Report No.: 1 Test Time: 2019/3/28 16:22

Luminaire Property

Luminaire Manufacturer: Havit Commercial
Luminaire Description: HCP-8921204 + HCP-8931204 (4000K) Voltage: 220 V
Current: 0.058 A Power: 11.59 W
Power Factor: 0.901

Photometric Results

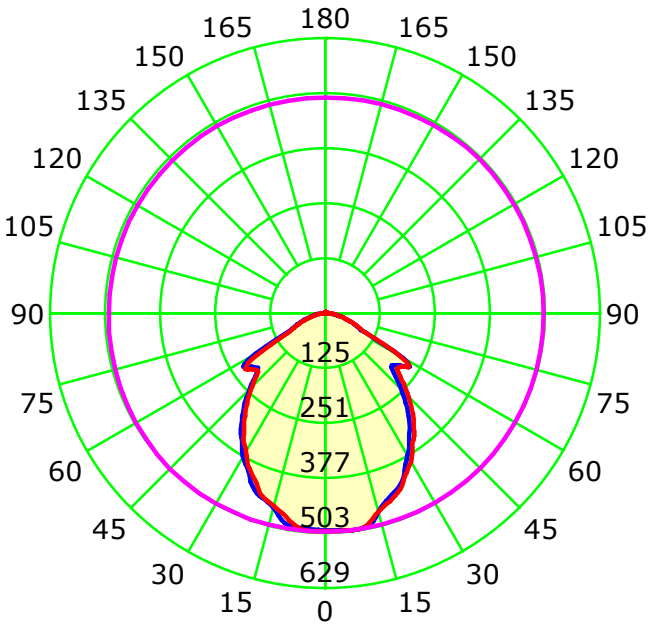
CIE Class: Direct
Measurement Flux: 1127.7 lm
Downward Ratio: 99%
Horizontal Diffuse Angle(50%): H89.4
Vertical Diffuse Angle(50%): V90.8
Luminaire Efficacy Rating (LER): 97.35
Max. Intensity: 503.39 cd
S/MH(C0/C180): 1.14

Total Rated Lamp Lumens: 1127.7 lm
Efficiency: 100%
Upward Ratio: 1%

Central Intensity: 496.46 cd
Pos of Max. Intensity: H315 V7
S/MH(C90/C270): 1.14

Picture Of Luminaire

Luminous Intensity Distribution Curve

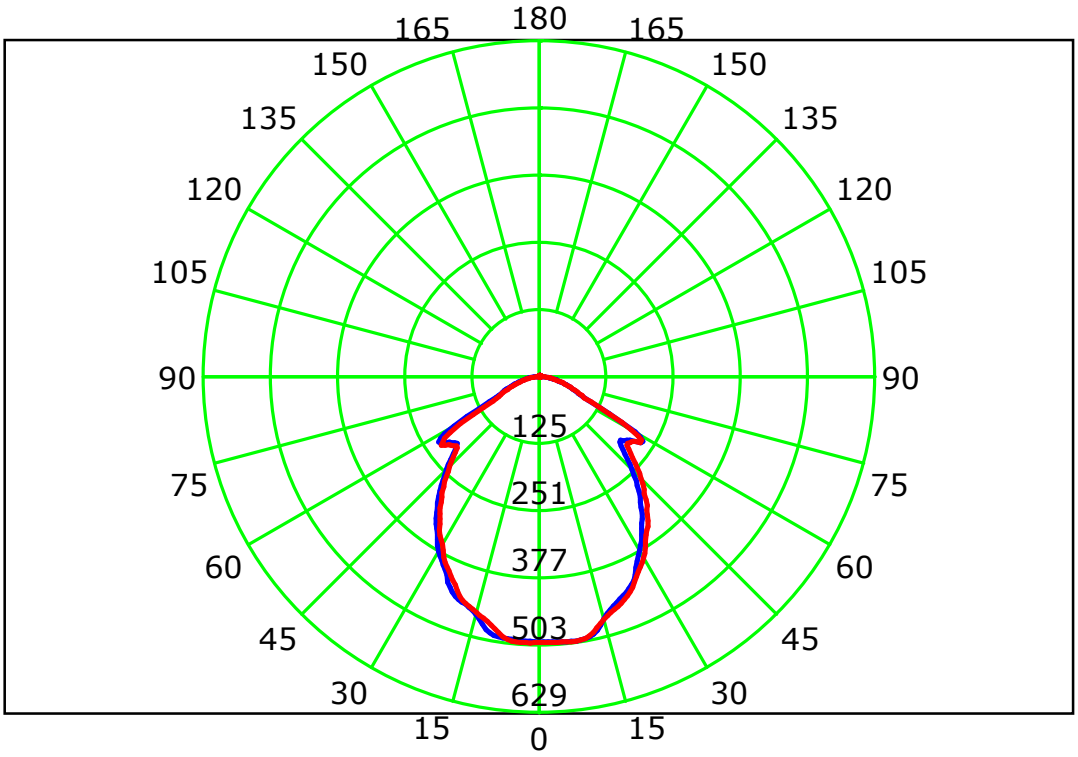


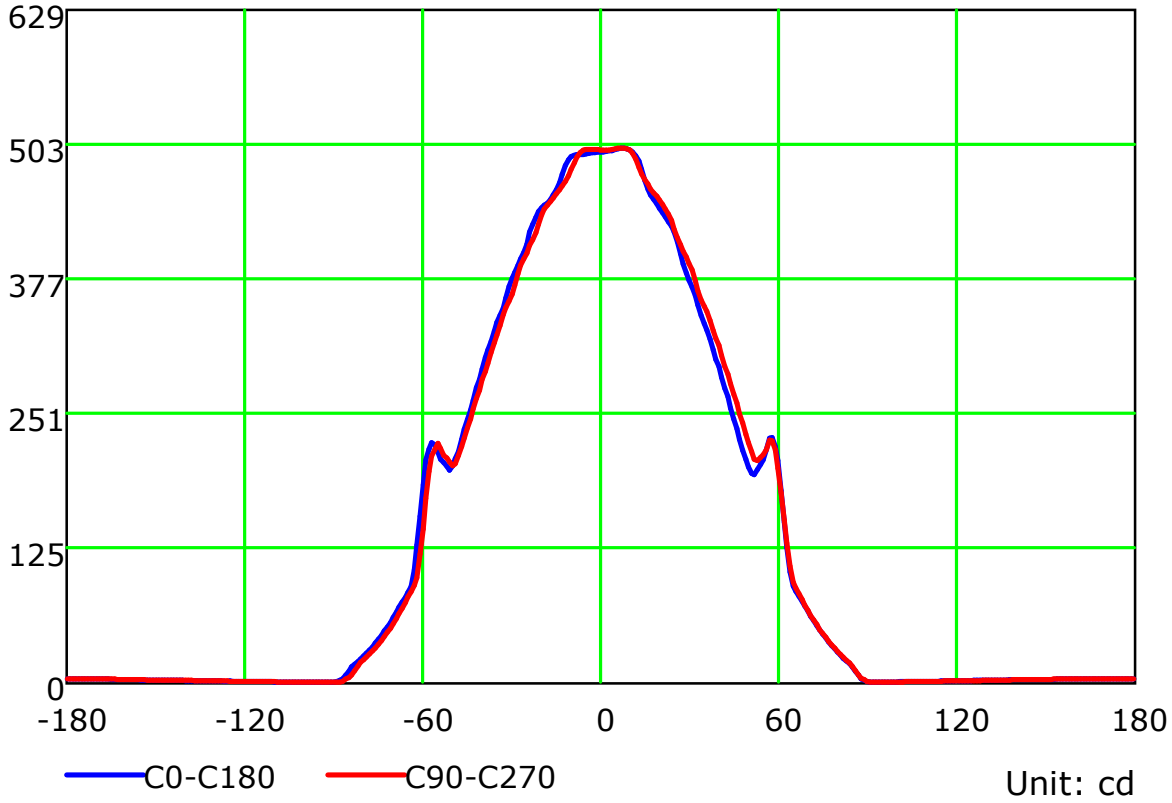
Unit: cd
Average Diffuse Angle(50%): 90.0°
C0-C180 C90-C270 G7

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Luminous Intensity Distribution Curve





C Plane (°):0.0-360.0: 45.0
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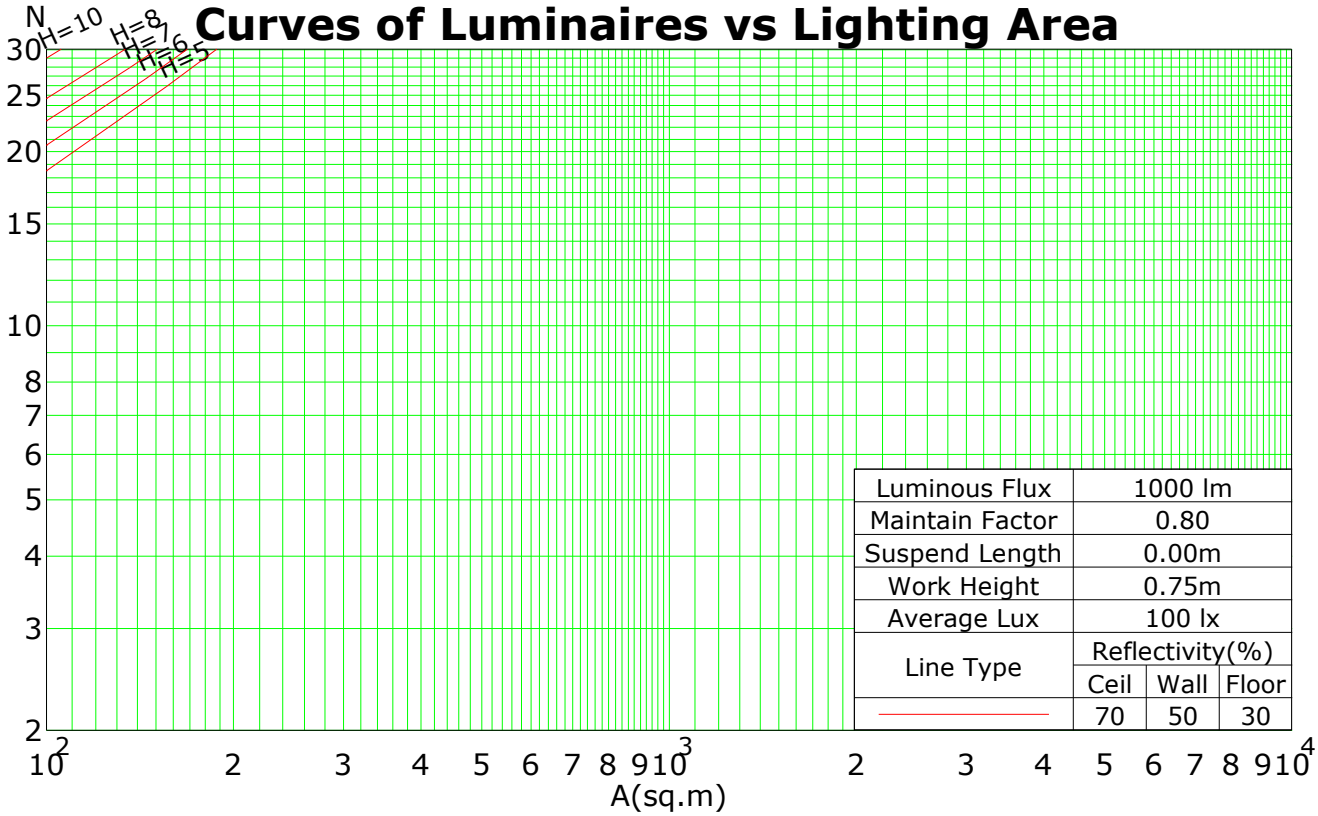
Distance: 7.970 m
Humidity: 55
Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	110	105	102	98	107	103	100	97	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	65	60	56	54
5	79	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	46	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

Spacing Criteria (0-180): 1.14
Spacing Criteria (90-270): 1.14
Spacing Criteria (Diagonal): 1.23

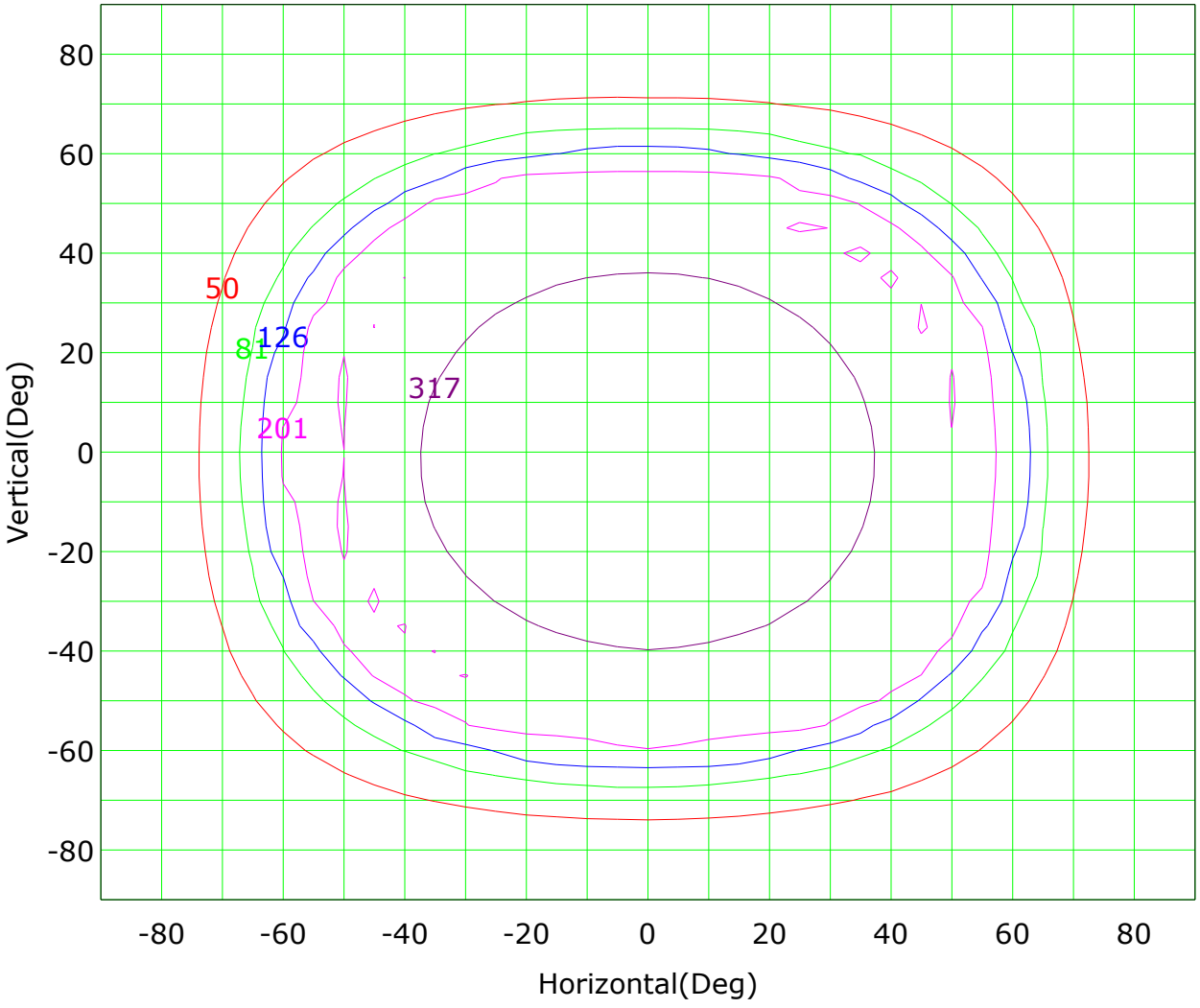
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Isocandela (rectangle)



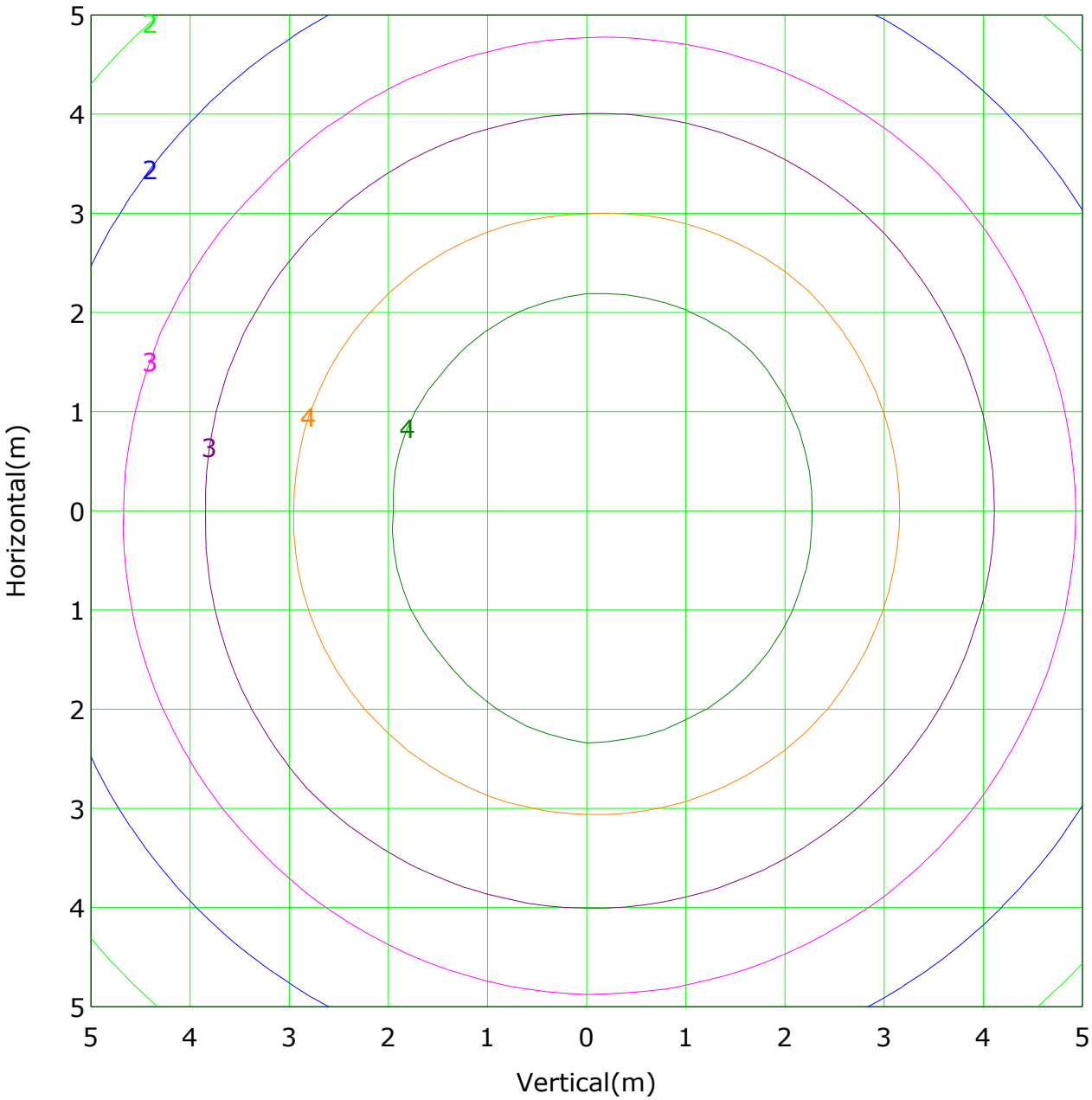
Imax (100%): 503 cd

(10%): 50 cd	(16%): 81 cd
(25%): 126 cd	(40%): 201 cd
(63%): 317 cd	(100%): 503 cd

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 5.0 lx

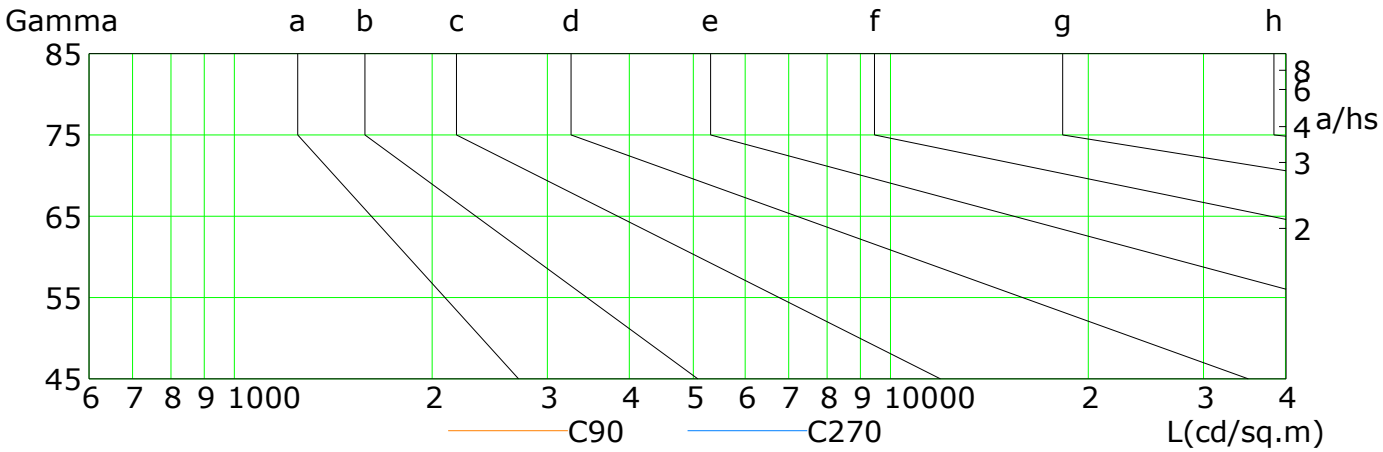
(30%): 1.5 lx	(40%): 2.0 lx
(50%): 2.5 lx	(60%): 3.0 lx
(70%): 3.5 lx	(80%): 4.0 lx
(90%): 4.5 lx	(100%): 5.0 lx
(120%): 6.0 lx	(150%): 7.5 lx

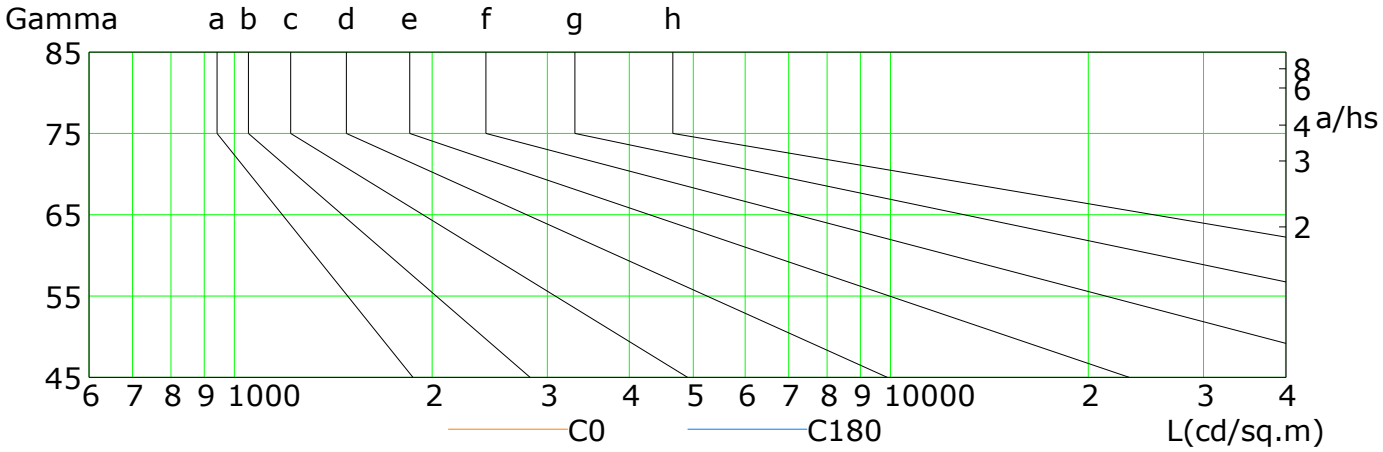
C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



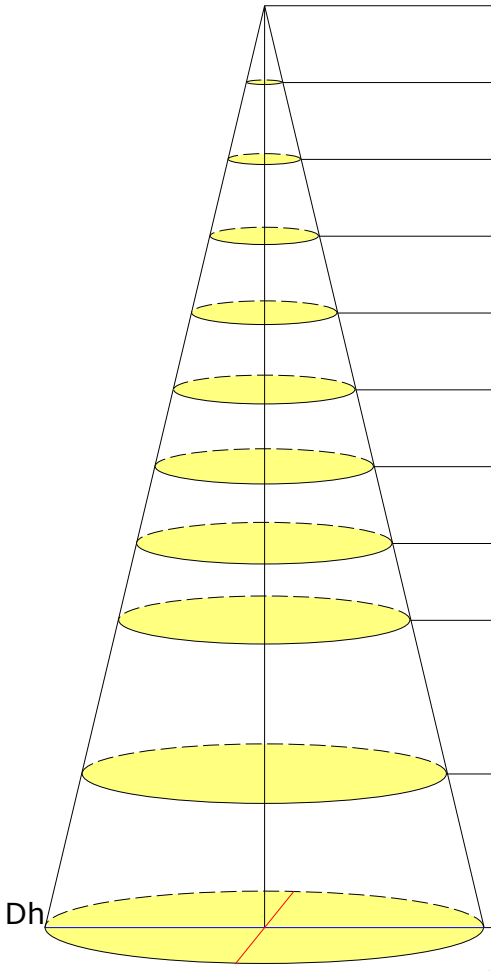


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	247	201	209	208	90	67	45	28	14
C90	270	224	213	200	94	67	46	29	15
C180	246	203	215	185	84	61	40	25	11
C270	238	203	224	144	80	55	36	21	4

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Illuminance at a Distance



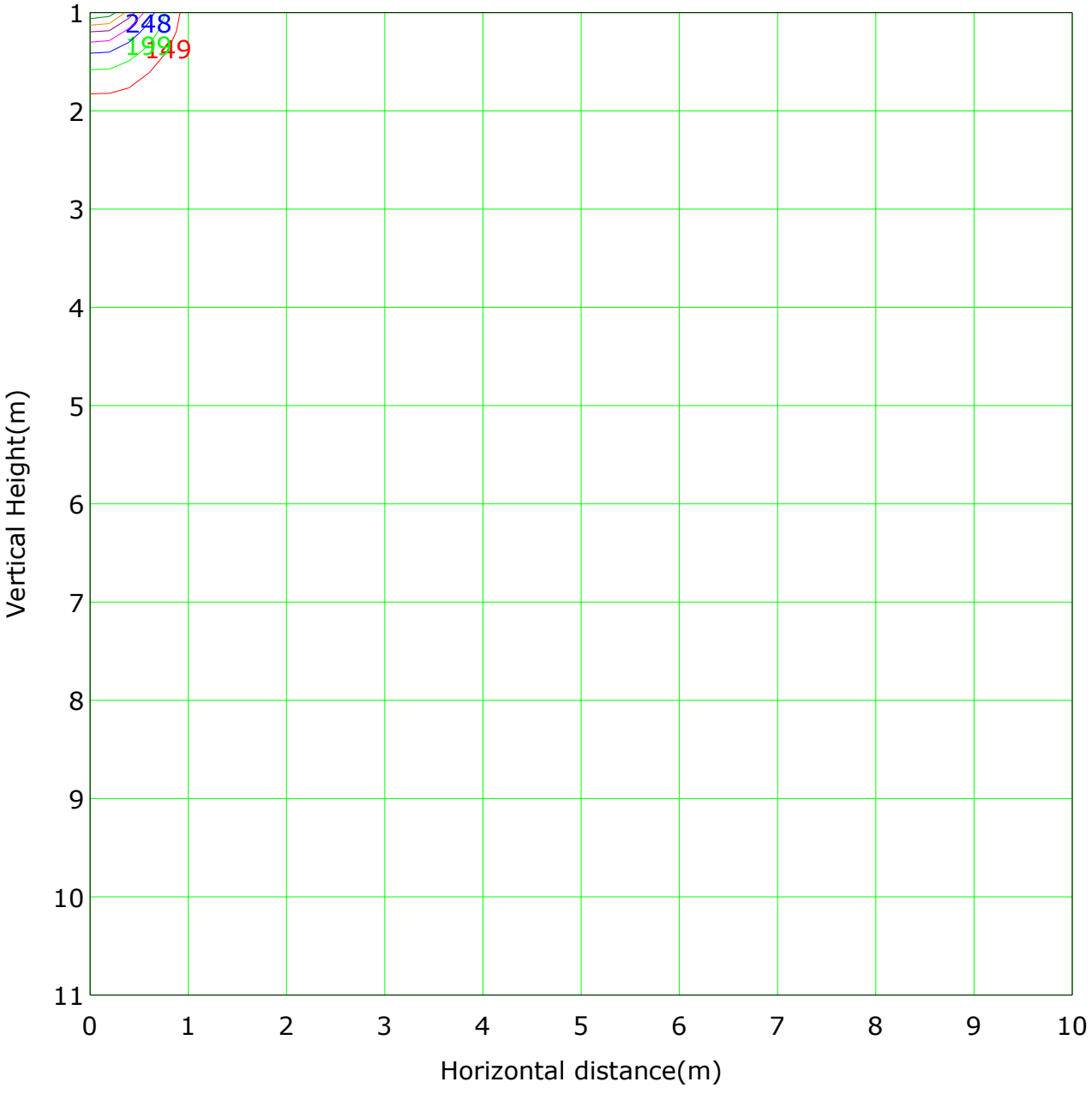
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	496.46	1.97/2.03	3.2	125.10
2.0	124.11	3.94/4.05	12.7	31.27
3.0	55.16	5.92/6.08	28.5	13.90
4.0	31.03	7.89/8.11	50.6	7.82
5.0	19.86	9.86/10.14	79.1	5.00
6.0	13.79	11.83/12.16	113.9	3.47
7.0	10.13	13.81/14.19	155.0	2.55
8.0	7.76	15.78/16.22	202.5	1.95
10.0	4.96	19.72/20.27	316.4	1.25
12.0	3.45	23.67/24.33	455.6	0.87

Beam Angle(B): H89.2 V90.8 Field Angle(F): H146.3 V145.1

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Vertical IsoLux Plot



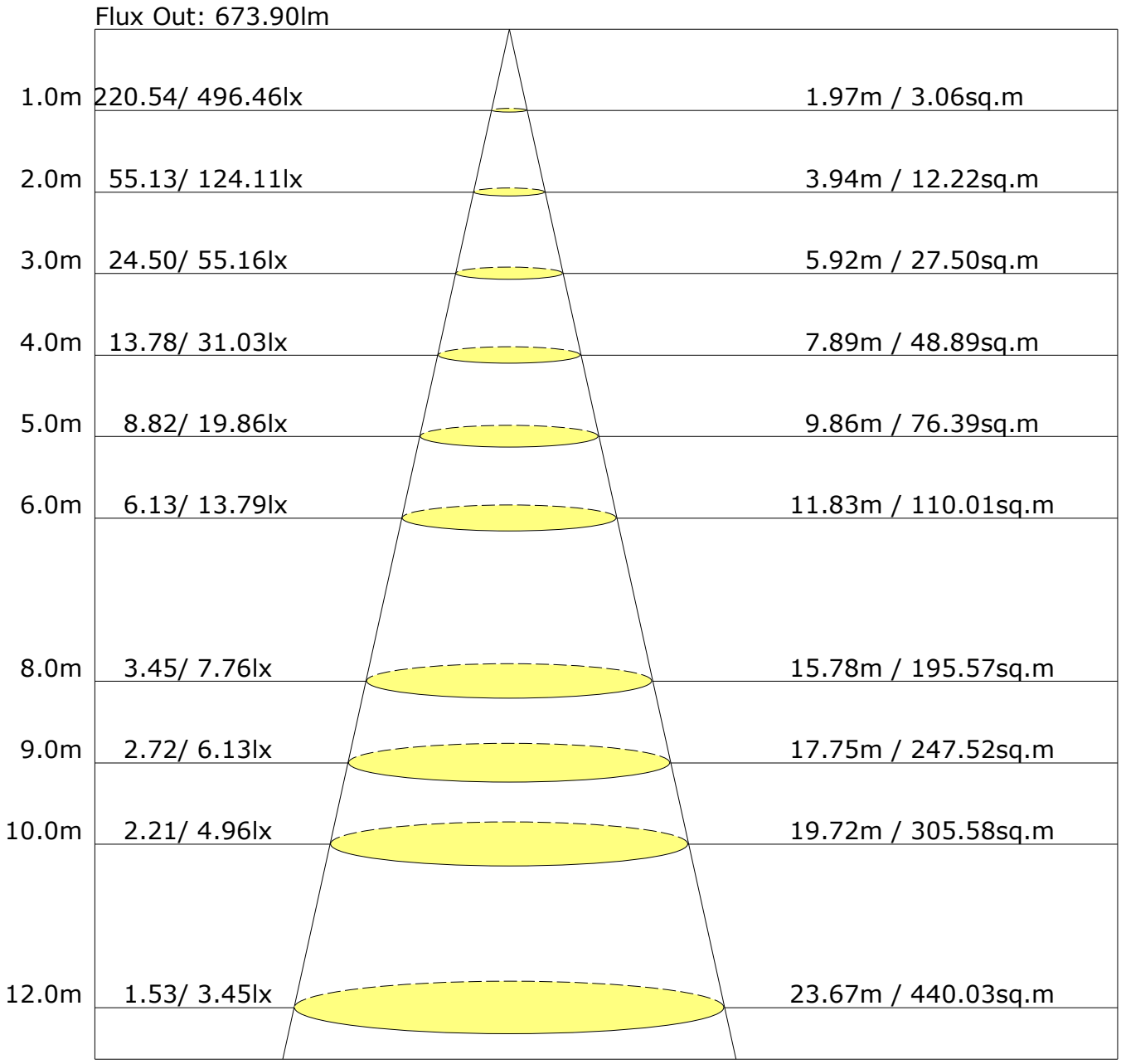
Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 496.5 lx

(30%): 148.9 lx	(40%): 198.6 lx
(50%): 248.2 lx	(60%): 297.9 lx
(70%): 347.5 lx	(80%): 397.2 lx
(90%): 446.8 lx	(100%): 496.5 lx
(120%): 595.8 lx	(150%): 744.7 lx

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
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	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
3H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=4H Y=2H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
3H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=8H Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
12H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
X=12H Y=4H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
6H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
8H	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$	-1.$
Variations with the observer position at spacings:										
S=1.0H	-1.$/-1.$					-1.$/-1.$				
S=1.5H	-1.$/-1.$					-1.$/-1.$				
S=2.0H	-1.$/-1.$					-1.$/-1.$				

Calculate in accordance with CIE Pub.117. The table is revised with 1128lm (8log(F/F0) = 0.4).

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
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	496.5	497.8	498.5	498.4	496.5	497.8	498.5	498.4	496.5	
G1.0	496.6	497.8	498.3	498.2	496.3	497.9	498.6	498.7	496.6	
G2.0	496.9	498.1	498.3	498.1	496.2	497.8	498.9	499.2	496.9	
G3.0	497.4	498.6	498.4	498.1	495.9	497.4	499.0	499.6	497.4	
G4.0	498.0	499.2	498.8	498.2	495.4	496.8	499.2	500.3	498.0	
G5.0	498.6	500.1	499.3	498.9	494.8	496.4	499.1	501.1	498.6	
G6.0	499.4	500.9	499.9	498.8	494.4	496.1	498.2	501.8	499.4	
G7.0	499.9	501.3	500.2	499.1	494.2	495.9	495.8	503.4	499.9	
G8.0	500.0	501.4	500.2	499.0	494.0	495.7	491.5	502.2	500.0	
G9.0	499.5	500.5	499.7	498.7	493.7	493.7	486.2	498.4	499.5	
G10.0	498.5	499.3	498.1	497.0	492.2	488.2	480.6	490.0	498.5	
G11.0	496.5	497.0	495.4	495.1	489.1	479.0	474.4	482.4	496.5	
G12.0	493.1	492.8	490.0	491.7	484.1	471.9	469.1	475.5	493.1	
G13.0	488.2	486.8	482.4	485.4	475.5	467.0	464.7	469.4	488.2	
G14.0	480.0	479.2	476.2	478.2	467.5	462.7	461.1	465.3	480.0	
G15.0	470.2	472.3	471.0	471.6	461.3	457.9	457.3	460.9	470.2	
G16.0	462.0	465.9	466.3	466.4	456.3	453.9	453.6	457.4	462.0	
G17.0	456.2	461.4	461.9	461.5	452.0	450.7	450.2	452.6	456.2	
G18.0	452.0	457.2	458.3	457.5	448.5	447.0	446.5	449.0	452.0	
G19.0	447.9	453.1	455.1	453.9	446.7	443.5	442.9	444.6	447.9	
G20.0	443.5	449.0	451.6	449.5	444.1	439.4	437.7	441.2	443.5	
G21.0	439.5	443.8	447.3	445.8	440.7	435.4	428.8	438.0	439.5	
G22.0	435.7	439.1	443.2	442.0	435.1	428.6	420.8	433.2	435.7	
G23.0	431.3	434.1	438.2	437.4	428.9	417.1	414.3	424.8	431.3	
G24.0	427.0	429.9	432.4	431.4	421.8	407.7	409.1	417.2	427.0	
G25.0	421.3	424.2	423.9	423.4	410.4	399.1	401.9	409.0	421.3	
G26.0	412.5	415.7	416.5	414.9	402.6	392.7	396.4	401.1	412.5	
G27.0	401.0	406.6	409.5	406.0	396.4	387.8	390.7	392.8	401.0	
G28.0	391.5	398.8	403.8	399.5	390.2	382.9	382.8	386.0	391.5	
G29.0	383.3	391.8	398.3	393.2	384.0	377.4	371.9	378.8	383.3	
G30.0	376.4	384.9	392.4	387.9	378.2	367.8	363.6	369.1	376.4	
G31.0	369.8	378.4	386.1	382.3	370.5	359.8	357.1	360.0	369.8	
G32.0	362.5	370.6	376.0	373.8	359.6	352.5	351.2	352.4	362.5	
G33.0	353.1	360.8	366.6	363.9	350.4	345.8	344.1	346.4	353.1	
G34.0	343.5	351.5	358.1	354.6	343.5	338.5	333.8	339.5	343.5	
G35.0	335.9	344.6	352.3	348.0	337.1	327.0	325.0	331.5	335.9	
G36.0	329.8	338.6	347.0	342.3	328.8	317.3	317.7	321.4	329.8	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
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	321.7	330.8	339.0	335.5	318.9	310.1	309.1	312.8	321.7	
G38.0	311.4	320.5	329.2	325.2	311.1	303.1	298.8	306.1	311.4	
G39.0	302.5	311.7	321.9	318.6	303.8	290.7	291.0	296.2	302.5	
G40.0	295.5	304.7	315.4	312.2	293.3	282.0	283.7	286.0	295.5	
G41.0	285.6	294.5	305.8	302.8	283.5	274.0	273.6	279.5	285.6	
G42.0	275.1	284.5	295.5	291.2	275.7	262.6	265.5	269.8	275.1	
G43.0	267.9	277.1	288.7	284.2	264.0	254.8	256.4	261.3	267.9	
G44.0	256.6	267.4	279.6	274.7	254.8	245.4	246.7	252.8	256.6	
G45.0	246.7	256.6	269.7	265.5	245.9	235.7	237.9	241.6	246.7	
G46.0	237.3	248.0	261.8	257.4	236.7	226.6	228.7	233.3	237.3	
G47.0	227.3	237.1	251.3	246.9	227.5	216.6	221.1	223.2	227.3	
G48.0	217.5	228.1	242.7	237.7	216.3	209.4	212.3	217.1	217.5	
G49.0	209.0	217.6	232.4	227.1	209.2	201.3	204.4	207.0	209.0	
G50.0	201.4	210.4	224.3	220.0	202.8	194.4	202.8	201.8	201.4	
G51.0	195.4	201.7	216.0	212.4	198.6	194.9	206.2	202.3	195.4	
G52.0	194.2	198.4	208.8	208.2	202.1	199.4	210.1	206.4	194.2	
G53.0	199.2	201.4	207.8	210.7	205.6	204.2	212.6	209.4	199.2	
G54.0	203.8	205.0	210.4	212.3	208.8	212.9	219.2	213.4	203.8	
G55.0	208.5	206.3	212.7	213.9	215.3	225.6	224.1	223.5	208.5	
G56.0	217.9	211.6	218.1	219.4	222.8	228.6	217.6	232.1	217.9	
G57.0	228.4	222.1	227.1	224.2	224.5	217.5	211.7	228.9	228.4	
G58.0	229.4	219.4	226.1	220.9	218.2	206.0	197.6	223.1	229.4	
G59.0	221.1	210.9	217.9	218.3	208.1	179.3	172.1	199.5	221.1	
G60.0	207.7	205.0	200.5	204.9	185.0	155.8	143.7	165.6	207.7	
G61.0	179.3	184.8	177.9	176.3	155.3	131.6	119.9	139.1	179.3	
G62.0	150.2	162.2	152.0	142.0	128.3	114.3	98.1	118.2	150.2	
G63.0	126.3	130.3	130.4	121.5	105.0	93.2	90.6	97.4	126.3	
G64.0	103.1	106.7	109.1	99.9	89.5	87.1	85.1	89.7	103.1	
G65.0	90.1	94.1	93.8	90.0	84.3	82.0	80.1	84.3	90.1	
G66.0	85.2	88.3	88.3	84.4	79.7	77.6	74.9	79.8	85.2	
G67.0	80.6	83.5	83.3	79.8	75.3	72.6	69.2	75.3	80.6	
G68.0	75.8	79.0	77.7	74.9	70.3	67.6	64.2	69.8	75.8	
G69.0	71.6	73.5	72.5	69.4	65.5	62.3	59.6	64.8	71.6	
G70.0	67.0	68.5	67.1	64.8	60.9	57.8	54.8	60.1	67.0	
G71.0	62.0	63.6	62.6	60.5	56.0	53.5	50.6	55.3	62.0	
G72.0	57.6	58.6	58.2	55.9	51.8	49.0	46.8	51.1	57.6	
G73.0	53.3	54.3	54.0	51.9	48.0	45.2	42.7	47.1	53.3	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
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	49.3	50.2	49.7	48.0	43.8	41.5	39.2	43.3	49.3	
G75.0	45.0	46.2	46.0	44.4	40.3	38.1	35.8	39.3	45.0	
G76.0	41.4	42.1	42.3	40.5	37.0	34.5	32.3	35.9	41.4	
G77.0	37.9	38.6	38.5	37.1	33.5	31.4	29.4	32.6	37.9	
G78.0	34.6	35.3	35.3	33.8	30.4	28.4	26.6	29.2	34.6	
G79.0	31.2	31.9	32.3	30.5	27.4	25.3	23.8	26.4	31.2	
G80.0	28.2	28.9	29.1	27.5	24.6	22.7	21.3	23.7	28.2	
G81.0	25.4	26.1	26.3	25.0	21.8	20.2	18.6	21.2	25.4	
G82.0	22.6	23.4	23.8	22.2	19.4	17.7	15.6	18.5	22.6	
G83.0	20.1	20.9	21.0	19.6	16.9	14.7	11.3	15.4	20.1	
G84.0	17.5	18.2	18.2	16.9	14.5	11.1	7.0	11.7	17.5	
G85.0	14.4	14.9	15.1	14.0	10.8	6.9	4.3	7.3	14.4	
G86.0	10.6	10.9	11.0	10.1	6.9	3.9	3.1	4.2	10.6	
G87.0	6.7	6.5	6.8	6.1	3.3	2.6	1.2	2.9	6.7	
G88.0	3.2	3.6	4.1	3.5	2.2	1.4	0.3	1.5	3.2	
G89.0	2.2	2.6	2.9	2.3	1.1	0.3	0.1	0.3	2.2	
G90.0	1.0	1.1	1.0	1.1	0.1	0.2	0.1	0.1	1.0	
G91.0	0.3	0.3	0.3	0.4	0.1	0.2	0.1	0.2	0.3	
G92.0	0.3	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.3	
G93.0	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.3	
G94.0	0.4	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.4	
G95.0	0.4	0.3	0.3	0.4	0.2	0.2	0.2	0.3	0.4	
G96.0	0.4	0.3	0.3	0.4	0.2	0.3	0.2	0.2	0.4	
G97.0	0.4	0.4	0.4	0.4	0.2	0.3	0.3	0.3	0.4	
G98.0	0.5	0.4	0.4	0.5	0.3	0.3	0.3	0.3	0.5	
G99.0	0.6	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.6	
G100.0	0.6	0.6	0.5	0.6	0.3	0.3	0.3	0.3	0.6	
G101.0	0.6	0.6	0.5	0.6	0.3	0.4	0.3	0.4	0.6	
G102.0	0.7	0.6	0.6	0.7	0.3	0.4	0.4	0.4	0.7	
G103.0	0.7	0.7	0.6	0.7	0.4	0.4	0.4	0.4	0.7	
G104.0	0.8	0.7	0.7	0.8	0.4	0.4	0.4	0.4	0.8	
G105.0	0.8	0.8	0.8	0.8	0.4	0.5	0.5	0.4	0.8	
G106.0	0.9	0.8	0.8	0.9	0.4	0.5	0.5	0.5	0.9	
G107.0	0.9	0.8	0.8	0.9	0.5	0.5	0.5	0.5	0.9	
G108.0	1.0	0.9	0.9	1.0	0.5	0.6	0.6	0.5	1.0	
G109.0	1.0	0.9	1.0	0.9	0.5	0.5	0.6	0.6	1.0	
G110.0	1.0	1.0	1.0	1.0	0.6	0.6	0.6	0.6	1.0	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	1.1	1.0	1.0	1.1	0.6	0.7	0.6	0.6	1.1	
G112.0	1.1	1.1	1.0	1.1	0.6	0.7	0.6	0.7	1.1	
G113.0	1.1	1.1	1.1	1.2	0.7	0.7	0.7	0.7	1.1	
G114.0	1.2	1.2	1.2	1.2	0.7	0.8	0.8	0.8	1.2	
G115.0	1.2	1.2	1.2	1.3	0.8	0.8	0.8	0.8	1.2	
G116.0	1.2	1.2	1.2	1.3	0.8	0.8	0.8	0.8	1.2	
G117.0	1.3	1.3	1.3	1.3	0.8	0.9	0.9	0.9	1.3	
G118.0	1.4	1.3	1.3	1.4	0.9	0.9	0.9	0.9	1.4	
G119.0	1.4	1.4	1.4	1.4	0.9	0.9	1.0	0.9	1.4	
G120.0	1.5	1.4	1.4	1.5	0.9	0.9	1.0	1.0	1.5	
G121.0	1.5	1.4	1.5	1.5	0.9	1.0	1.0	1.0	1.5	
G122.0	1.6	1.5	1.5	1.5	1.0	1.1	1.1	1.1	1.6	
G123.0	1.6	1.5	1.6	1.6	1.0	1.1	1.1	1.1	1.6	
G124.0	1.6	1.6	1.6	1.7	1.1	1.1	1.2	1.1	1.6	
G125.0	1.7	1.7	1.6	1.8	1.2	1.1	1.2	1.2	1.7	
G126.0	1.8	1.7	1.7	1.8	1.1	1.2	1.2	1.2	1.8	
G127.0	1.9	1.8	1.7	1.8	1.1	1.2	1.3	1.3	1.9	
G128.0	1.9	1.8	1.8	1.9	1.2	1.3	1.3	1.3	1.9	
G129.0	2.0	1.9	1.8	1.9	1.3	1.4	1.4	1.4	2.0	
G130.0	2.0	1.9	1.9	1.9	1.3	1.5	1.4	1.4	2.0	
G131.0	2.1	2.0	1.9	2.1	1.4	1.5	1.5	1.5	2.1	
G132.0	2.1	2.1	2.0	2.1	1.4	1.6	1.6	1.6	2.1	
G133.0	2.2	2.1	2.1	2.2	1.5	1.6	1.6	1.6	2.2	
G134.0	2.2	2.2	2.1	2.2	1.5	1.7	1.6	1.6	2.2	
G135.0	2.3	2.2	2.2	2.3	1.5	1.7	1.7	1.7	2.3	
G136.0	2.3	2.3	2.2	2.3	1.6	1.7	1.7	1.7	2.3	
G137.0	2.4	2.3	2.3	2.4	1.6	1.8	1.8	1.8	2.4	
G138.0	2.4	2.3	2.3	2.5	1.6	1.8	1.8	1.8	2.4	
G139.0	2.5	2.4	2.4	2.5	1.7	1.8	1.9	1.8	2.5	
G140.0	2.5	2.4	2.5	2.5	1.8	1.9	1.9	1.9	2.5	
G141.0	2.6	2.5	2.5	2.6	1.8	1.9	2.0	1.9	2.6	
G142.0	2.6	2.6	2.6	2.6	1.8	2.0	2.0	1.9	2.6	
G143.0	2.6	2.6	2.6	2.7	1.9	2.0	2.0	2.0	2.6	
G144.0	2.7	2.6	2.6	2.7	1.9	2.0	2.1	2.0	2.7	
G145.0	2.8	2.7	2.7	2.8	2.0	2.1	2.1	2.0	2.8	
G146.0	2.8	2.7	2.7	2.8	2.0	2.1	2.1	2.1	2.8	
G147.0	2.8	2.7	2.8	2.8	2.1	2.2	2.2	2.1	2.8	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	2.9	2.8	2.8	2.9	2.1	2.2	2.2	2.2	2.9	
G149.0	2.9	2.8	2.9	2.9	2.1	2.3	2.3	2.3	2.9	
G150.0	2.9	2.9	2.9	3.0	2.2	2.3	2.3	2.3	2.9	
G151.0	3.0	2.9	2.9	3.0	2.2	2.3	2.3	2.3	3.0	
G152.0	2.9	2.9	3.0	3.0	2.2	2.3	2.4	2.4	2.9	
G153.0	3.0	2.9	3.0	3.1	2.3	2.4	2.4	2.4	3.0	
G154.0	3.0	3.0	3.0	3.1	2.3	2.4	2.4	2.5	3.0	
G155.0	3.1	3.1	3.1	3.1	2.3	2.5	2.5	2.5	3.1	
G156.0	3.1	3.1	3.1	3.2	2.4	2.5	2.5	2.6	3.1	
G157.0	3.2	3.1	3.1	3.2	2.5	2.6	2.6	2.6	3.2	
G158.0	3.2	3.2	3.2	3.2	2.5	2.6	2.6	2.6	3.2	
G159.0	3.2	3.2	3.2	3.2	2.6	2.7	2.7	2.7	3.2	
G160.0	3.3	3.2	3.3	3.3	2.7	2.7	2.8	2.8	3.3	
G161.0	3.3	3.3	3.3	3.3	2.7	2.8	2.8	2.8	3.3	
G162.0	3.3	3.3	3.3	3.3	2.8	2.8	2.9	2.8	3.3	
G163.0	3.3	3.3	3.3	3.3	2.8	2.9	2.9	2.9	3.3	
G164.0	3.4	3.3	3.3	3.4	2.9	3.0	3.0	3.0	3.4	
G165.0	3.4	3.4	3.4	3.4	3.0	3.0	3.1	3.0	3.4	
G166.0	3.4	3.4	3.4	3.4	3.0	3.1	3.2	3.1	3.4	
G167.0	3.4	3.4	3.4	3.4	3.1	3.1	3.1	3.1	3.4	
G168.0	3.4	3.4	3.5	3.4	3.1	3.2	3.3	3.2	3.4	
G169.0	3.4	3.5	3.5	3.5	3.2	3.2	3.3	3.2	3.4	
G170.0	3.4	3.5	3.5	3.5	3.3	3.3	3.4	3.3	3.4	
G171.0	3.5	3.5	3.5	3.5	3.3	3.3	3.4	3.3	3.5	
G172.0	3.4	3.5	3.5	3.5	3.3	3.4	3.4	3.3	3.4	
G173.0	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.5	
G174.0	3.5	3.5	3.5	3.5	3.4	3.5	3.5	3.4	3.5	
G175.0	3.5	3.5	3.5	3.5	3.4	3.4	3.5	3.5	3.5	
G176.0	3.5	3.5	3.6	3.5	3.5	3.5	3.5	3.5	3.5	
G177.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
G178.0	3.5	3.5	3.5	3.6	3.5	3.5	3.5	3.5	3.5	
G179.0	3.4	3.6	3.5	3.6	3.5	3.5	3.5	3.5	3.4	
G180.0	3.5	3.6	3.5	3.6	3.5	3.5	3.5	3.5	3.5	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.970 m
Humidity: 55
Inspector: