.7	8.2	8.5	12.2	12.7	12.5	13.0	13.3
X=4H Y=2H	7.5	8.1	7.8	8.3	8.6	12.3	13.0	12.7	13.2	13.5
3H	7.3	7.9	7.7	8.2	8.5	12.2	12.7	12.5	13.0	13.3
4H	7.2	7.7	7.6	8.0	8.4	12.1	12.6	12.5	12.9	13.3
6H	7.2	7.6	7.6	7.9	8.3	12.0	12.4	12.4	12.8	13.2
8H	7.1	7.5	7.5	7.9	8.3	12.0	12.4	12.4	12.7	13.1
12H	7.1	7.4	7.5	7.8	8.2	11.9	12.3	12.4	12.7	13.1
X=8H Y=4H	7.1	7.5	7.5	7.9	8.3	12.0	12.4	12.4	12.7	13.1
6H	7.0	7.3	7.5	7.7	8.2	11.9	12.2	12.3	12.6	13.1
8H	7.0	7.2	7.4	7.7	8.2	11.8	12.1	12.3	12.5	13.0
12H	6.9	7.2	7.4	7.6	8.1	11.8	12.0	12.3	12.5	13.0
X=12H Y=4H	7.1	7.4	7.5	7.8	8.2	11.9	12.3	12.4	12.7	13.1
6H	7.0	7.2	7.4	7.7	8.2	11.8	12.1	12.3	12.5	13.0
8H	6.9	7.2	7.4	7.6	8.1	11.8	12.0	12.3	12.5	13.0
Variations with the observer position at spacings:										
S=1.0H	+5.5/-54.5					+6.4/-33.5				
S=1.5H	+8.2/-1.$					+9.3/-1.$				
S=2.0H	+10.2/-1.$					+11.3/-1.$				

Calculate in accordance with CIE Pub.117. The table is revised with 473lm (8log(F/F0) = -2.6).

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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

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	1005.9	1005.0	1009.0	1014.7	1005.9	1005.0	1009.0	1014.7	1005.9	
G1.0	994.8	997.8	1006.7	1020.3	1016.9	1012.7	1008.8	1006.1	994.8	
G2.0	979.1	986.1	1003.1	1023.1	1027.1	1016.5	1005.6	999.5	979.1	
G3.0	960.2	970.9	997.0	1020.4	1038.8	1013.6	999.8	985.5	960.2	
G4.0	939.8	955.6	987.8	1010.8	1039.6	1007.1	989.3	968.7	939.8	
G5.0	916.3	935.7	974.5	1000.3	1028.1	1000.0	972.1	949.6	916.3	
G6.0	888.8	912.1	955.3	988.5	1010.8	989.2	951.4	923.9	888.8	
G7.0	861.5	889.7	935.8	976.2	995.3	978.0	930.5	898.3	861.5	
G8.0	829.9	859.3	913.1	955.7	978.9	959.7	902.9	871.0	829.9	
G9.0	796.2	830.7	887.5	934.0	962.6	938.1	876.2	837.5	796.2	
G10.0	765.0	801.6	861.7	911.4	943.5	912.5	849.1	805.4	765.0	
G11.0	732.7	768.4	832.8	883.2	919.2	883.5	815.4	772.3	732.7	
G12.0	697.6	739.1	803.8	855.7	893.9	855.5	784.7	742.6	697.6	
G13.0	659.0	703.6	776.5	824.8	865.1	826.2	752.8	708.0	659.0	
G14.0	611.8	664.0	744.8	792.4	832.8	791.3	719.8	665.1	611.8	
G15.0	570.2	623.7	712.9	763.1	800.4	758.2	681.8	623.5	570.2	
G16.0	530.0	580.0	675.0	730.6	766.2	728.6	639.1	580.1	530.0	
G17.0	490.4	539.5	633.7	702.1	734.7	693.3	599.2	535.9	490.4	
G18.0	459.9	504.3	594.4	668.6	705.3	656.8	558.6	499.7	459.9	
G19.0	424.9	468.4	549.7	626.9	669.4	613.5	513.8	463.3	424.9	
G20.0	390.7	438.1	512.8	587.3	631.6	572.0	479.8	433.5	390.7	
G21.0	359.2	400.4	479.4	542.5	593.0	533.5	449.3	398.3	359.2	
G22.0	332.9	366.8	447.5	505.1	548.5	492.8	415.8	363.5	332.9	
G23.0	305.3	341.3	416.3	472.6	511.1	461.8	380.2	339.0	305.3	
G24.0	268.6	310.6	377.3	440.8	474.3	432.3	351.4	311.4	268.6	
G25.0	229.9	278.1	348.7	411.0	445.4	395.0	328.3	278.9	229.9	
G26.0	194.7	243.7	324.4	378.9	415.3	363.3	299.1	243.5	194.7	
G27.0	153.3	203.8	290.0	345.0	380.4	336.7	260.9	203.3	153.3	
G28.0	120.3	163.5	254.5	318.0	349.5	309.8	224.1	163.5	120.3	
G29.0	87.1	124.8	217.6	284.7	322.9	278.8	185.5	123.3	87.1	
G30.0	56.2	93.2	178.8	251.0	292.9	240.8	149.7	89.8	56.2	
G31.0	38.8	65.9	145.2	215.6	256.7	203.2	114.3	62.7	38.8	
G32.0	29.3	44.0	107.6	172.2	216.3	162.2	80.0	41.9	29.3	
G33.0	24.3	31.5	77.7	136.2	180.2	125.2	52.5	30.8	24.3	
G34.0	19.2	26.7	52.0	101.4	144.7	94.5	36.2	25.6	19.2	
G35.0	15.0	21.3	35.1	71.1	107.8	64.2	28.7	19.9	15.0	
G36.0	12.4	17.1	28.5	50.5	76.2	43.1	23.1	15.7	12.4	

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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

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	11.1	13.8	24.3	34.1	48.3	31.5	18.2	12.6	11.1	
G38.0	9.9	11.9	19.6	28.7	34.1	25.3	14.7	11.1	9.9	
G39.0	9.0	10.8	16.1	23.9	27.7	20.2	12.4	10.0	9.0	
G40.0	8.0	9.6	13.1	19.1	22.4	15.5	11.0	8.9	8.0	
G41.0	7.1	8.7	11.9	15.5	17.9	13.1	9.8	8.0	7.1	
G42.0	6.1	7.8	10.8	12.8	14.4	11.6	8.8	7.2	6.1	
G43.0	5.2	6.8	9.7	11.5	12.1	10.5	8.0	6.3	5.2	
G44.0	4.5	6.0	8.7	10.5	10.9	9.4	7.2	5.4	4.5	
G45.0	3.7	5.1	8.0	9.3	9.7	8.5	6.2	4.7	3.7	
G46.0	3.0	4.3	6.8	8.4	8.6	7.7	5.3	3.9	3.0	
G47.0	2.3	3.6	5.9	7.4	7.9	6.8	4.6	3.2	2.3	
G48.0	1.8	2.9	4.9	6.3	6.9	5.9	3.8	2.6	1.8	
G49.0	1.4	2.3	4.2	5.5	6.0	5.2	3.3	2.0	1.4	
G50.0	0.8	1.8	3.5	4.7	5.2	4.4	2.5	1.6	0.8	
G51.0	0.3	1.3	2.8	3.9	4.3	3.6	2.0	0.9	0.3	
G52.0	0.0	0.8	2.2	3.2	3.6	3.0	1.6	0.5	0.0	
G53.0	0.0	0.3	1.9	2.7	3.0	2.4	0.9	0.1	0.0	
G54.0	0.0	0.1	1.2	2.1	2.4	1.8	0.4	0.0	0.0	
G55.0	0.0	0.0	0.7	1.7	1.8	1.3	0.1	0.0	0.0	
G56.0	0.0	0.0	0.2	1.1	1.3	0.8	0.0	0.0	0.0	
G57.0	0.0	0.0	0.0	0.5	0.8	0.3	0.0	0.0	0.0	
G58.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	
G59.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G61.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G62.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G64.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G67.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G68.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G69.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

C Plane (°):0.0-360.0: 45.0
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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 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G75.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G76.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G77.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G83.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G84.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G85.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G87.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G90.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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