

Report No.: GFB17946

Test Time: 2019-4-16 08:34

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: STC30W-5000K

Number of Lamps: 1

Luminous Length (mm): 0 mm

Luminous Height (mm): 0 mm

Current: 0.910 A

Power Factor: 0.528

Lamp Catalog: LED

Lumens per Lamp: 5856.3 lm

Luminous Width (mm): 0 mm

Voltage: 32.54 V

Power: 29.61 W

Photometric Results

CIE Class: Direct

Measurement Flux: 5856.3 lm

Downward Ratio: 97.96%

Horizontal Diffuse Angle(50%): H74.4

Vertical Diffuse Angle(50%): V149.7

Luminaire Efficacy Rating (LER): 197.83

Max. Intensity: 2039.28 cd

S/MH(C0/C180): 1.08

Total Rated Lamp Lumens: 5856.3 lm

Efficiency: 100.00%

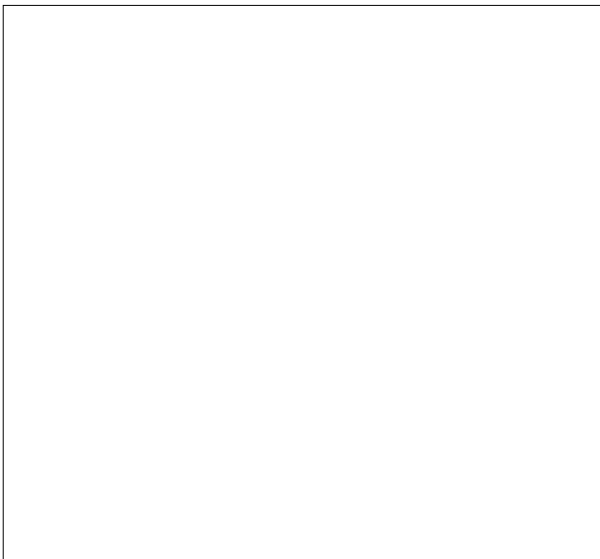
Upward Ratio: 2.04%

Central Intensity: 1519.09 cd

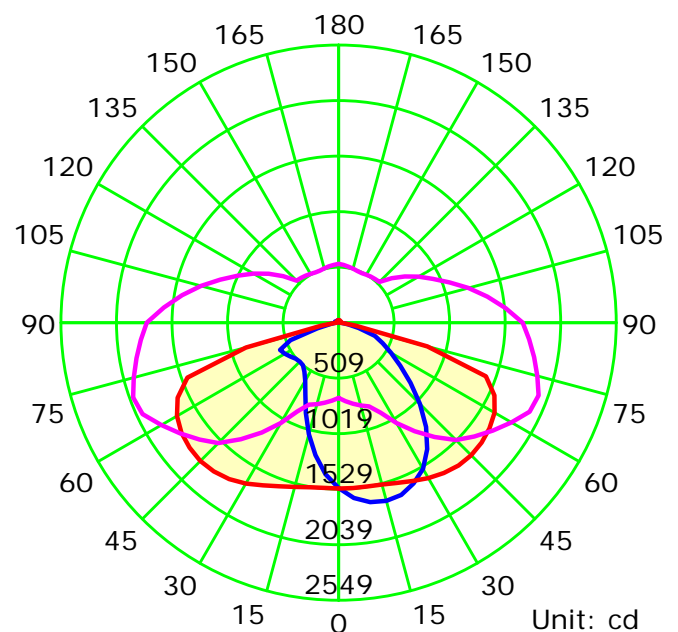
Pos of Max. Intensity: H292.5 V55

S/MH(C90/C270): 1.72

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270 — G55

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0

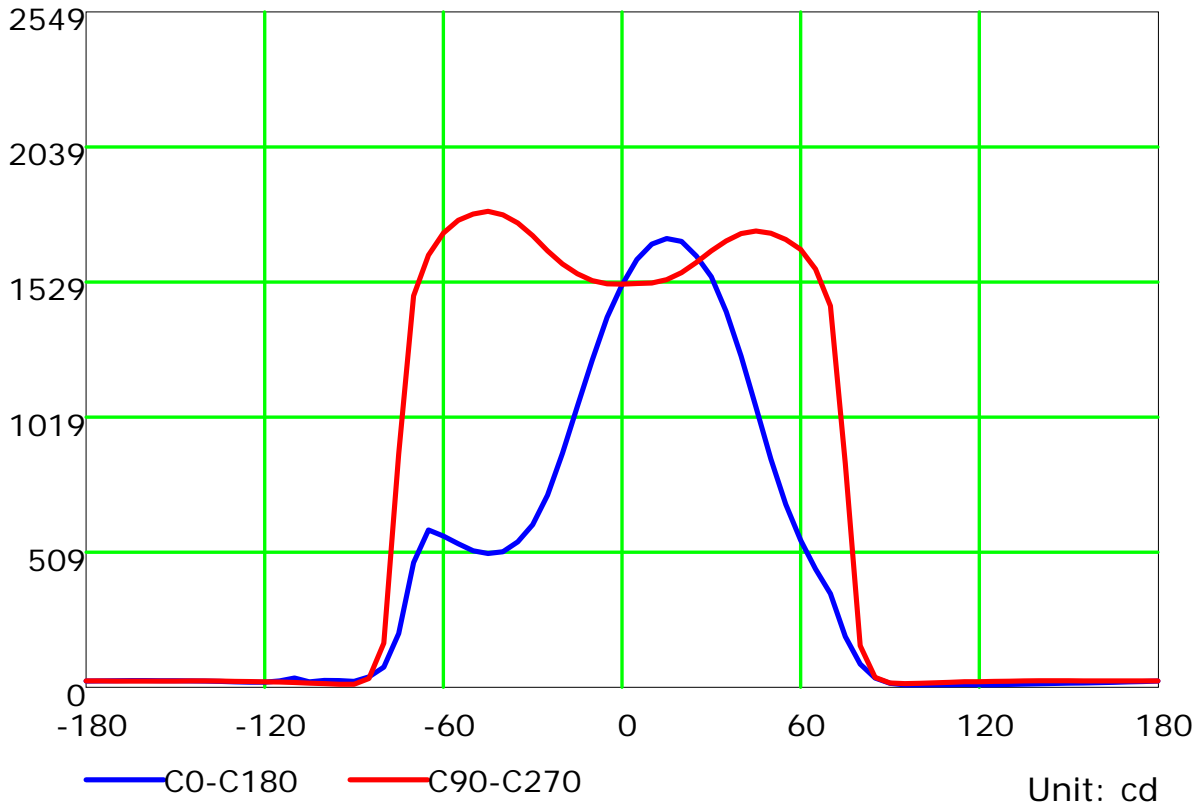
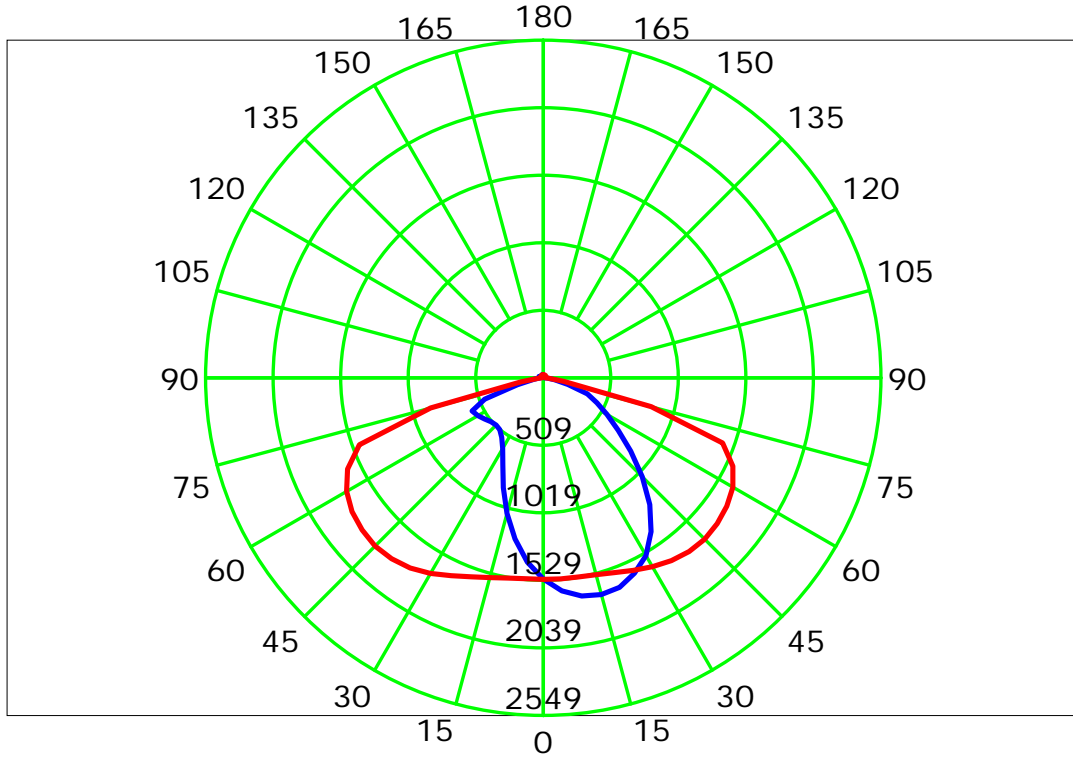
Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector:

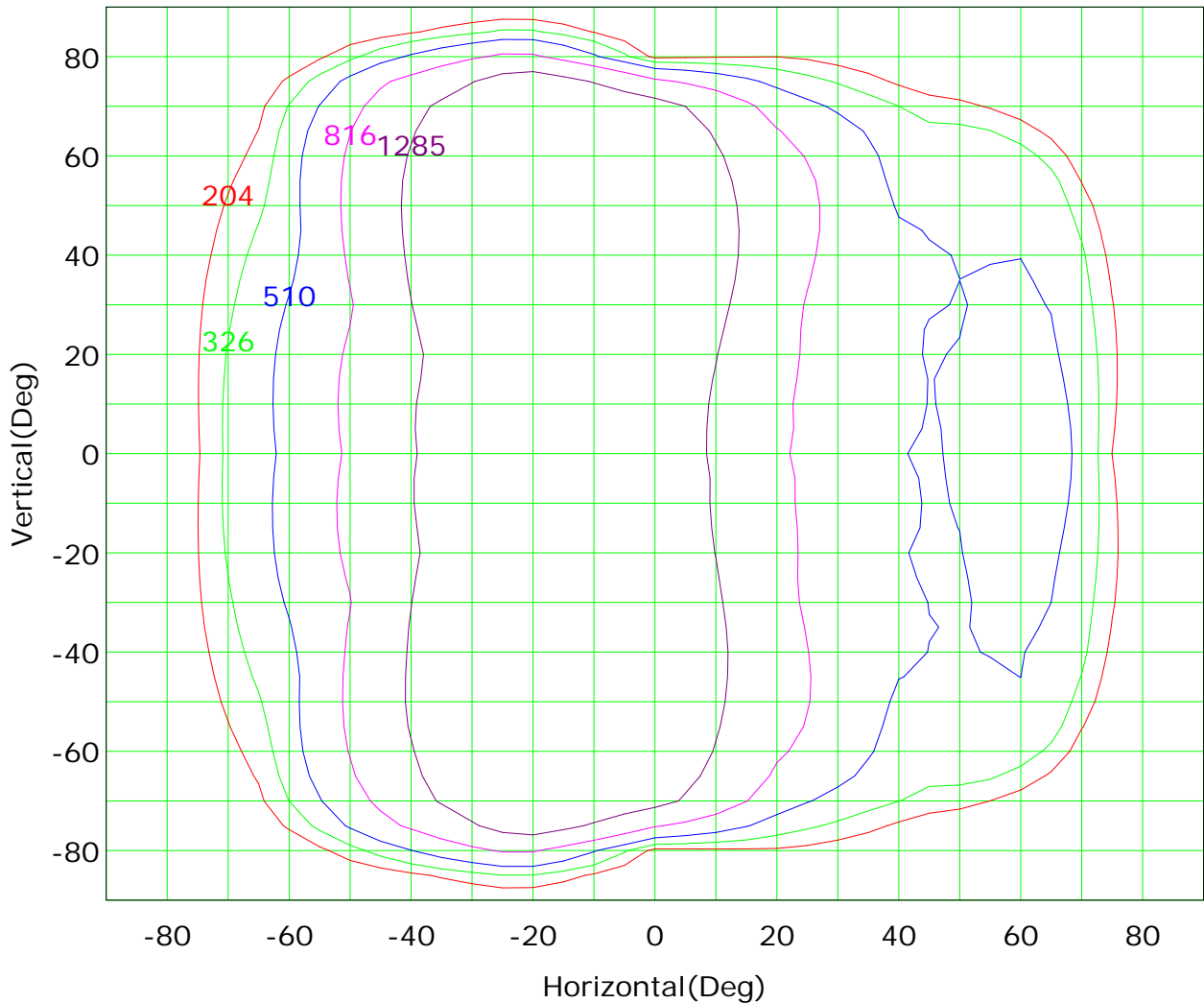
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1600L
 Distance: 8.154 m
 Humidity:
 Inspector:

Isocandela (rectangle)



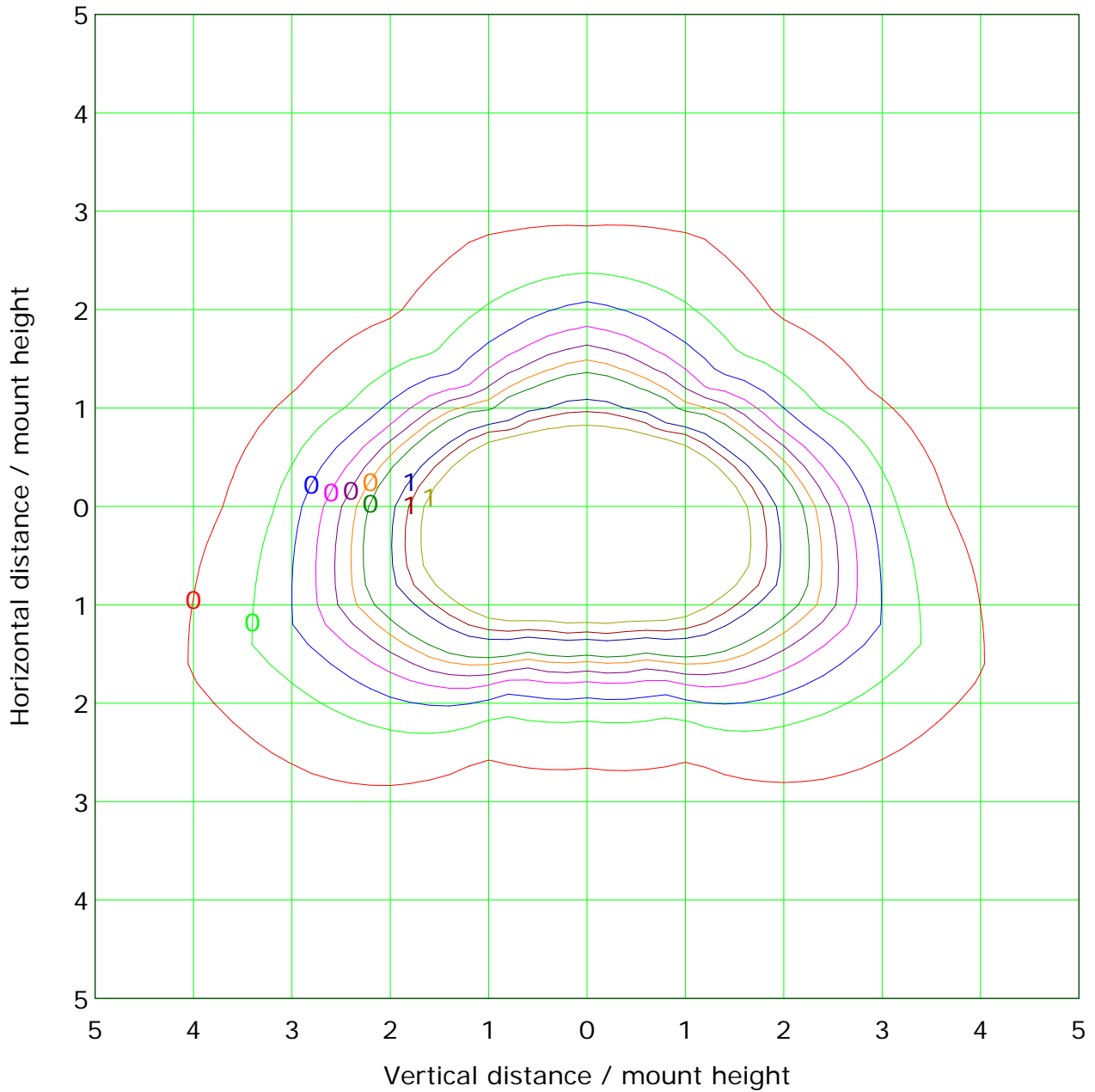
Imax (100%): 2039 cd

- | | |
|-------------------|-------------------|
| — (10%): 204 cd | — (16%): 326 cd |
| — (25%): 510 cd | — (40%): 816 cd |
| — (63%): 1285 cd | — (100%): 2039 cd |

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1600L
 Distance: 8.154 m
 Humidity:
 Inspector:

IsoLux Plot

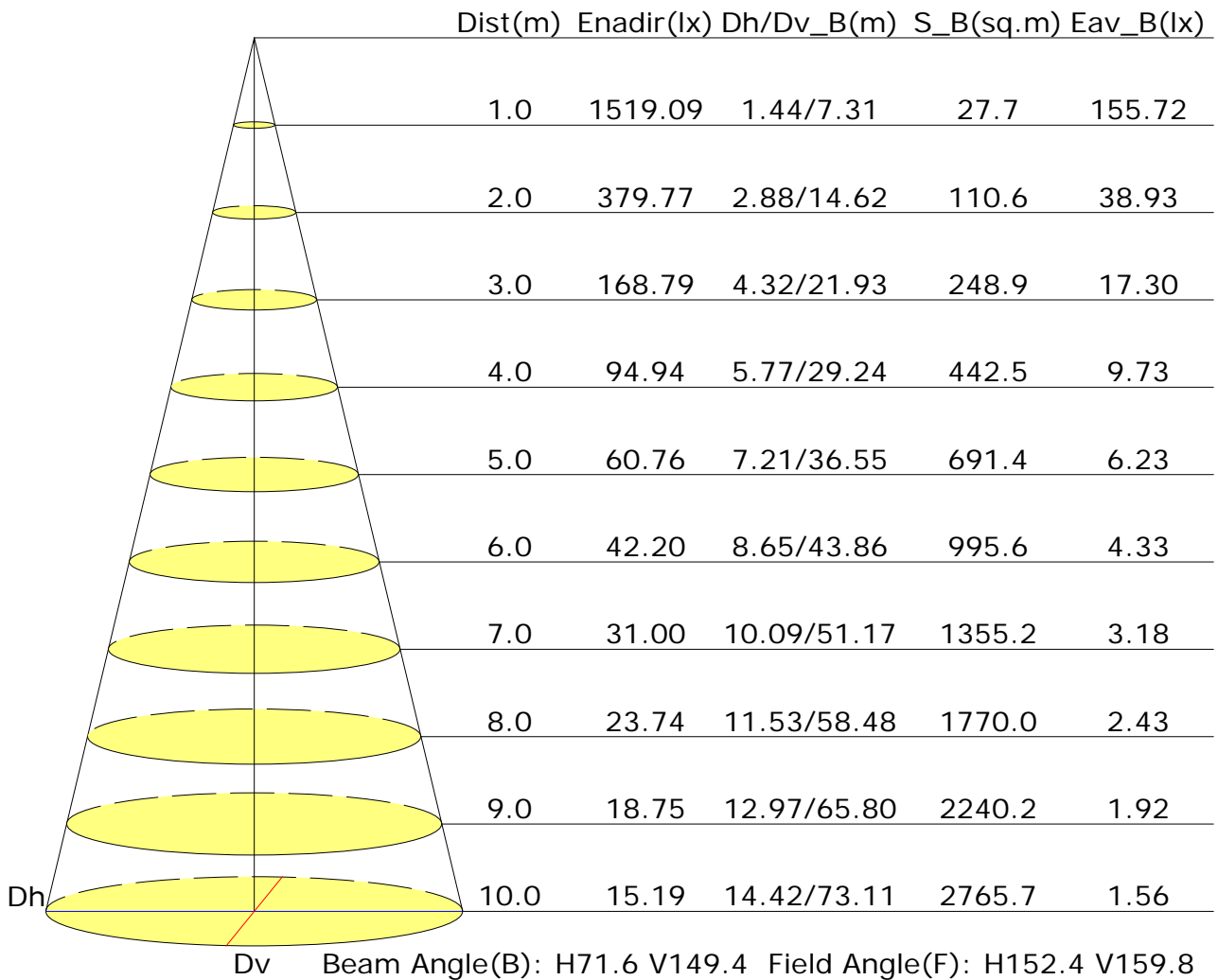


Mounting Height: 15.0m		Max Lux(100%): 7.1 lx	
— (1%):	0.1 lx	— (2%):	0.1 lx
— (3%):	0.2 lx	— (4%):	0.3 lx
— (5%):	0.4 lx	— (6%):	0.4 lx
— (7%):	0.5 lx	— (10%):	0.7 lx
— (12%):	0.9 lx	— (15%):	1.1 lx

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1600L
 Distance: 8.154 m
 Humidity:
 Inspector:

Illuminance at a Distance



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1600L
 Distance: 8.154 m
 Humidity:
 Inspector:

Area Flux Table

Unit: lm

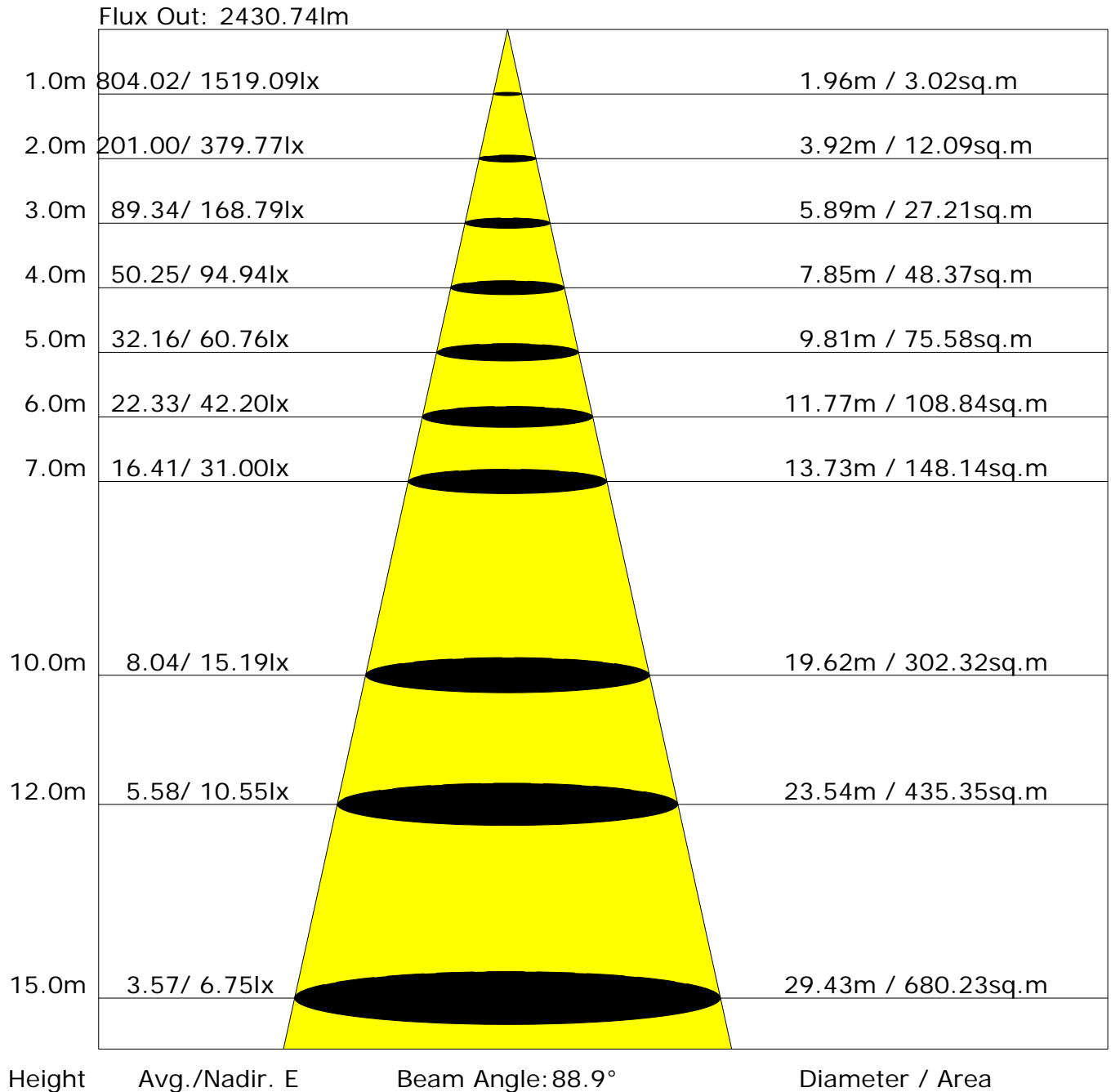
		Vertical plane																					
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90			
Flux(E)	Flux(T)	0.1	0.2	0.4	0.6	0.7	1.2	2.0	2.2	2.0	4.6	9.5	10.9	7.1	3.6	1.6	0.7	0.3	0.1	47.9	28.6		
0.0	2.1	0.1	0.3	0.9	1.9	3.2	6.3	10.3	16.1	22.9	31.0	39.2	38.8	26.6	15.7	6.7	1.7	0.4	0.1	222.1	1213.3		
	22.6	0.1	0.6	2.4	5.5	7.7	12.2	19.4	30.3	43.2	51.7	55.4	50.5	36.2	22.2	10.4	3.0	0.7	0.1	351.5	5347.7		
	82.1	0.1	0.9	4.6	7.8	9.8	14.4	23.5	35.0	47.6	55.5	58.0	51.3	38.3	24.1	11.5	3.7	1.0	0.1	387.2	384.9		
	117.7	0.1	1.3	5.6	8.7	10.9	14.7	24.4	36.4	48.8	56.4	58.3	50.9	38.9	24.1	11.4	4.4	1.3	0.1	396.6	394.9		
	147.6	0.1	1.7	6.1	9.0	11.2	14.8	23.1	35.7	47.7	55.3	56.6	49.9	38.0	23.2	11.1	5.1	1.5	0.1	390.2	388.8		
	205.2	0.1	1.9	6.6	9.1	11.0	14.8	21.9	33.7	45.2	52.6	53.5	47.8	36.0	22.0	11.9	5.7	1.6	0.2	375.7	374.4		
	321.5	0.1	2.1	6.9	9.3	11.0	14.2	21.2	32.1	43.2	50.0	50.8	45.5	34.9	22.8	12.5	5.9	1.7	0.2	364.4	363.2		
	549.2	0.1	2.1	7.1	9.4	11.0	14.1	20.7	31.5	42.2	48.8	49.5	44.9	35.4	23.1	12.5	5.9	1.8	0.2	360.3	359.1		
	821.0	0.1	2.1	7.1	9.4	11.0	14.1	20.9	31.8	42.4	48.7	49.6	45.0	35.5	23.2	12.6	6.0	1.8	0.2	361.3	360.1		
	1152.8	0.1	2.1	7.1	9.2	10.9	14.1	21.2	32.2	42.8	49.3	50.2	45.4	35.3	23.1	12.7	6.0	1.8	0.2	363.4	362.3		
	1521.0	0.1	2.0	6.6	9.1	10.9	14.5	21.4	33.0	44.1	51.2	52.2	47.0	36.0	22.4	12.1	5.7	1.7	0.2	370.2	369.0		
	210.5	0.1	1.8	6.2	9.0	11.0	14.3	22.1	34.3	45.9	53.3	54.8	48.6	37.5	23.1	11.3	5.2	1.5	0.1	380.3	378.9		
	326.4	0.1	1.4	5.8	8.7	10.8	14.1	23.0	34.4	46.6	54.3	56.5	49.6	38.0	23.7	11.4	4.5	1.3	0.1	384.5	382.8		
	449.7	0.1	0.9	4.8	8.0	9.8	13.8	22.0	32.8	45.5	53.6	56.5	50.1	37.3	23.3	11.3	3.8	1.0	0.1	374.8	372.6		
	675.4	0.1	0.6	2.6	5.7	7.8	11.7	17.9	28.4	41.5	50.4	54.7	49.9	35.3	21.2	10.1	3.1	0.7	0.1	341.7	338.0		
	821.0	0.1	0.3	1.0	2.0	3.3	6.1	9.6	15.1	21.9	30.2	38.7	38.2	25.6	14.7	6.4	1.7	0.4	0.1	215.4	206.0		
	1179.0	0.1	0.3	0.5	0.6	0.7	1.2	1.8	2.1	2.0	4.5	9.2	10.5	6.7	3.4	1.6	0.7	0.3	0.1	46.1	26.5		
	179.0	0.0	14.2	76.8	117.7	147.6	205.2	321.5	492.8	671.4	797.2	850.3	772.9	575.8	355.7	175.4	67.0	9.9	0.0			5651	

Horizontal plane

C Plane (°): 0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: 肖

Gamma Plane (°): 0.0-180.0: 5.0
 Test Device: GPM-1600L
 Distance: 8.154 m
 Humidity:
 Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1600L
 Distance: 8.154 m
 Humidity:
 Inspector:

UGR Table

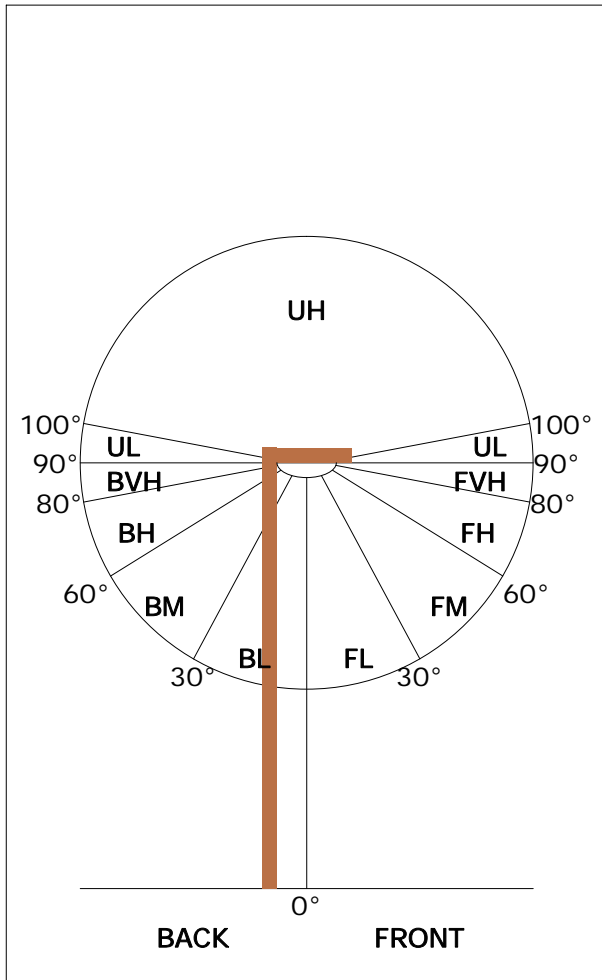
Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-1.\$	-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 5856lm ($8\log(F/F_0) = 6.1$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1600L
 Distance: 8.154 m
 Humidity:
 Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	3643	62.2
FL (0°-30°)	705	12.0
FM (30°-60°)	1758	30.0
FH (60°-80°)	1058	18.1
FVH (80°-90°)	121	2.1
BACK LIGHT	2094	35.7
BL (0°-30°)	495	8.5
BM (30°-60°)	993	17.0
BH (60°-80°)	570	9.7
BVH (80°-90°)	35	0.6
UP LIGHT	120	2.0
UL (90°-100°)	20	0.3
UH (100°-180°)	100	1.7
TRAPPED LIGHT	0	0.0

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B2 U2 G2
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B2 U2 G1

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0
 Test Device: GPM-1600L
 Distance: 8.154 m
 Humidity:
 Inspector:

Candlepower Table

Unit: cd

GVC	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G0.0	1519.1	1517.2	1517.9	1516.6	1522.1	1523.9	1526.5	1526.1	1519.1	1517.2
G5.0	1615.1	1607.6	1589.8	1558.8	1524.3	1483.5	1446.3	1417.7	1396.7	1406.5
G10.0	1672.8	1664.8	1643.1	1597.5	1526.4	1438.5	1348.9	1279.8	1235.2	1260.8
G15.0	1694.3	1690.4	1681.2	1640.0	1538.8	1395.4	1237.3	1122.5	1060.3	1103.6
G20.0	1682.9	1692.1	1713.2	1691.7	1565.4	1353.2	1121.4	961.1	883.2	942.9
G25.0	1627.8	1663.6	1734.4	1754.8	1604.3	1318.2	1002.3	804.5	725.8	791.9
G30.0	1549.9	1597.3	1743.3	1817.0	1647.3	1283.5	885.8	674.5	614.2	669.2
G35.0	1418.0	1497.3	1744.4	1875.0	1685.1	1245.7	781.2	588.4	549.3	590.1
G40.0	1250.2	1354.3	1722.3	1922.0	1712.6	1202.4	692.2	535.7	511.8	540.9
G45.0	1057.4	1195.2	1682.5	1958.8	1722.4	1148.2	624.5	507.6	505.0	512.8
G50.0	861.6	1010.7	1619.6	1980.0	1713.9	1083.3	573.7	497.2	515.8	503.3
G55.0	691.0	834.8	1523.3	1986.2	1690.6	1006.6	530.1	500.4	541.9	504.6
G60.0	555.2	673.7	1426.2	1989.5	1653.0	913.7	492.6	511.0	571.3	510.8
G65.0	446.8	533.6	1304.3	1987.5	1578.5	793.1	450.0	517.6	594.2	511.8
G70.0	353.9	424.7	1159.0	1965.8	1439.9	632.5	386.0	509.3	470.9	498.2
G75.0	191.6	309.9	991.2	1757.7	843.9	433.6	307.0	461.3	203.3	439.8
G80.0	87.9	199.6	708.0	1001.5	157.5	207.7	104.4	169.7	76.1	155.4
G85.0	35.0	74.5	169.0	369.9	37.9	47.3	31.5	46.2	39.9	44.7
G90.0	15.3	30.1	30.5	95.4	16.8	18.5	20.5	29.9	22.5	29.0
G95.0	9.6	9.7	9.7	12.0	14.1	15.9	19.1	21.1	25.9	20.7
G100.0	9.4	7.8	8.4	11.1	15.5	17.0	17.1	20.7	26.5	20.4
G105.0	10.0	8.7	8.8	12.2	17.5	18.4	17.2	18.1	20.8	17.5
G110.0	10.3	9.9	10.0	14.9	19.0	19.5	19.5	24.5	35.3	23.1
G115.0	11.3	12.1	12.5	18.9	21.2	21.0	23.2	27.0	24.5	23.1
G120.0	10.0	10.5	14.6	20.2	21.5	22.2	21.9	20.9	19.6	20.9
G125.0	10.1	11.6	14.7	20.2	22.6	22.9	23.1	20.5	19.7	21.5
G130.0	11.2	11.7	15.7	19.9	23.5	24.0	24.3	21.0	21.0	21.7
G135.0	12.2	12.5	16.4	20.4	24.3	24.9	25.1	21.9	22.6	22.6
G140.0	13.4	13.8	17.1	20.8	24.9	25.3	25.3	23.1	23.8	23.7
G145.0	14.6	15.2	17.5	21.2	25.0	25.3	25.5	24.1	24.7	24.5
G150.0	15.8	16.4	18.4	21.5	24.8	25.1	25.4	24.5	25.1	25.0
G155.0	16.8	17.5	19.2	22.0	24.6	24.9	25.6	25.2	25.3	25.3
G160.0	18.0	18.6	20.1	22.4	24.5	24.6	25.7	25.6	25.4	25.5
G165.0	19.3	19.8	21.0	22.8	24.4	24.5	25.7	25.7	25.4	25.5
G170.0	20.7	21.1	21.9	23.2	24.3	24.2	25.4	25.5	25.3	25.1
G175.0	22.3	22.4	22.9	23.5	24.3	23.8	24.9	25.0	24.7	24.5
G180.0	23.8	23.5	23.7	23.9	24.3	24.3	24.2	24.0	23.6	23.5

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0

Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector:

Candlepower Table (Continue 1)

Unit: cd

GVC	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G0.0	1517.9	1516.6	1522.1	1523.9	1526.5	1526.1	1519.1			
G5.0	1435.2	1477.4	1523.1	1563.3	1594.0	1609.5	1615.1			
G10.0	1336.7	1437.8	1535.1	1608.1	1649.4	1660.9	1672.8			
G15.0	1230.0	1403.2	1561.2	1663.1	1695.4	1686.1	1694.3			
G20.0	1119.3	1369.5	1598.3	1726.9	1733.2	1686.5	1682.9			
G25.0	1006.1	1343.3	1647.7	1799.0	1763.2	1659.8	1627.8			
G30.0	899.8	1319.1	1705.2	1872.2	1780.0	1590.1	1549.9			
G35.0	801.7	1294.2	1752.6	1937.1	1782.6	1478.2	1418.0			
G40.0	716.3	1260.4	1783.6	1989.7	1762.2	1332.5	1250.2			
G45.0	647.9	1215.4	1796.7	2022.2	1720.7	1165.8	1057.4			
G50.0	595.8	1159.2	1786.5	2036.3	1653.9	989.4	861.6			
G55.0	547.2	1082.2	1762.9	2039.3	1562.7	815.8	691.0			
G60.0	501.8	991.0	1714.5	2033.4	1464.2	662.0	555.2			
G65.0	452.3	865.7	1631.2	2007.1	1350.8	526.2	446.8			
G70.0	388.3	695.4	1477.6	1967.4	1215.8	409.9	353.9			
G75.0	298.4	467.4	881.1	1774.5	1044.3	296.5	191.6			
G80.0	99.8	227.6	167.1	1019.4	763.1	189.1	87.9			
G85.0	33.9	54.4	33.6	404.5	184.8	70.7	35.0			
G90.0	18.8	15.8	11.9	66.9	28.4	29.4	15.3			
G95.0	17.3	14.1	12.1	11.6	9.9	10.3	9.6			
G100.0	16.3	15.8	14.1	10.4	8.6	8.7	9.4			
G105.0	16.7	17.5	16.3	12.2	9.0	9.1	10.0			
G110.0	19.0	19.2	18.4	14.9	10.1	10.1	10.3			
G115.0	23.4	20.7	20.3	19.5	13.0	11.7	11.3			
G120.0	21.7	22.7	20.8	19.7	14.4	11.1	10.0			
G125.0	22.9	23.5	21.9	19.2	15.0	11.0	10.1			
G130.0	24.1	24.5	22.8	19.4	15.9	11.9	11.2			
G135.0	24.9	25.5	23.7	20.0	16.6	13.2	12.2			
G140.0	25.2	25.8	24.2	20.4	17.0	14.4	13.4			
G145.0	25.2	25.7	24.2	20.7	17.6	15.7	14.6			
G150.0	25.3	25.5	24.1	21.2	18.5	16.9	15.8			
G155.0	25.4	25.3	24.0	21.7	19.4	18.0	16.8			
G160.0	25.4	25.0	23.9	22.2	20.3	19.1	18.0			
G165.0	25.3	24.8	24.0	22.6	21.3	20.4	19.3			
G170.0	24.9	24.5	24.0	23.1	22.3	21.6	20.7			
G175.0	24.4	24.3	24.2	23.6	23.3	22.9	22.3			
G180.0	23.7	23.9	24.3	24.2	24.2	24.0	23.8			

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator: 肖肖

Gamma Plane (°):0.0-180.0:5.0

Test Device: GPM-1600L

Distance: 8.154 m

Humidity:

Inspector: