

Report No.: 5

Test Time: 2018/5/22 14:32

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: VOI19018

Current: 0.386 A

Power Factor: 0.638

Voltage: 12.0 V

Power: 2.95 W

Photometric Results

CIE Class: Direct

Measurement Flux: 162.3 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H21.1

Vertical Diffuse Angle(50%): V20.8

Luminaire Efficacy Rating (LER): 55.06

Max. Intensity: 711.68 cd

S/MH(C0/C180): 0.36

Total Rated Lamp Lumens: 162.3 lm

Efficiency: 100%

Upward Ratio: 0%

Central Intensity: 707.36 cd

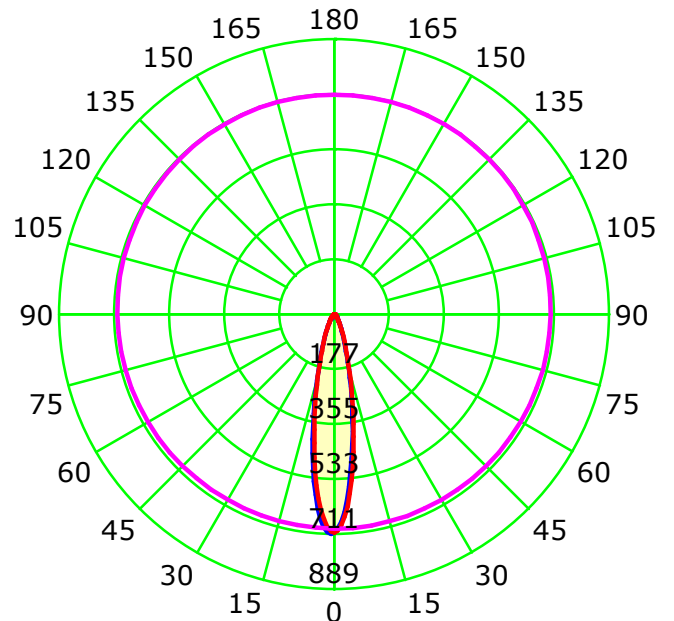
Pos of Max. Intensity: H150 V1

S/MH(C90/C270): 0.35

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 20.9°

— C0-C180 — C90-C270 — G1

C Plane (°):0.0-360.0: 30.0

Test Lab: Inventfine instruments

Test Type: TYPE C

Temperature: 26

Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0

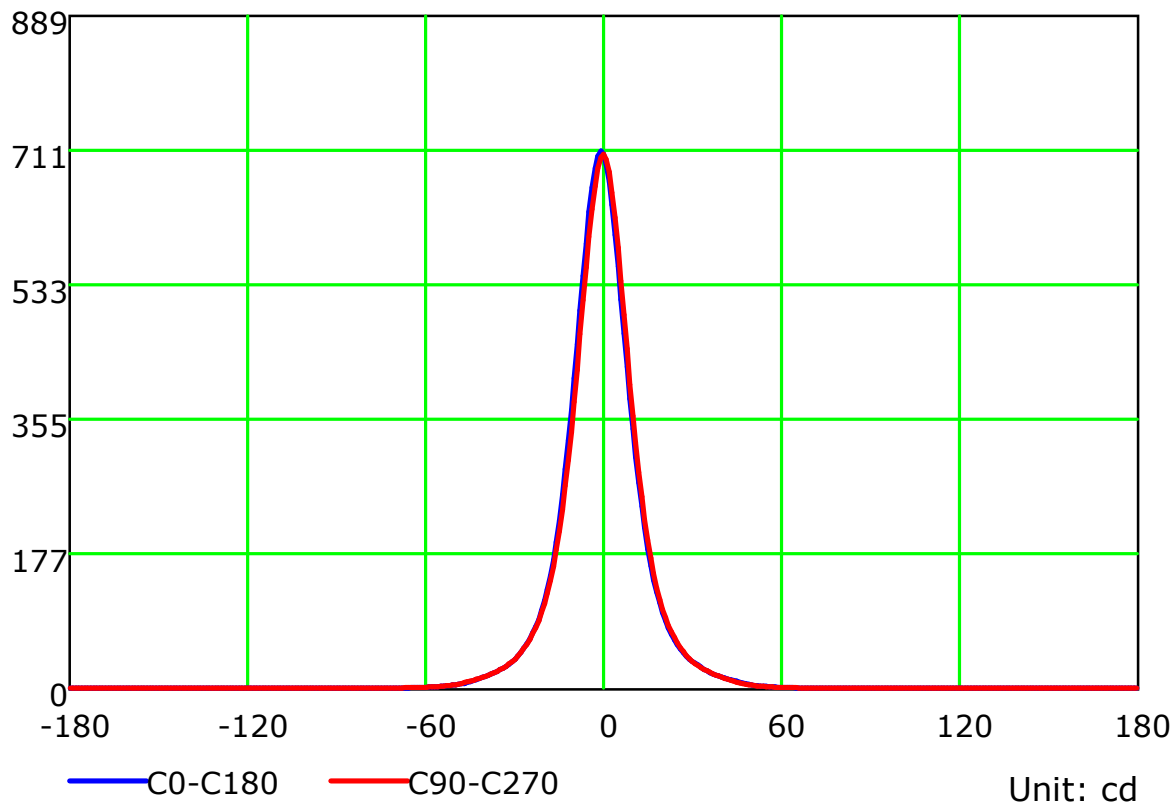
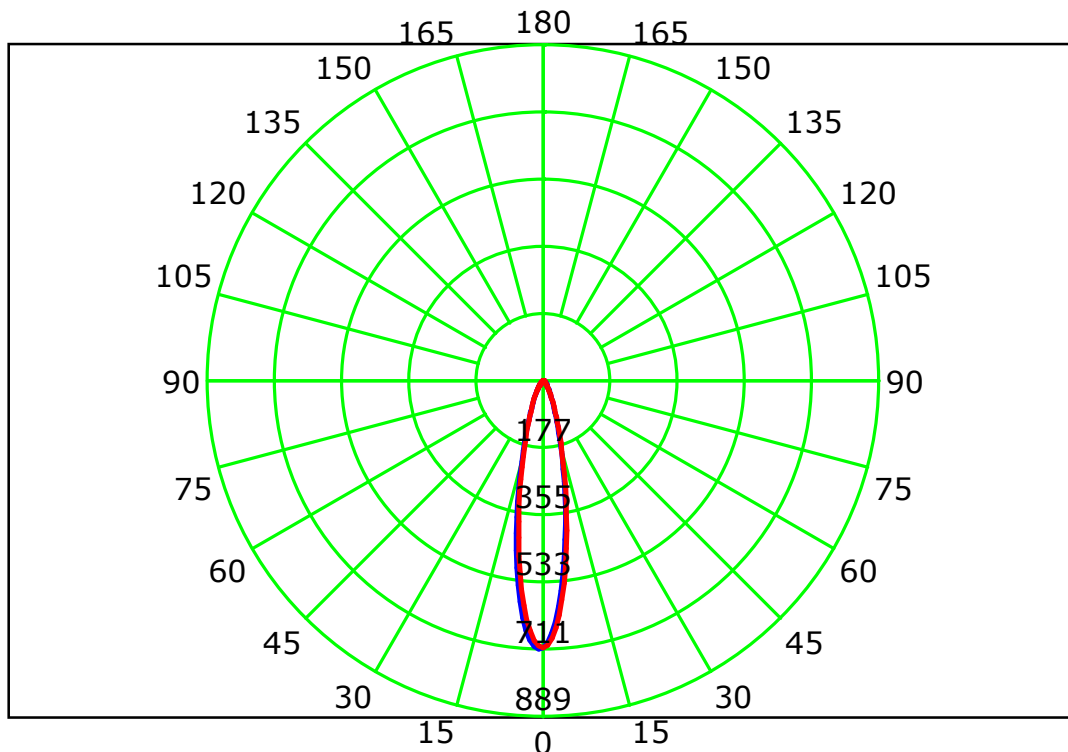
Test Device: GPM-1800B

Distance: 7.951 m

Humidity: 58

Inspector:

Luminous Intensity Distribution Curve



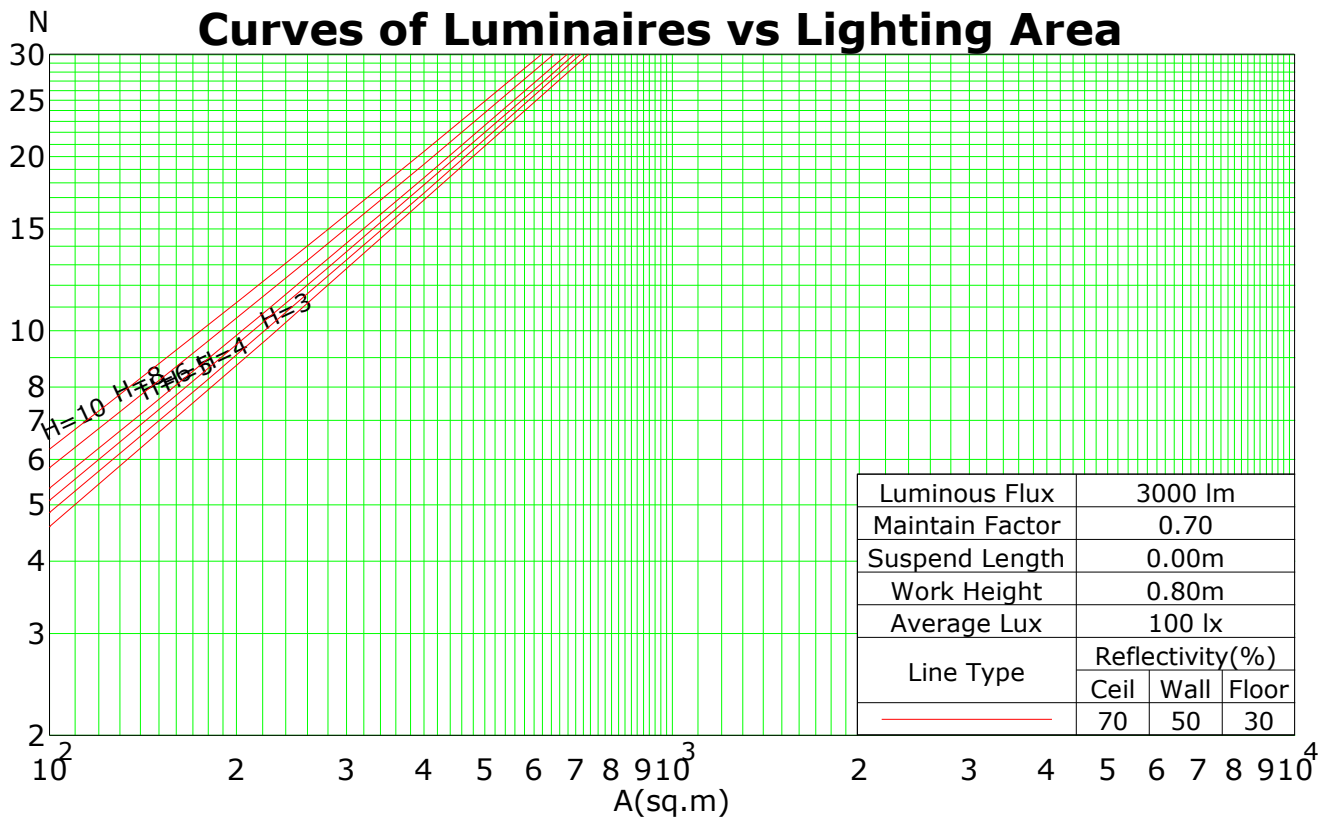
C Plane (°):0.0-360.0: 30.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.951 m
Humidity: 58
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	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	96	90	86	83	89	85	82	87	84	81	86	83	80	79
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	73
8	88	81	76	72	87	80	75	72	79	75	72	78	74	72	77	74	72	70
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66

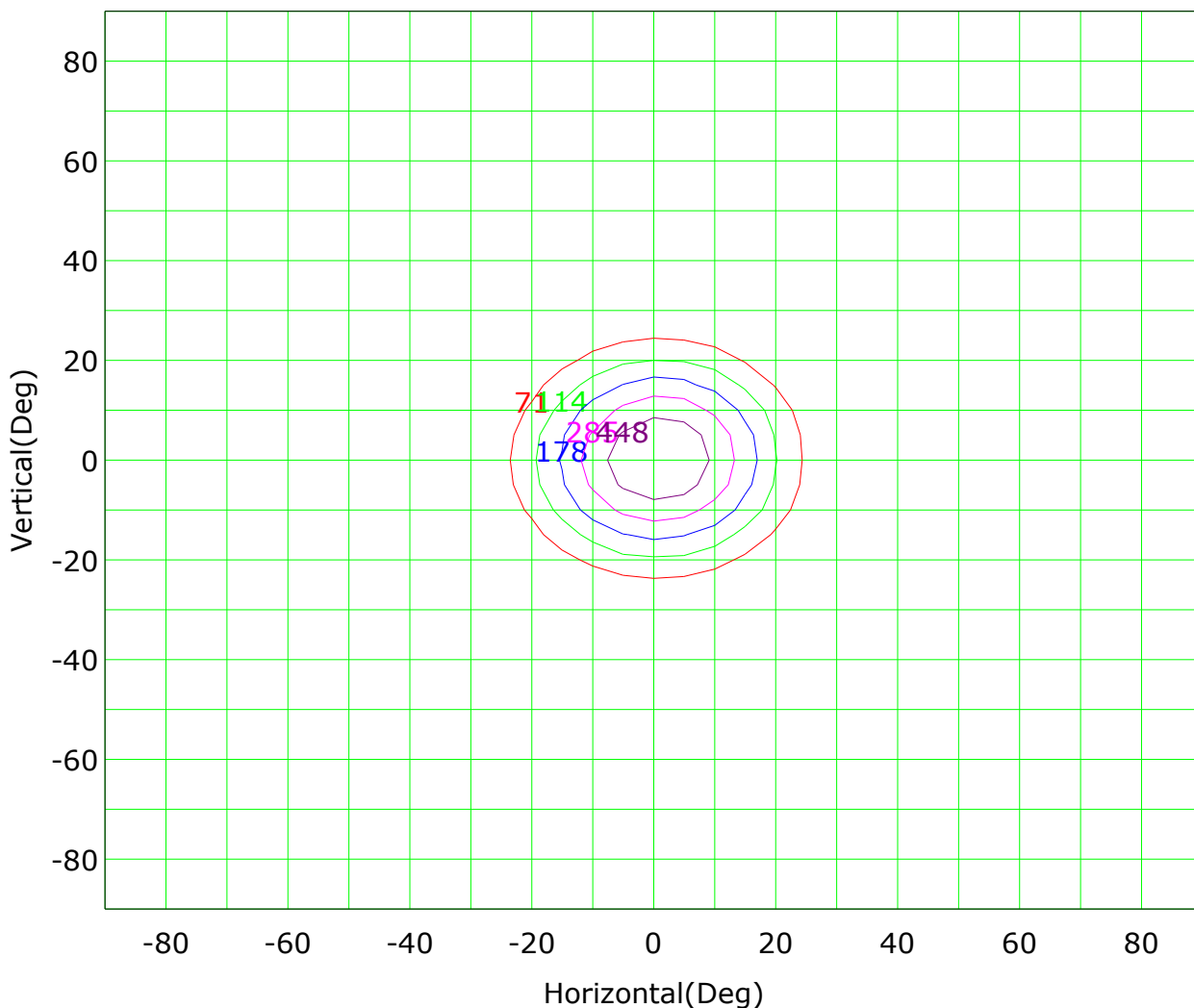
Spacing Criteria (0-180): 0.36
 Spacing Criteria (90-270): 0.35
 Spacing Criteria (Diagonal): 0.39



C Plane (°):0.0-360.0: 30.0
 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: 7.951 m
 Humidity: 58
 Inspector:

Isocandela (rectangle)



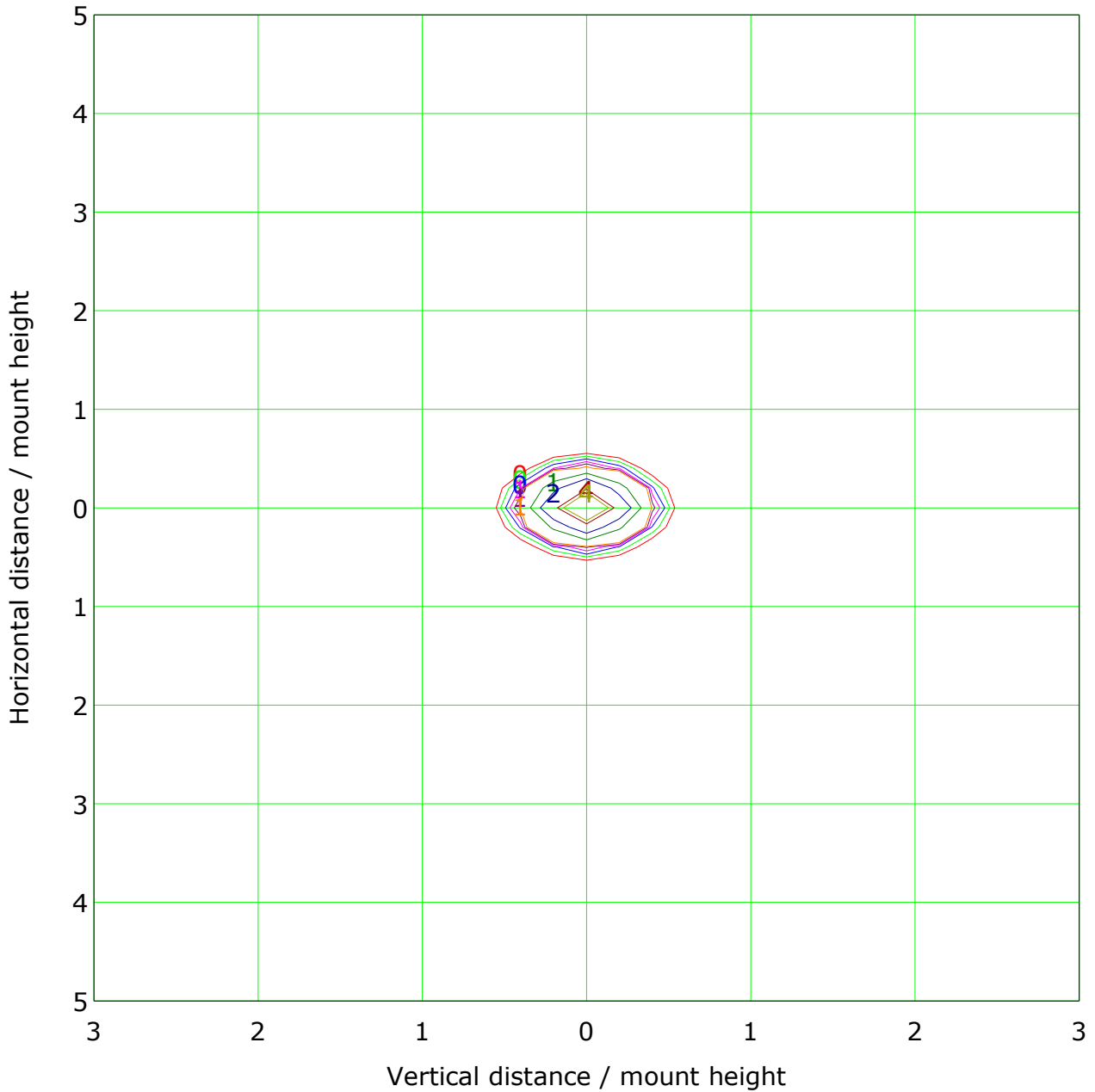
Imax (100%): 712 cd

— (10%): 71 cd	— (16%): 114 cd
— (25%): 178 cd	— (40%): 285 cd
— (63%): 448 cd	— (100%): 712 cd

C Plane (°):0.0-360.0: 30.0
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: 7.951 m
Humidity: 58
Inspector:

IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 7.1 lx	
— (5%):	0.4 lx	— (6%):	0.4 lx
— (7%):	0.5 lx	— (8%):	0.6 lx
— (9%):	0.6 lx	— (10%):	0.7 lx
— (20%):	1.4 lx	— (30%):	2.1 lx
— (50%):	3.6 lx	— (60%):	4.3 lx

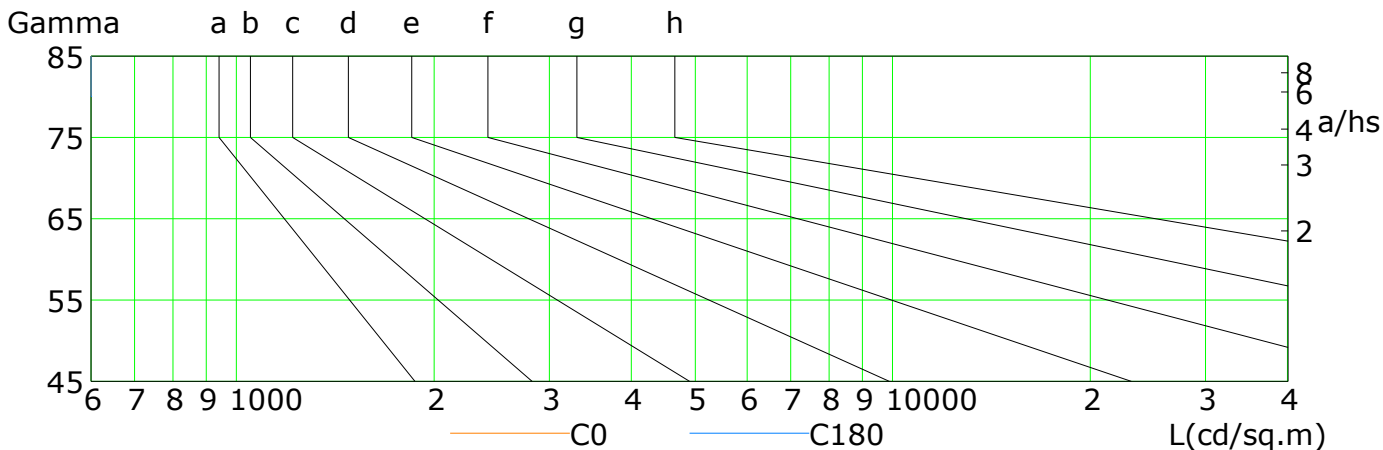
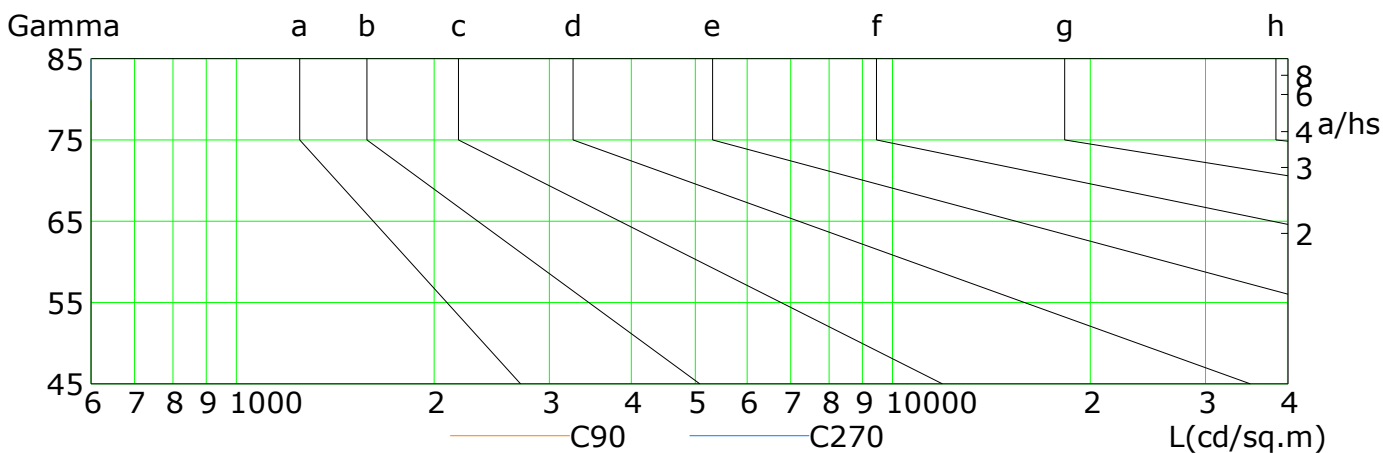
C Plane (°):0.0-360.0: 30.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.951 m
Humidity: 58
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
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

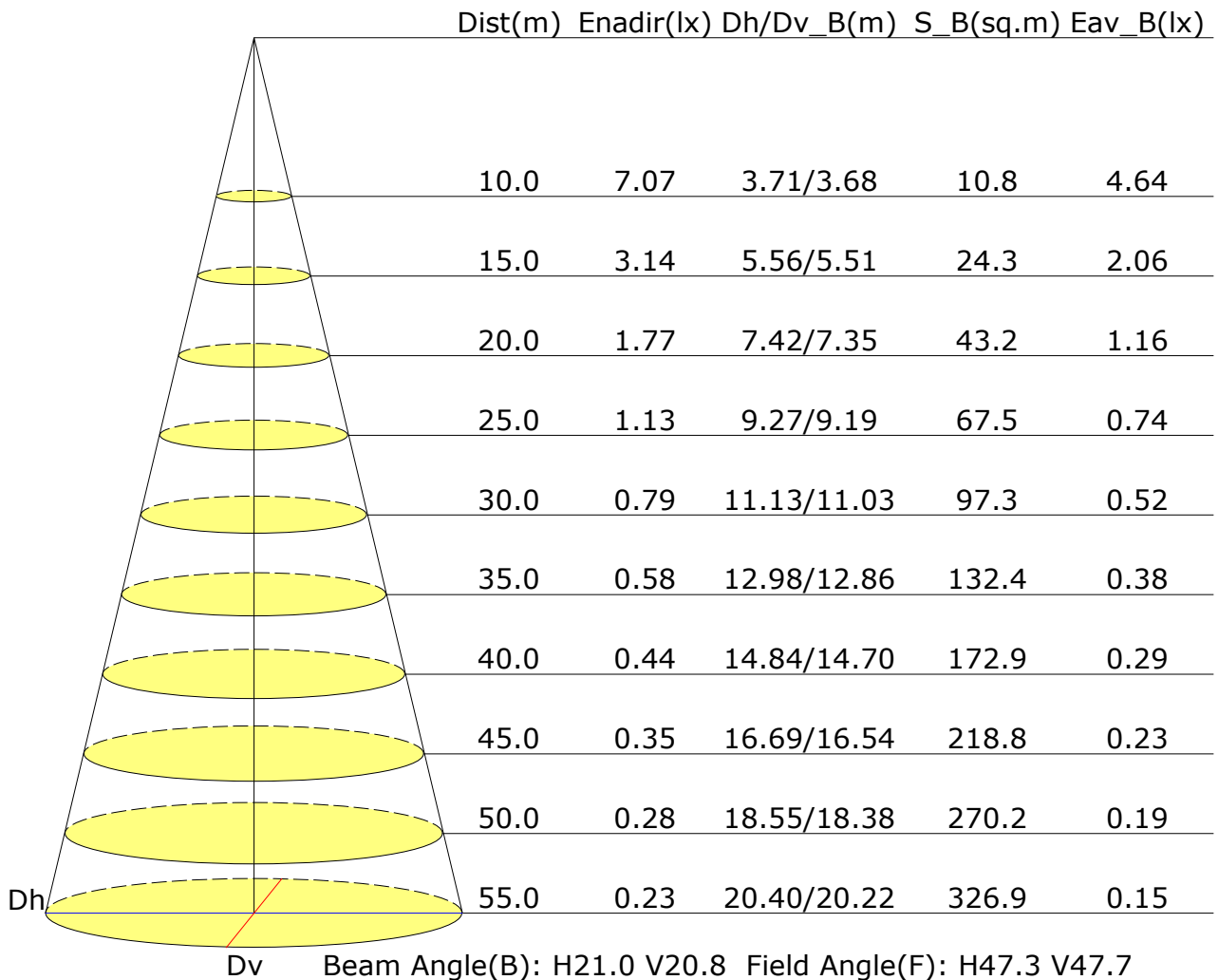


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9	5	3	1	1	0	0	0	0
C90	8	4	2	1	1	0	0	0	0
C180	9	5	3	2	1	0	0	0	0
C270	10	5	3	2	1	1	0	0	0

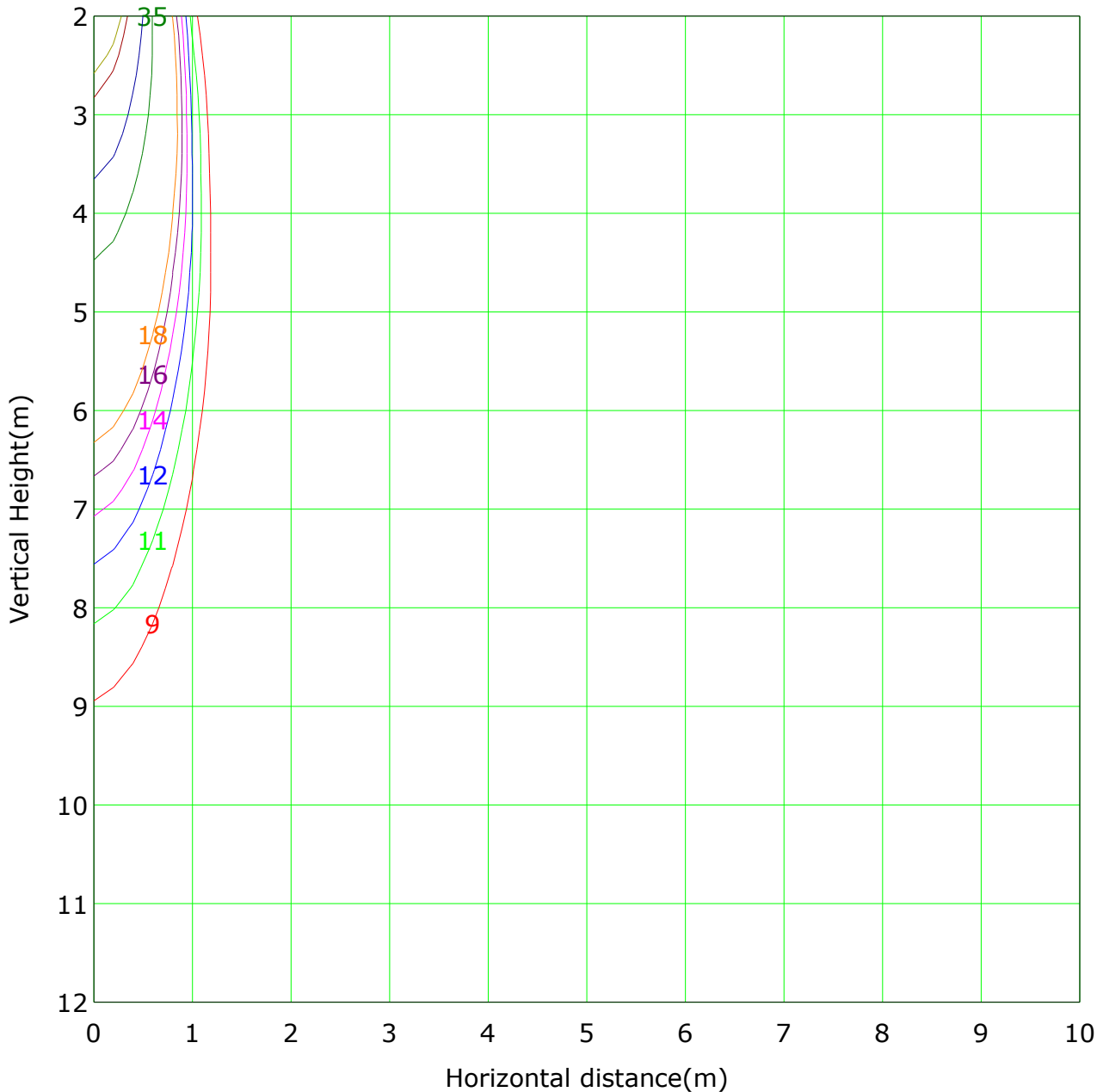
C Plane (°):0.0-360.0: 30.0
Test Lab: Inventfine instruments
Test Type: TYPE C
Temperature: 26
Operator: Jacky tang

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.951 m
Humidity: 58
Inspector:

Illuminance at a Distance



Vertical IsoLux Plot

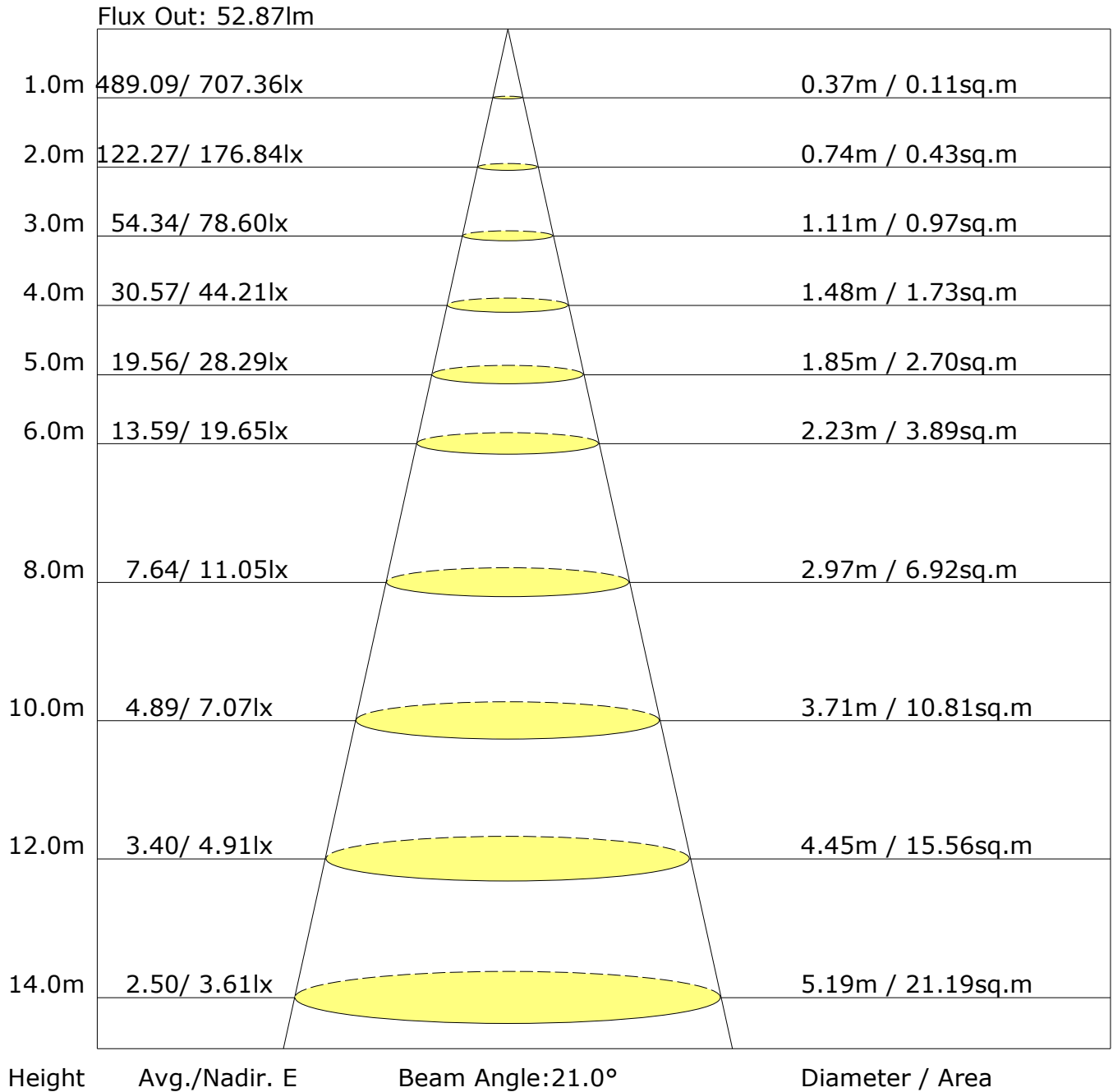


Lowest(m): 2.0m	Highest(m): 12.0m	Max Lux: 176.8 lx
— (5%): 8.8 lx	— (6%): 10.6 lx	
— (7%): 12.4 lx	— (8%): 14.1 lx	
— (9%): 15.9 lx	— (10%): 17.7 lx	
— (20%): 35.4 lx	— (30%): 53.1 lx	
— (50%): 88.4 lx	— (60%): 106.1 lx	

C Plane (°):0.0-360.0: 30.0
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: 7.951 m
Humidity: 58
Inspector:

The Average Illuminance Effective Figure



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										
S=1.5H										
S=2.0H										

Calculate in accordance with CIE Pub.117. The table is revised with $162lm (8\log(F/F_0) = -6.3)$.

C Plane (°):0.0-360.0: 30.0
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: 7.951 m
Humidity: 58
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
G1.0	693.8	693.9	696.5	700.3	706.4	711.7	710.9	711.7	708.2	702.9
G2.0	670.9	671.8	676.8	683.0	694.3	705.0	704.5	706.6	699.6	688.4
G3.0	640.3	639.0	645.4	656.5	671.8	687.6	688.3	691.8	682.1	665.0
G4.0	600.2	602.8	610.5	623.0	641.2	658.3	663.3	669.0	657.0	634.1
G5.0	558.7	561.6	570.1	583.1	603.1	623.2	630.7	638.7	624.7	597.4
G6.0	514.3	517.9	526.7	539.4	560.5	582.5	588.5	598.9	587.2	556.8
G7.0	469.6	472.8	481.9	494.1	515.3	538.2	545.7	557.2	545.3	513.6
G8.0	425.5	428.9	437.6	449.5	465.1	492.6	500.5	512.9	501.1	469.1
G9.0	383.6	386.7	394.9	401.9	420.8	447.2	455.2	467.8	452.3	421.2
G10.0	343.2	346.1	353.8	360.2	377.7	402.2	410.7	423.0	408.4	379.1
G11.0	306.2	308.8	316.0	325.3	337.9	360.3	368.3	379.6	366.4	339.4
G12.0	272.3	274.6	277.9	286.2	301.3	321.7	328.2	338.5	326.4	302.4
G13.0	241.0	243.0	245.9	253.5	267.5	285.8	290.5	299.6	289.0	267.8
G14.0	212.8	211.6	216.7	223.5	233.4	249.5	255.9	264.1	254.9	236.6
G15.0	184.5	185.8	190.2	196.3	204.9	218.9	221.5	231.6	223.7	208.3
G16.0	162.6	163.6	167.4	172.6	180.0	192.1	193.7	202.4	196.1	183.3
G17.0	143.6	144.3	145.7	152.0	158.2	168.5	169.5	177.1	172.0	161.6
G18.0	127.1	127.7	128.9	132.4	139.4	148.1	148.7	155.2	149.4	142.9
G19.0	113.0	113.5	114.4	117.4	123.4	130.8	131.3	135.2	132.2	125.6
G20.0	100.8	101.1	101.8	104.4	109.4	115.9	116.1	119.5	117.4	111.9
G21.0	89.1	89.5	91.0	93.2	96.5	102.0	103.3	106.3	104.7	100.1
G22.0	79.8	80.1	81.5	83.3	86.2	91.1	91.2	94.9	93.6	89.7
G23.0	71.6	72.0	72.3	74.7	77.3	81.6	81.6	84.7	83.7	80.5
G24.0	64.3	64.7	64.8	67.0	69.2	73.0	73.1	76.0	75.0	72.3
G25.0	57.8	58.3	58.3	60.2	62.1	65.4	65.5	67.4	66.5	64.9
G26.0	52.2	52.7	52.6	53.7	55.8	58.6	58.7	60.6	59.8	58.4
G27.0	47.2	47.7	47.6	48.4	50.2	52.6	52.7	54.4	53.8	52.6
G28.0	42.6	43.0	42.8	43.7	44.9	47.0	47.6	49.1	48.5	47.6
G29.0	39.0	39.4	39.0	39.7	40.7	42.5	43.0	44.4	43.8	42.8
G30.0	35.8	36.1	35.5	35.8	37.0	38.6	38.6	40.2	39.8	38.9
G31.0	33.1	33.1	32.4	32.7	33.8	35.1	35.1	36.3	35.8	35.5
G32.0	30.6	30.2	29.7	30.0	30.9	31.6	32.1	33.2	32.7	32.3
G33.0	28.0	27.3	27.4	27.6	28.0	28.9	29.4	30.4	30.1	29.4
G34.0	25.2	25.0	25.1	25.2	25.6	26.4	26.9	28.0	27.7	26.7
G35.0	23.1	23.0	23.2	23.2	23.5	24.2	24.6	25.8	25.5	24.7
G36.0	21.2	21.2	21.4	21.2	21.6	22.0	22.6	23.7	23.5	22.5

C Plane (°):0.0-360.0: 30.0
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: 7.951 m
Humidity: 58
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G37.0	19.4	19.3	19.7	19.5	19.8	20.1	20.6	21.7	21.7	20.7
G38.0	17.7	17.8	18.0	17.7	18.2	18.4	18.9	19.8	19.7	19.0
G39.0	16.3	16.4	16.5	16.2	16.6	16.8	17.3	18.0	18.0	17.5
G40.0	14.9	15.1	15.2	14.6	15.2	15.3	15.9	16.4	16.5	16.1
G41.0	13.7	13.7	13.8	13.3	13.8	13.7	14.5	14.7	15.0	14.7
G42.0	12.5	12.3	12.4	12.0	12.3	12.3	13.1	13.2	13.6	13.4
G43.0	11.5	11.0	11.1	10.8	11.0	10.9	11.7	11.9	12.3	12.0
G44.0	10.5	9.9	9.9	9.5	9.8	9.7	10.2	10.6	11.1	10.8
G45.0	9.4	8.7	8.8	8.3	8.6	8.4	8.9	9.3	9.9	9.7
G46.0	8.3	7.6	7.7	7.3	7.5	7.3	7.7	8.1	8.8	8.6
G47.0	7.3	6.7	6.7	6.3	6.5	6.3	6.7	7.1	7.7	7.7
G48.0	6.5	5.8	5.9	5.5	5.7	5.6	6.0	6.2	6.8	6.8
G49.0	5.7	5.0	5.1	4.8	5.1	4.9	5.3	5.4	6.0	5.8
G50.0	4.9	4.4	4.5	4.3	4.5	4.4	4.8	4.8	5.3	5.1
G51.0	4.2	3.7	3.9	3.8	4.0	3.8	4.2	4.2	4.7	4.5
G52.0	3.7	3.3	3.5	3.3	3.6	3.4	3.8	3.7	4.2	4.0
G53.0	3.3	2.9	3.1	2.9	3.3	3.1	3.5	3.3	3.7	3.5
G54.0	2.9	2.5	2.8	2.6	3.0	2.7	3.1	2.9	3.3	3.1
G55.0	2.6	2.3	2.5	2.4	2.7	2.5	2.8	2.6	3.0	2.8
G56.0	2.3	2.0	2.3	2.1	2.4	2.2	2.5	2.3	2.7	2.5
G57.0	2.1	1.8	2.1	1.9	2.2	2.0	2.3	2.1	2.4	2.2
G58.0	1.8	1.6	1.9	1.7	2.0	1.9	2.0	1.9	2.2	2.0
G59.0	1.6	1.4	1.7	1.5	1.8	1.7	1.8	1.8	1.9	1.8
G60.0	1.4	1.3	1.5	1.4	1.7	1.6	1.7	1.6	1.8	1.7
G61.0	1.3	1.2	1.4	1.3	1.6	1.5	1.5	1.5	1.6	1.5
G62.0	1.2	1.1	1.3	1.2	1.4	1.3	1.3	1.3	1.5	1.4
G63.0	1.0	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.4	1.3
G64.0	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.1
G65.0	0.8	0.8	0.9	0.9	1.0	1.0	0.9	1.0	1.1	1.1
G66.0	0.7	0.7	0.8	0.8	0.9	0.9	0.8	0.9	1.0	1.0
G67.0	0.6	0.6	0.7	0.7	0.8	0.8	0.7	0.8	0.9	0.9
G68.0	0.5	0.5	0.6	0.6	0.7	0.7	0.6	0.7	0.7	0.8
G69.0	0.4	0.4	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.7
G70.0	0.3	0.3	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.6
G71.0	0.3	0.2	0.4	0.4	0.5	0.5	0.3	0.5	0.5	0.5
G72.0	0.2	0.2	0.3	0.4	0.4	0.4	0.3	0.4	0.5	0.4
G73.0	0.2	0.1	0.3	0.3	0.3	0.3	0.2	0.3	0.4	0.4

C Plane (°):0.0-360.0: 30.0
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: 7.951 m
Humidity: 58
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	0.1	0.1	0.2	0.2	0.3	0.3	0.1	0.3	0.3	0.3
G75.0	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
G76.0	0.0	0.0	0.1	0.1	0.2	0.1	0.0	0.1	0.2	0.1
G77.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
G78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
G79.0	0.0	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	0.0
G81.0	0.0	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	0.0
G83.0	0.0	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	0.0
G85.0	0.0	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	0.0
G87.0	0.0	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	0.0
G89.0	0.0	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	0.0
G91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G92.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G93.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G97.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G98.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G101.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G102.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G106.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G107.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G108.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G109.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C Plane (°):0.0-360.0: 30.0
 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: 7.951 m
 Humidity: 58
 Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G112.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G113.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G114.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G116.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G117.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G118.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G119.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G121.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G122.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G123.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G124.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G126.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G127.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G128.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G129.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G131.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G132.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G133.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G134.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G136.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G137.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G138.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G139.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G141.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G142.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G143.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G144.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G146.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G147.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C Plane (°):0.0-360.0: 30.0
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: 7.951 m
Humidity: 58
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G149.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G151.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G152.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G153.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G154.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G156.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G157.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G158.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G159.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G161.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G162.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G164.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G166.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G167.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G168.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G169.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G171.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G172.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G173.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G174.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G176.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G177.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G178.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G179.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
G180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

C Plane (°):0.0-360.0: 30.0
 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: 7.951 m
 Humidity: 58
 Inspector:

Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	707.4	707.4	707.4							
G1.0	697.0	692.0	693.8							
G2.0	676.8	667.7	670.9							
G3.0	647.8	635.2	640.3							
G4.0	609.1	597.3	600.2							
G5.0	568.5	555.2	558.7							
G6.0	525.4	506.5	514.3							
G7.0	481.0	461.7	469.6							
G8.0	436.9	417.9	425.5							
G9.0	394.7	376.6	383.6							
G10.0	350.5	337.5	343.2							
G11.0	313.3	301.4	306.2							
G12.0	278.8	267.7	272.3							
G13.0	246.9	236.8	241.0							
G14.0	218.2	208.8	212.8							
G15.0	192.2	181.5	184.5							
G16.0	169.5	161.9	162.6							
G17.0	149.7	141.3	143.6							
G18.0	131.1	125.3	127.1							
G19.0	116.8	111.6	113.0							
G20.0	104.2	99.5	100.8							
G21.0	93.3	89.1	89.1							
G22.0	83.6	79.9	79.8							
G23.0	75.0	70.9	71.6							
G24.0	66.8	63.8	64.3							
G25.0	60.1	57.5	57.8							
G26.0	54.2	51.9	52.2							
G27.0	49.1	47.0	47.2							
G28.0	44.7	42.8	42.6							
G29.0	40.7	39.2	39.0							
G30.0	37.4	36.2	35.8							
G31.0	34.1	33.1	33.1							
G32.0	31.2	30.6	30.6							
G33.0	28.5	28.1	28.0							
G34.0	26.0	25.7	25.2							
G35.0	23.8	23.4	23.1							
G36.0	21.8	21.5	21.2							

C Plane (°):0.0-360.0: 30.0
 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: 7.951 m
 Humidity: 58
 Inspector:

Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	20.0	19.4	19.4							
G38.0	18.2	17.8	17.7							
G39.0	16.8	16.4	16.3							
G40.0	15.5	15.1	14.9							
G41.0	14.3	13.9	13.7							
G42.0	13.3	12.8	12.5							
G43.0	12.1	11.7	11.5							
G44.0	10.9	10.5	10.5							
G45.0	9.8	9.5	9.4							
G46.0	8.7	8.5	8.3							
G47.0	7.7	7.6	7.3							
G48.0	6.8	6.8	6.5							
G49.0	6.1	6.0	5.7							
G50.0	5.3	5.3	4.9							
G51.0	4.6	4.6	4.2							
G52.0	4.0	4.0	3.7							
G53.0	3.6	3.6	3.3							
G54.0	3.2	3.2	2.9							
G55.0	2.9	2.8	2.6							
G56.0	2.6	2.5	2.3							
G57.0	2.4	2.2	2.1							
G58.0	2.1	2.0	1.8							
G59.0	1.9	1.8	1.6							
G60.0	1.7	1.7	1.4							
G61.0	1.6	1.5	1.3							
G62.0	1.4	1.4	1.2							
G63.0	1.3	1.2	1.0							
G64.0	1.2	1.1	0.9							
G65.0	1.0	1.1	0.8							
G66.0	0.9	1.0	0.7							
G67.0	0.8	0.8	0.6							
G68.0	0.7	0.8	0.5							
G69.0	0.6	0.7	0.4							
G70.0	0.5	0.6	0.3							
G71.0	0.5	0.5	0.3							
G72.0	0.4	0.5	0.2							
G73.0	0.3	0.4	0.2							

C Plane (°):0.0-360.0: 30.0
 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: 7.951 m
 Humidity: 58
 Inspector:

Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	0.3	0.3	0.1							
G75.0	0.2	0.2	0.1							
G76.0	0.1	0.2	0.0							
G77.0	0.1	0.1	0.0							
G78.0	0.0	0.0	0.0							
G79.0	0.0	0.0	0.0							
G80.0	0.0	0.0	0.0							
G81.0	0.0	0.0	0.0							
G82.0	0.0	0.0	0.0							
G83.0	0.0	0.0	0.0							
G84.0	0.0	0.0	0.0							
G85.0	0.0	0.0	0.0							
G86.0	0.0	0.0	0.0							
G87.0	0.0	0.0	0.0							
G88.0	0.0	0.0	0.0							
G89.0	0.0	0.0	0.0							
G90.0	0.0	0.0	0.0							
G91.0	0.0	0.0	0.0							
G92.0	0.0	0.0	0.0							
G93.0	0.0	0.0	0.0							
G94.0	0.0	0.0	0.0							
G95.0	0.0	0.0	0.0							
G96.0	0.0	0.0	0.0							
G97.0	0.0	0.0	0.0							
G98.0	0.0	0.0	0.0							
G99.0	0.0	0.0	0.0							
G100.0	0.0	0.0	0.0							
G101.0	0.0	0.0	0.0							
G102.0	0.0	0.0	0.0							
G103.0	0.0	0.0	0.0							
G104.0	0.0	0.0	0.0							
G105.0	0.0	0.0	0.0							
G106.0	0.0	0.0	0.0							
G107.0	0.0	0.0	0.0							
G108.0	0.0	0.0	0.0							
G109.0	0.0	0.0	0.0							
G110.0	0.0	0.0	0.0							

C Plane (°):0.0-360.0: 30.0
 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: 7.951 m
 Humidity: 58
 Inspector:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	0.0	0.0	0.0							
G112.0	0.0	0.0	0.0							
G113.0	0.0	0.0	0.0							
G114.0	0.0	0.0	0.0							
G115.0	0.0	0.0	0.0							
G116.0	0.0	0.0	0.0							
G117.0	0.0	0.0	0.0							
G118.0	0.0	0.0	0.0							
G119.0	0.0	0.0	0.0							
G120.0	0.0	0.0	0.0							
G121.0	0.0	0.0	0.0							
G122.0	0.0	0.0	0.0							
G123.0	0.0	0.0	0.0							
G124.0	0.0	0.0	0.0							
G125.0	0.0	0.0	0.0							
G126.0	0.0	0.0	0.0							
G127.0	0.0	0.0	0.0							
G128.0	0.0	0.0	0.0							
G129.0	0.0	0.0	0.0							
G130.0	0.0	0.0	0.0							
G131.0	0.0	0.0	0.0							
G132.0	0.0	0.0	0.0							
G133.0	0.0	0.0	0.0							
G134.0	0.0	0.0	0.0							
G135.0	0.0	0.0	0.0							
G136.0	0.0	0.0	0.0							
G137.0	0.0	0.0	0.0							
G138.0	0.0	0.0	0.0							
G139.0	0.0	0.0	0.0							
G140.0	0.0	0.0	0.0							
G141.0	0.0	0.0	0.0							
G142.0	0.0	0.0	0.0							
G143.0	0.0	0.0	0.0							
G144.0	0.0	0.0	0.0							
G145.0	0.0	0.0	0.0							
G146.0	0.0	0.0	0.0							
G147.0	0.0	0.0	0.0							

C Plane (°):0.0-360.0: 30.0
 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: 7.951 m
 Humidity: 58
 Inspector:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	0.0	0.0	0.0							
G149.0	0.0	0.0	0.0							
G150.0	0.0	0.0	0.0							
G151.0	0.0	0.0	0.0							
G152.0	0.0	0.0	0.0							
G153.0	0.0	0.0	0.0							
G154.0	0.0	0.0	0.0							
G155.0	0.0	0.0	0.0							
G156.0	0.0	0.0	0.0							
G157.0	0.0	0.0	0.0							
G158.0	0.0	0.0	0.0							
G159.0	0.0	0.0	0.0							
G160.0	0.0	0.0	0.0							
G161.0	0.0	0.0	0.0							
G162.0	0.0	0.0	0.0							
G163.0	0.0	0.0	0.0							
G164.0	0.0	0.0	0.0							
G165.0	0.0	0.0	0.0							
G166.0	0.0	0.0	0.0							
G167.0	0.0	0.0	0.0							
G168.0	0.0	0.0	0.0							
G169.0	0.0	0.0	0.0							
G170.0	0.0	0.0	0.0							
G171.0	0.0	0.0	0.0							
G172.0	0.0	0.0	0.0							
G173.0	0.0	0.0	0.0							
G174.0	0.0	0.0	0.0							
G175.0	0.0	0.0	0.0							
G176.0	0.0	0.0	0.0							
G177.0	0.0	0.0	0.0							
G178.0	0.0	0.0	0.0							
G179.0	0.0	0.0	0.0							
G180.0	0.0	0.0	0.0							

C Plane (°):0.0-360.0: 30.0
 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: 7.951 m
 Humidity: 58
 Inspector: