

Report No.:

Test Time: 2023-08-24 17:16

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: ADLED20W192

Luminous Length (mm): 192

Voltage: 230.2 V

Power: 20.32 W

Lamp Catalog: 4000K

Luminous Width (mm): 192

Current: 0.092 A

Power Factor: 0.955

Photometric Results

CIE Class: Direct

Measurement Flux: 2202.4 lm

Downward Ratio: 100%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 146.1, 145.8, 146.0, 146.0

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 93.4, 93.4, 93.4, 93.4

Luminaire Efficacy Rating (LER): 108.44

Max. Intensity: 997.02 cd

S/MH(C0/C180): 1.16

Total Rated Lamp Lumens: 2202.4 lm

Efficiency: 100%

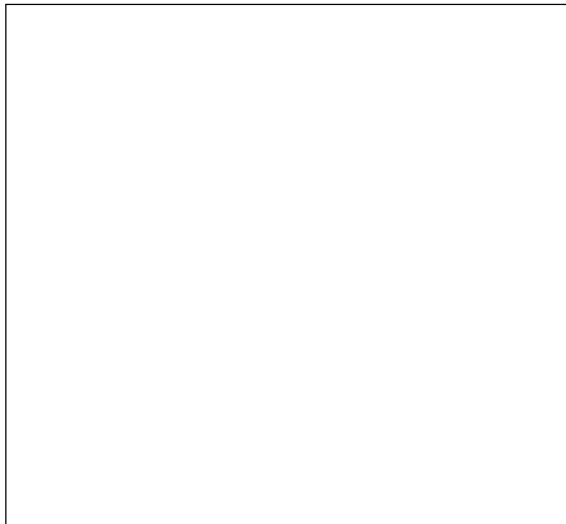
Upward Ratio: 0%

Central Intensity: 997.01 cd

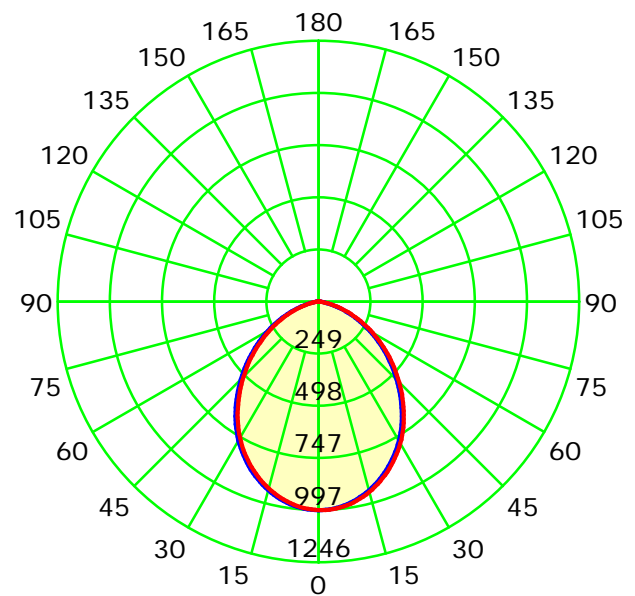
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 1.15

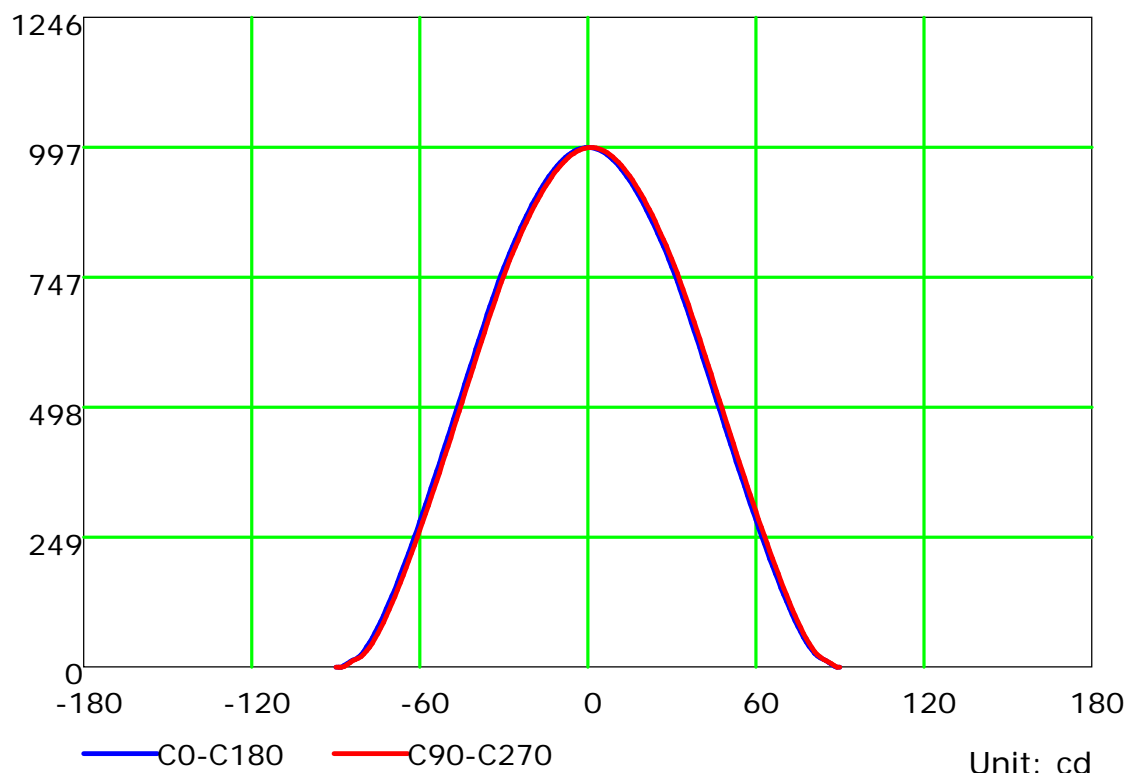
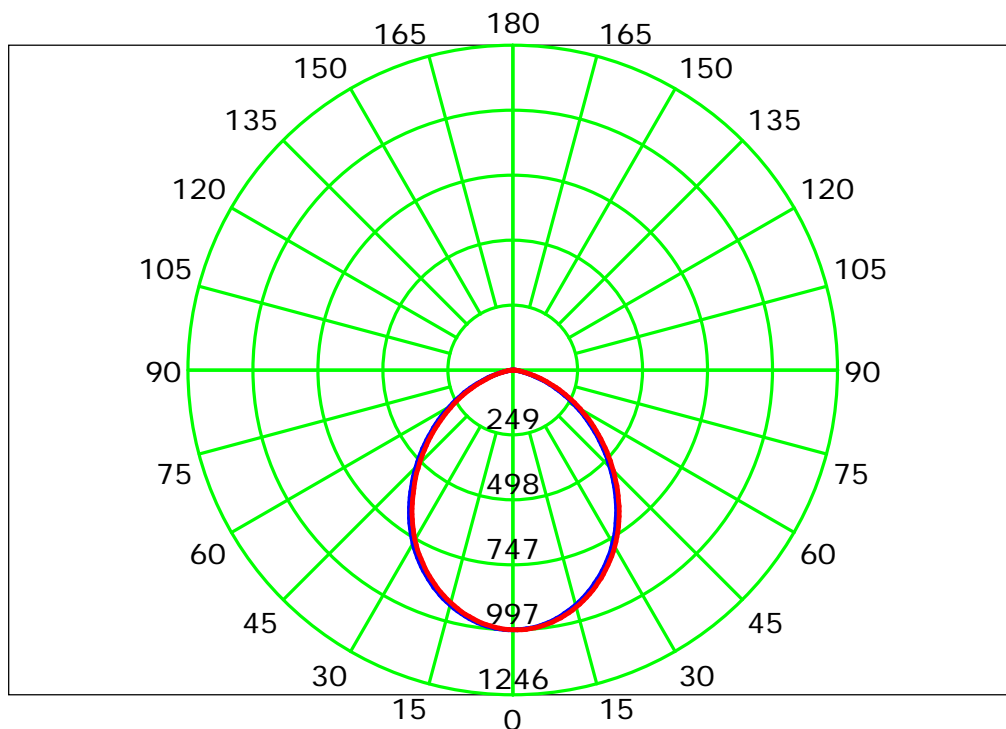
Picture Of Luminaire



Luminous Intensity Distribution Curve



Luminous Intensity Distribution Curve



C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

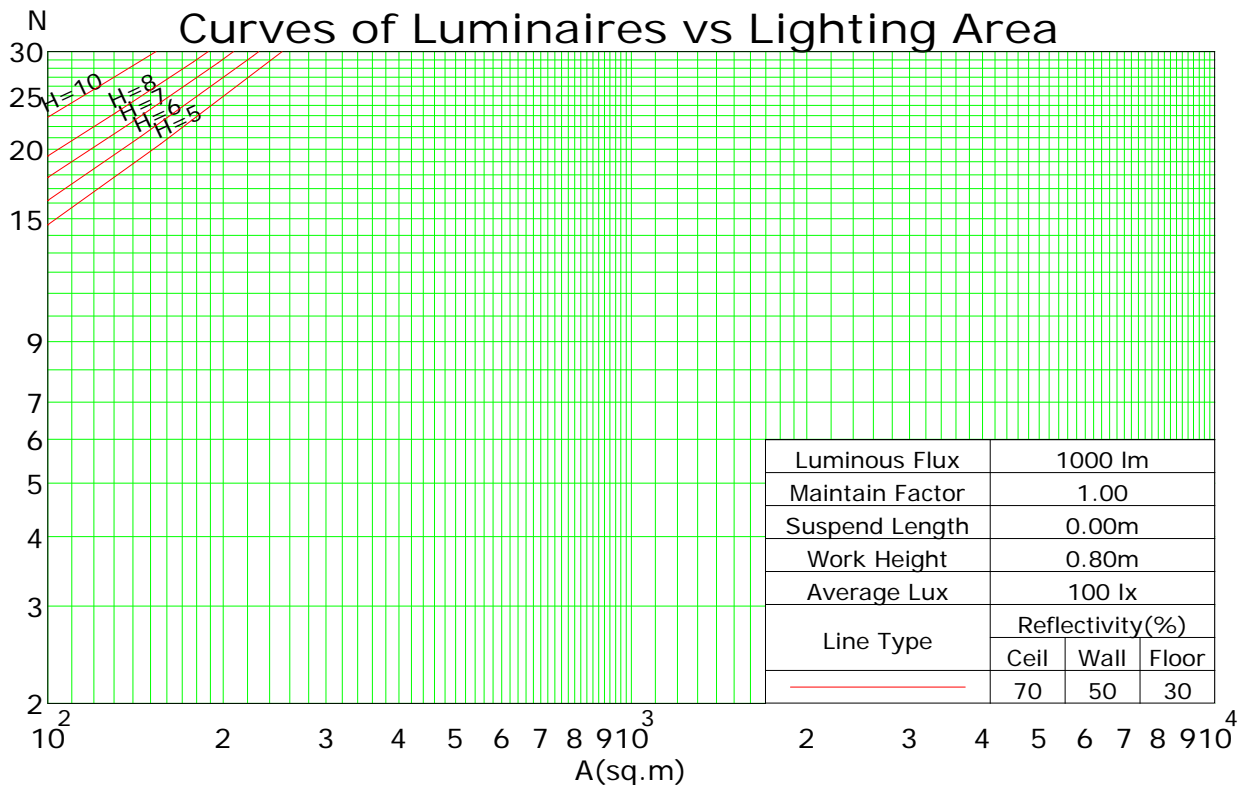
Coefficients Of Utilization - Zonal Cavity Method

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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	60	83	73	66	60	71	64	59	69	63	58	67	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	41	67	55	47	41	53	46	41	52	45	41	51	45	40	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

Spacing Criteria (0-180): 1.16

Spacing Criteria (90-270): 1.15

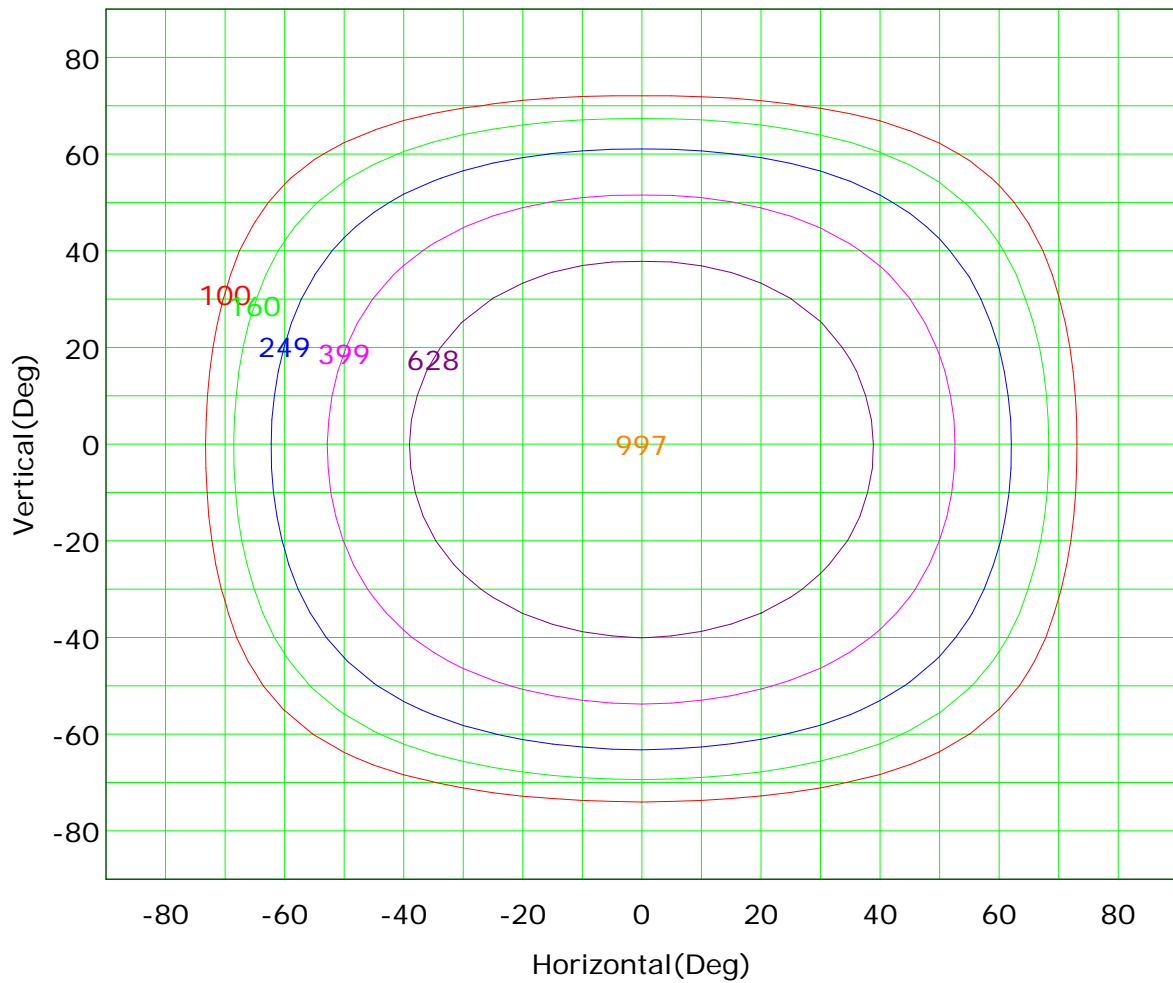
Spacing Criteria (Diagonal): 1.24



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Isocandela (rectangle)



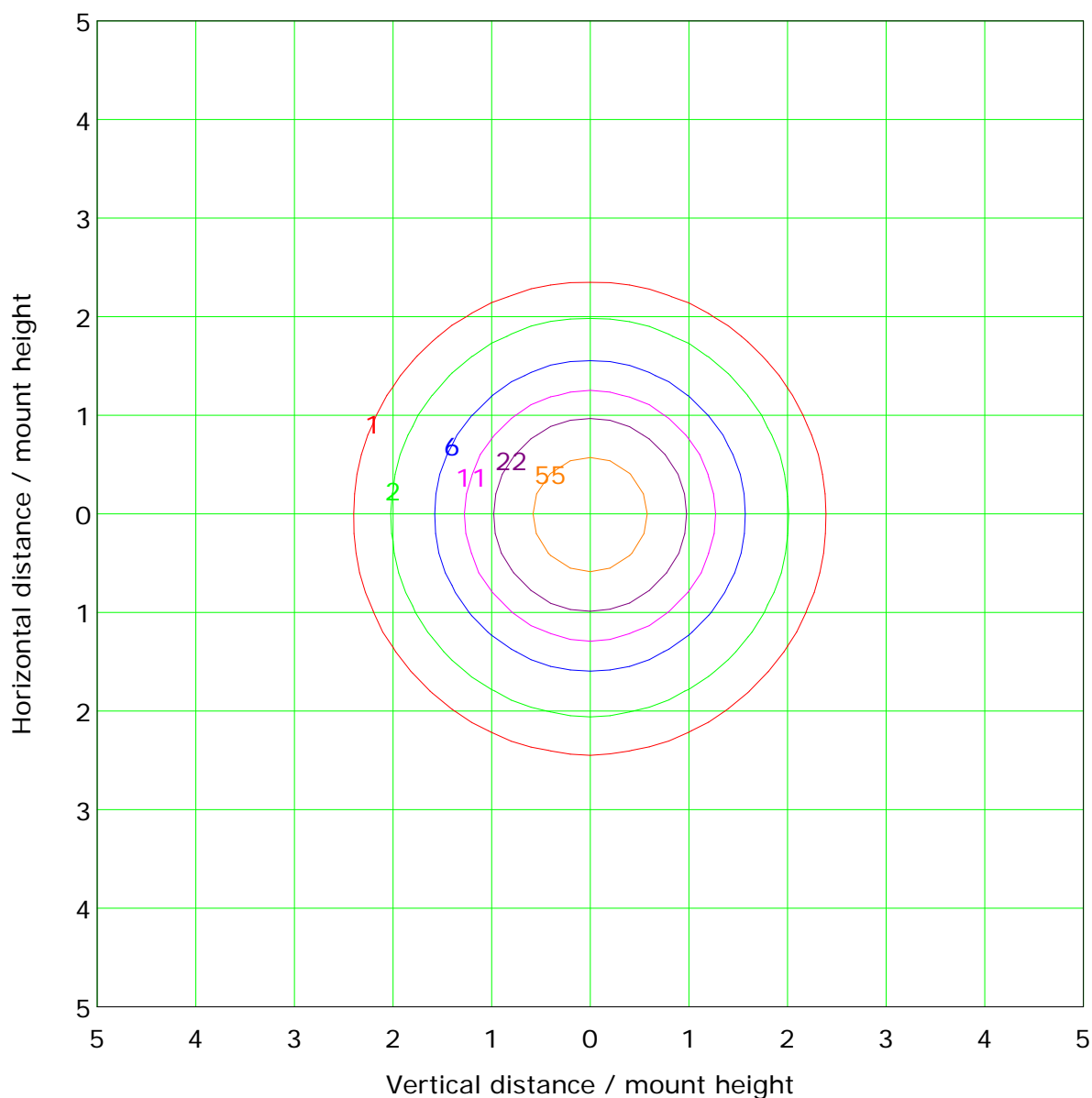
Imax (100%): 997 cd

(10%): 100 cd	(16%): 160 cd
(25%): 249 cd	(40%): 399 cd
(63%): 628 cd	(100%): 997 cd

C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

IsoLux Plot



Mounting Height: 3.0m Max Lux(100%): 110.8 lx

(1%): 1.1 lx	(2%): 2.2 lx
(5%): 5.5 lx	(10%): 11.1 lx
(20%): 22.2 lx	(50%): 55.4 lx
(100%): 110.8 lx	

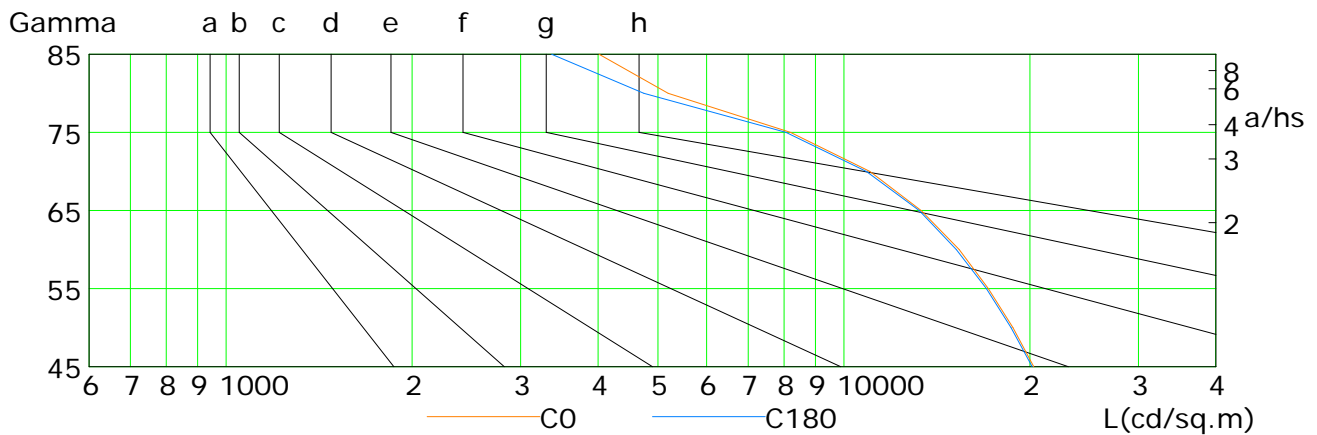
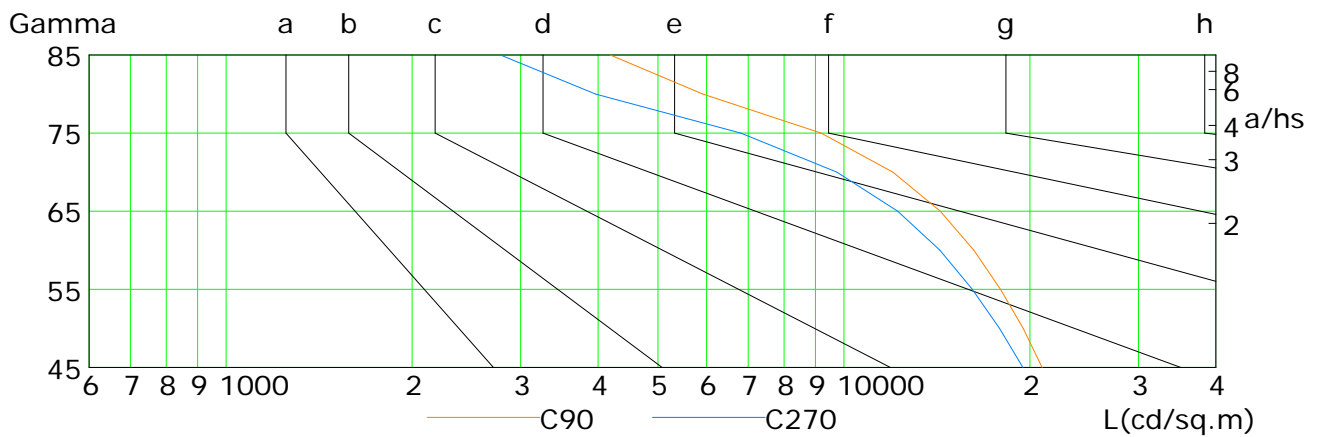
C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 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

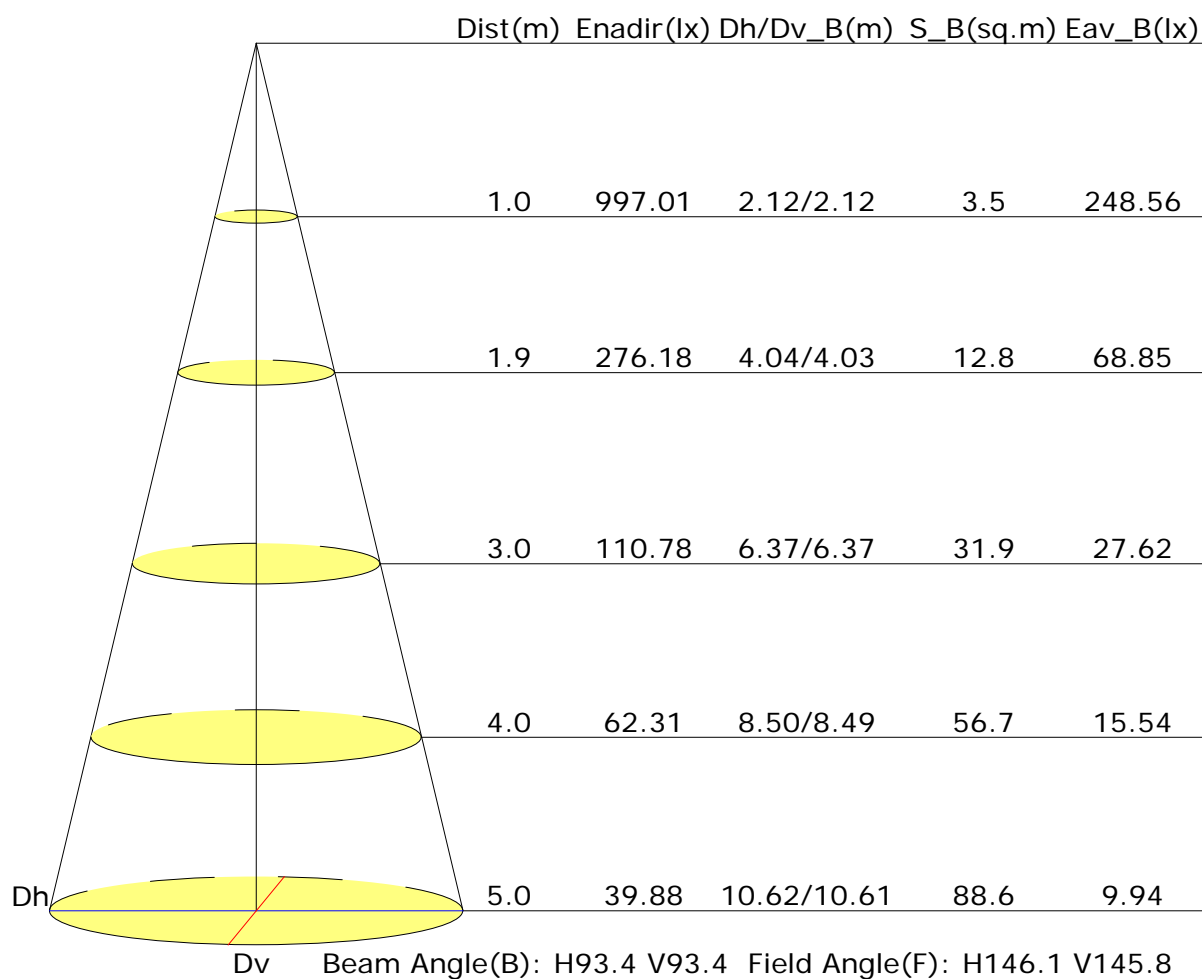


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	20292	18784	17140	15371	13341	11019	8201	5197	4018
C90	20947	19511	17939	16242	14327	12016	9197	5914	4186
C180	20180	18659	17017	15201	13240	10875	8062	4746	3365
C270	19492	17867	16151	14315	12228	9741	6816	3965	2783

C Plane (°): 0.0-360.0: 90.0
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Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

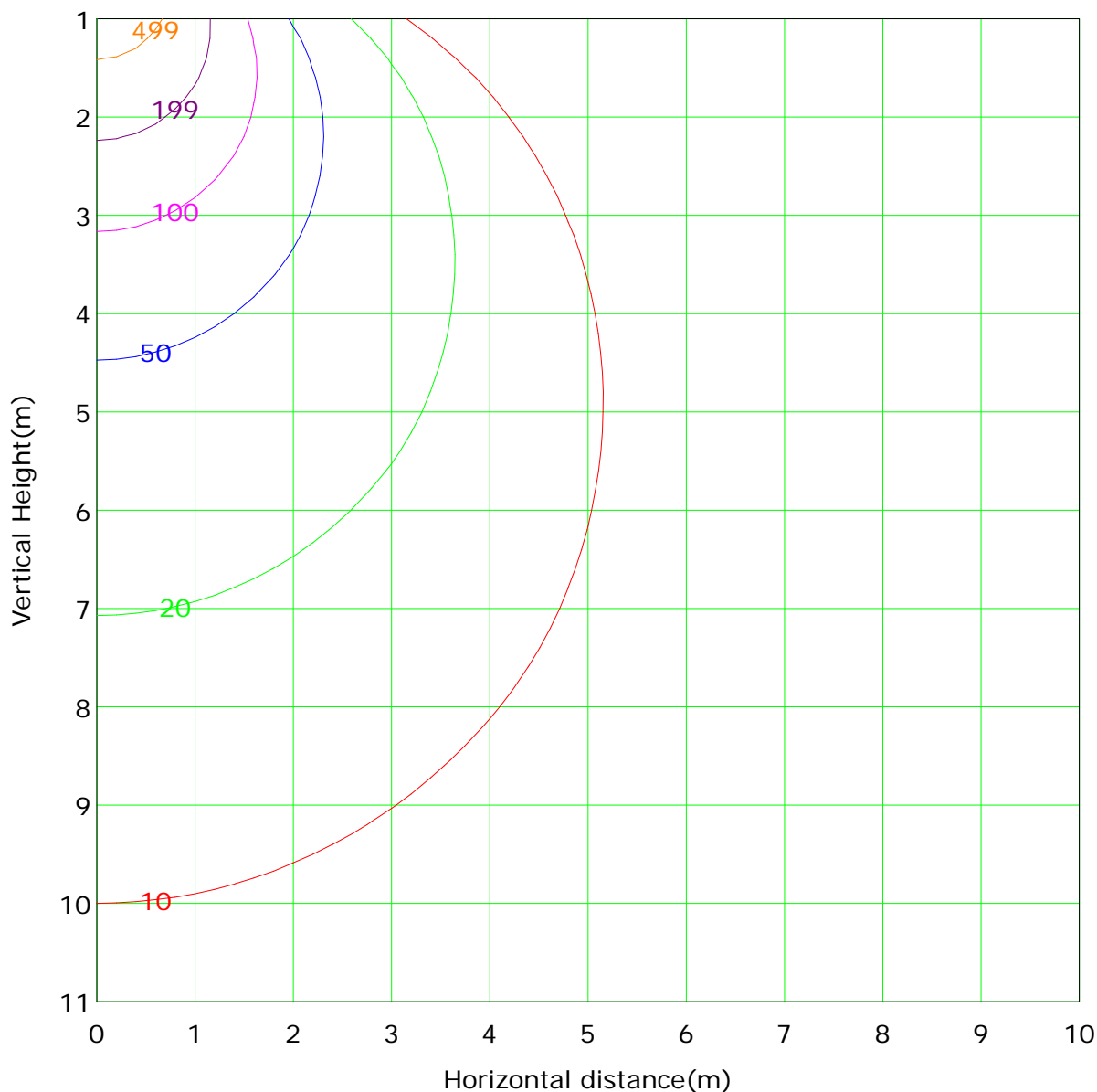
Illuminance at a Distance



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 997.0 lx

(1%): 10.0 lx	(2%): 19.9 lx
(5%): 49.9 lx	(10%): 99.7 lx
(20%): 199.4 lx	(50%): 498.5 lx
(100%): 997.0 lx	

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Area Flux Table

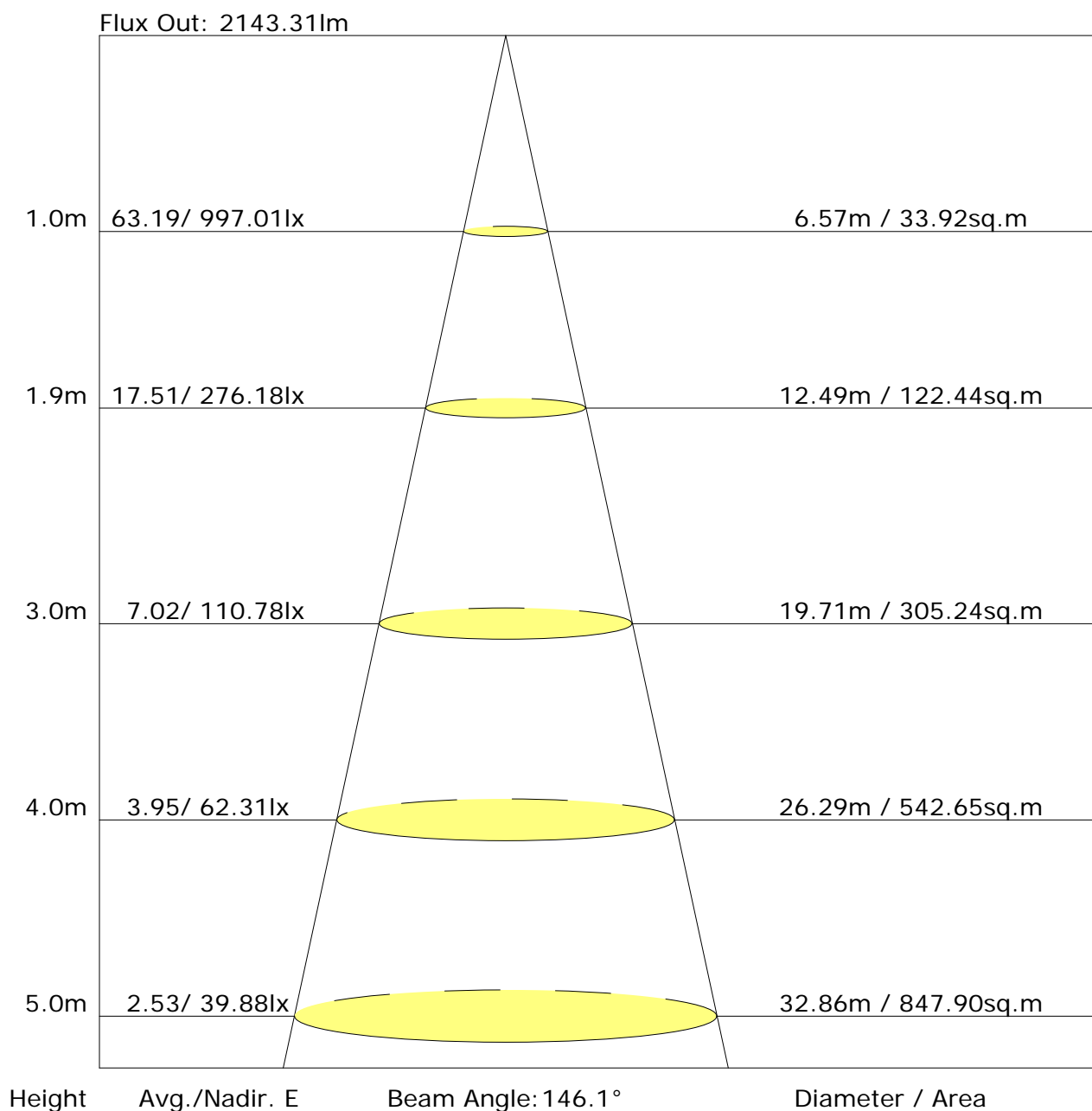
Unit: lm

Vertical plane																			Horizontal plane																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
Flux(E)	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	51.0	51.1	51.2	51.3	51.4	51.5	51.6	51.7	51.8	51.9	52.0	52.1	52.2	52.3	52.4	52.5	52.6	52.7	52.8	52.9	53.0	53.1	53.2	53.3	53.4	53.5	53.6	53.7	53.8	53.9	54.0	54.1	54.2	54.3	54.4	54.5	54.6	54.7	54.8	54.9	55.0	55.1	55.2	55.3	55.4	55.5	55.6	55.7	55.8	55.9	56.0	56.1	56.2	56.3	56.4	56.5	56.6	56.7	56.8	56.9	57.0	57.1	57.2	57.3	57.4	57.5	57.6	57.7	57.8	57.9	58.0	58.1	58.2	58.3	58.4	58.5	58.6	58.7	58.8	58.9	59.0	59.1	59.2	59.3	59.4	59.5	59.6	59.7	59.8	59.9	60.0	60.1	60.2	60.3	60.4	60.5	60.6	60.7	60.8	60.9	61.0	61.1	61.2	61.3	61.4	61.5	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7	68.8	68.9	69.0	69.1	69.2	69.3	69.4	69.5	69.6	69.7	69.8	69.9	70.0	70.1	70.2	70.3	70.4	70.5	70.6	70.7	70.8	70.9	71.0	71.1	71.2	71.3	71.4	71.5	71.6	71.7	71.8	71.9	72.0	72.1	72.2	72.3	72.4	72.5	72.6	72.7	72.8	72.9	73.0	73.1	73.2	73.3	73.4	73.5	73.6	73.7	73.8	73.9	74.0	74.1	74.2	74.3	74.4	74.5	74.6	74.7	74.8	74.9	75.0	75.1	75.2	75.3	75.4	75.5	75.6	75.7	75.8	75.9	76.0	76.1	76.2	76.3	76.4	76.5	76.6	76.7	76.8	76.9	77.0	77.1	77.2	77.3	77.4	77.5	77.6	77.7	77.8	77.9	78.0	78.1	78.2	78.3	78.4	78.5	78.6	78.7	78.8	78.9	79.0	79.1	79.2	79.3	79.4	79.5	79.6	79.7	79.8	79.9	80.0	80.1	80.2	80.3	80.4	80.5	80.6	80.7	80.8	80.9	81.0	81.1	81.2	81.3	81.4	81.5	81.6	81.7	81.8	81.9	82.0	82.1	82.2	82.3	82.4	82.5	82.6	82.7	82.8	82.9	83.0	83.1	83.2	83.3	83.4	83.5	83.6	83.7	83.8	83.9	84.0	84.1	84.2	84.3	84.4	84.5	84.6	84.7	84.8	84.9	85.0	85.1	85.2	85.3	85.4	85.5	85.6	85.7	85.8	85.9	86.0	86.1	86.2	86.3	86.4	86.5	86.6	86.7	86.8	86.9	87.0	87.1	87.2	87.3	87.4	87.5	87.6	87.7	87.8	87.9	88.0	88.1	88.2	88.3	88.4	88.5	88.6	88.7	88.8	88.9	89.0	89.1	89.2	89.3	89.4	89.5	89.6	89.7	89.8	89.9	90.0	90.1	90.2	90.3	90.4	90.5	90.6	90.7	90.8	90.9	91.0	91.1	91.2	91.3	91.4	91.5	91.6	91.7	91.8	91.9	92.0	92.1	92.2	92.3	92.4	92.5	92.6	92.7	92.8	92.9	93.0	93.1	93.2	93.3	93.4	93.5	93.6	93.7	93.8	93.9	94.0	94.1	94.2	94.3	94.4	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.6	96.7	96.8	96.9	97.0	97.1	97.2	97.3	97.4	97.5	97.6	97.7	97.8	97.9	98.0	98.1	98.2	98.3	98.4	98.5	98.6	98.7	98.8	98.9	99.0	99.1	99.2	99.3	99.4	99.5	99.6	99.7	99.8	99.9	100.0	100.1	100.2	100.3	100.4	100.5	100.6	100.7	100.8	100.9	101.0	101.1	101.2	101.3	101.4	101.5	101.6	101.7	101.8	101.9	102.0	102.1	102.2	102.3	102.4	102.5	102.6	102.7	102.8	102.9	103.0	103.1	103.2	103.3	103.4	103.5	103.6	103.7	103.8	103.9	104.0	104.1	104.2	104.3	104.4	104.5	104.6	104.7	104.8	104.9	105.0	105.1	105.2	105.3	105.4	105.5	105.6	105.7	105.8	105.9	106.0	106.1	106.2	106.3	106.4	106.5	106.6	106.7	106.8	106.9	107.0	107.1	107.2	107.3	107.4	107.5	107.6	107.7	107.8	107.9	108.0	108.1	108.2	108.3	108.4	108.5	108.6	108.7	108.8	108.9	109.0	109.1	109.2	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8	111.9	112.0	112.1	112.2	112.3	112.4	112.5	112.6	112.7	112.8	112.9	113.0	113.1	113.2	113.3	113.4	113.5	113.6	113.7	113.8	113.9	114.0	114.1	114.2	114.3	114.4	114.5	114.6	114.7	114.8	114.9	115.0	115.1	115.2	115.3	115.4	115.5	115.6	115.7	115.8	115.9	116.0	116.1	116.2	116.3	116.4	116.5	116.6	116.7	116.8	116.9	117.0	117.1	117.2	117.3	117.4	117.5	117.6	117.7	117.8	117.9	118.0	118.1	118.2	118.3	118.4	118.5	118.6	118.7	118.8	118.9	119.0	119.1	119.2	119.3	119.4	119.5	119.6	119.7	119.8	119.9	120.0	120.1	120.2	120.3	120.4	120.5	120.6	120.7	120.8	120.9	121.0	121.1	121.2	121.3	121.4	121.5	121.6	121.7	121.8	121.9	122.0	122.1	122.2	122.3	122.4	122.5	122.6	122.7	122.8	122.9	123.0	123.1	123.2	123.3	123.4	123.5	123.6	123.7	123.8	123.9	124.0	124.1	124.2	124.3	124.4	124.5	124.6	124.7	124.8	124.9	125.0	125.1	125.2	125.3	125.4	125.5	125.6	125.7	125.8	125.9	126.0	126.1	126.2	126.3	126.4	126.5	126.6	126.7	126.8	126.9	127.0	127.1	127.2	127.3	127.4	127.5	127.6	127.7	127.8	127.9	128.0	128.1	128.2	128.3	128.4	128.5	128.6	128.7	128.8	128.9	129.0	129.1	129.2	129.3	129.4	129.5	129.6	129.7	129.8	129.9	130.0	130.1	130.2	130.3	130.4	130.5	130.6	130.7	130.8	130.9	131.0	

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

The Average Illuminance Effective Figure



C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 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	22.2	23.5	22.5	23.7	23.9	22.2	23.5	22.5	23.7	23.9
3H	23.2	24.3	23.5	24.6	24.8	23.1	24.3	23.5	24.6	24.8
4H	23.4	24.5	23.8	24.8	25.1	23.4	24.5	23.7	24.8	25.1
6H	23.5	24.5	23.9	24.8	25.1	23.5	24.5	23.8	24.8	25.1
8H	23.5	24.5	23.9	24.8	25.1	23.5	24.4	23.8	24.8	25.1
12H	23.5	24.4	23.9	24.7	25.1	23.5	24.4	23.8	24.7	25.0
X=4H Y=2H	22.7	23.8	23.0	24.0	24.3	22.7	23.8	23.0	24.0	24.3
3H	23.8	24.7	24.2	25.0	25.4	23.8	24.7	24.1	25.0	25.4
4H	24.1	24.9	24.5	25.3	25.7	24.1	24.9	24.5	25.3	25.6
6H	24.3	25.0	24.7	25.4	25.8	24.2	25.0	24.7	25.3	25.7
8H	24.3	24.9	24.7	25.3	25.8	24.2	24.9	24.7	25.3	25.7
12H	24.3	24.9	24.7	25.3	25.7	24.2	24.8	24.7	25.3	25.7
X=8H Y=4H	24.2	24.9	24.6	25.3	25.7	24.2	24.9	24.6	25.3	25.7
6H	24.4	24.9	24.9	25.4	25.8	24.4	24.9	24.9	25.4	25.8
8H	24.5	24.9	24.9	25.4	25.9	24.4	24.9	24.9	25.3	25.8
12H	24.5	24.9	25.0	25.4	25.9	24.4	24.9	24.9	25.3	25.8
X=12H Y=4H	24.2	24.8	24.6	25.2	25.7	24.2	24.8	24.6	25.2	25.6
6H	24.4	24.9	24.9	25.3	25.8	24.4	24.8	24.9	25.3	25.8
8H	24.5	24.9	25.0	25.3	25.8	24.4	24.8	24.9	25.3	25.8
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.3					+0.3/-0.4				
S=1.5H	+0.5/-0.8					+0.5/-1.0				
S=2.0H	+1.0/-1.5					+0.9/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 2202Im ($8\log(F/F_0) = 2.7$).

C Plane (°): 0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
Test Device: GPM-1600
Distance: 8.350 m
Humidity: 50%
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.63	0.73	0.80	0.85	0.92	0.96	0.99	1.03	1.06
	0.30		0.56	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03
	0.20		0.50	0.61	0.68	0.74	0.82	0.87	0.91	0.97	1.00
0.50	0.50	0.20	0.61	0.71	0.78	0.82	0.89	0.93	0.96	0.99	1.02
	0.30		0.55	0.65	0.72	0.77	0.84	0.89	0.92	0.96	0.99
	0.20		0.50	0.60	0.67	0.73	0.80	0.85	0.89	0.94	0.97
0.30	0.50	0.20	0.60	0.69	0.75	0.80	0.86	0.90	0.92	0.96	0.98
	0.30		0.54	0.64	0.71	0.75	0.82	0.86	0.89	0.93	0.96
	0.20		0.50	0.60	0.67	0.72	0.79	0.83	0.87	0.91	0.94
0.00	0.00	0.00	0.48	0.57	0.64	0.69	0.75	0.80	0.83	0.87	0.89
<p>Rating:OW Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.91	0.74	0.62	0.54	0.42	0.35	0.30	0.23	0.18
	0.30		0.76	0.63	0.54	0.48	0.38	0.32	0.27	0.21	0.18
	0.20		0.65	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17
0.50	0.50	0.20	0.88	0.71	0.59	0.51	0.40	0.37	0.28	0.22	0.17
	0.30		0.74	0.61	0.53	0.46	0.37	0.31	0.26	0.20	0.17
	0.20		0.64	0.54	0.47	0.42	0.34	0.28	0.25	0.19	0.16
0.30	0.50	0.20	0.85	0.68	0.57	0.49	0.38	0.31	0.27	0.20	0.17
	0.30		0.73	0.60	0.51	0.44	0.35	0.29	0.25	0.19	0.16
	0.20		0.64	0.53	0.46	0.41	0.33	0.28	0.24	0.19	0.15
0.00	0.00	0.00	0.53	0.43	0.36	0.32	0.25	0.21	0.18	0.13	0.11
<p>Rating:OW Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.22
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.15	0.16	0.16	0.17	0.18	0.18	0.19	0.19	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA
Rating:OW Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	996.6	1.0	1.0	0.04	0.04
1.0-2.0	996.1	2.9	3.8	0.13	0.17
2.0-3.0	994.9	4.8	8.6	0.22	0.39
3.0-4.0	993.1	6.6	15.2	0.30	0.69
4.0-5.0	990.8	8.5	23.7	0.39	1.08
5.0-6.0	987.9	10.4	34.1	0.47	1.55
6.0-7.0	984.4	12.2	46.3	0.55	2.10
7.0-8.0	980.2	14.0	60.4	0.64	2.74
8.0-9.0	975.6	15.8	76.2	0.72	3.46
9.0-10.0	970.4	17.6	93.8	0.80	4.26
10.0-11.0	964.7	19.3	113.0	0.88	5.13
11.0-12.0	958.4	21.0	134.0	0.95	6.08
12.0-13.0	951.7	22.6	156.6	1.03	7.11
13.0-14.0	944.5	24.2	180.8	1.10	8.21
14.0-15.0	936.9	25.7	206.5	1.17	9.38
15.0-16.0	928.8	27.2	233.7	1.24	10.61
16.0-17.0	920.2	28.7	262.4	1.30	11.91
17.0-18.0	911.3	30.0	292.4	1.36	13.28
18.0-19.0	901.8	31.4	323.8	1.42	14.70
19.0-20.0	892.1	32.7	356.4	1.48	16.18
20.0-21.0	881.9	33.9	390.3	1.54	17.72
21.0-22.0	871.3	35.0	425.3	1.59	19.31
22.0-23.0	860.4	36.1	461.4	1.64	20.95
23.0-24.0	849.1	37.1	498.6	1.69	22.64
24.0-25.0	837.4	38.1	536.6	1.73	24.37
25.0-26.0	825.4	39.0	575.6	1.77	26.14
26.0-27.0	813.1	39.8	615.4	1.81	27.94
27.0-28.0	800.6	40.5	655.9	1.84	29.78
28.0-29.0	787.7	41.2	697.2	1.87	31.65
29.0-30.0	774.4	41.8	739.0	1.90	33.55
30.0-31.0	760.6	42.3	781.3	1.92	35.47
31.0-32.0	746.1	42.8	824.0	1.94	37.42
32.0-33.0	731.2	43.1	867.1	1.96	39.37
33.0-34.0	716.0	43.3	910.5	1.97	41.34
34.0-35.0	700.4	43.5	954.0	1.98	43.31
35.0-36.0	684.6	43.6	997.6	1.98	45.29

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	668.5	43.6	1041.2	1.98	47.27
37.0-38.0	652.3	43.5	1084.7	1.98	49.25
38.0-39.0	636.0	43.4	1128.1	1.97	51.22
39.0-40.0	619.3	43.2	1171.3	1.96	53.18
40.0-41.0	602.6	42.9	1214.3	1.95	55.13
41.0-42.0	585.9	42.6	1256.8	1.93	57.07
42.0-43.0	569.3	42.2	1299.0	1.92	58.98
43.0-44.0	552.5	41.7	1340.7	1.89	60.87
44.0-45.0	535.6	41.2	1381.9	1.87	62.74
45.0-46.0	518.7	40.6	1422.4	1.84	64.59
46.0-47.0	501.8	39.9	1462.4	1.81	66.40
47.0-48.0	485.1	39.2	1501.6	1.78	68.18
48.0-49.0	468.2	38.5	1540.0	1.75	69.92
49.0-50.0	451.5	37.7	1577.7	1.71	71.63
50.0-51.0	434.8	36.8	1614.5	1.67	73.30
51.0-52.0	418.2	35.9	1650.4	1.63	74.93
52.0-53.0	401.6	34.9	1685.3	1.59	76.52
53.0-54.0	385.1	33.9	1719.3	1.54	78.06
54.0-55.0	368.9	32.9	1752.2	1.50	79.56
55.0-56.0	352.8	31.9	1784.1	1.45	81.01
56.0-57.0	336.9	30.8	1814.9	1.40	82.40
57.0-58.0	321.0	29.7	1844.6	1.35	83.75
58.0-59.0	305.2	28.5	1873.1	1.30	85.05
59.0-60.0	289.5	27.4	1900.5	1.24	86.29
60.0-61.0	273.9	26.1	1926.6	1.19	87.48
61.0-62.0	258.7	24.9	1951.6	1.13	88.61
62.0-63.0	243.6	23.7	1975.3	1.08	89.69
63.0-64.0	228.5	22.4	1997.7	1.02	90.70
64.0-65.0	214.0	21.2	2018.9	0.96	91.67
65.0-66.0	199.7	19.9	2038.8	0.90	92.57
66.0-67.0	185.4	18.6	2057.4	0.85	93.42
67.0-68.0	171.3	17.3	2074.8	0.79	94.20
68.0-69.0	157.3	16.1	2090.8	0.73	94.93
69.0-70.0	144.0	14.8	2105.6	0.67	95.60
70.0-71.0	131.2	13.6	2119.2	0.62	96.22
71.0-72.0	118.3	12.3	2131.5	0.56	96.78

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25°C
 Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600
 Distance: 8.350 m
 Humidity: 50%
 Inspector:

Zonal Lumen (Continue 2)

[illegible]

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 8.350 m
Humidity: 50%
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	997.0	996.5	997.0	996.5	997.0					
G1.0	996.9	996.8	996.8	995.3	996.9					
G2.0	996.0	996.7	995.8	994.1	996.0					
G3.0	994.1	996.0	994.5	992.0	994.1					
G4.0	992.3	994.4	992.3	989.3	992.3					
G5.0	989.9	992.4	989.7	985.9	989.9					
G6.0	986.8	989.7	986.5	982.3	986.8					
G7.0	982.6	986.8	982.8	977.6	982.6					
G8.0	978.6	982.7	978.5	972.4	978.6					
G9.0	973.4	978.7	973.3	967.1	973.4					
G10.0	968.4	973.6	967.5	961.0	968.4					
G11.0	962.0	968.6	961.7	954.4	962.0					
G12.0	955.1	962.4	955.2	948.0	955.1					
G13.0	948.6	956.1	948.3	940.0	948.6					
G14.0	941.1	949.1	941.4	931.4	941.1					
G15.0	933.6	941.9	932.9	923.7	933.6					
G16.0	924.9	933.9	924.5	915.0	924.9					
G17.0	916.2	925.2	916.1	905.9	916.2					
G18.0	907.2	916.7	906.7	896.1	907.2					
G19.0	897.5	908.0	896.4	886.3	897.5					
G20.0	887.3	898.2	887.3	875.5	887.3					
G21.0	876.9	888.2	876.6	865.3	876.9					
G22.0	866.0	877.9	866.0	853.7	866.0					
G23.0	855.0	867.6	854.3	842.4	855.0					
G24.0	843.7	856.2	843.1	830.3	843.7					
G25.0	831.9	844.7	831.0	818.3	831.9					
G26.0	819.9	832.3	819.1	805.8	819.9					
G27.0	807.5	820.6	806.4	793.1	807.5					
G28.0	795.1	808.5	793.4	780.2	795.1					
G29.0	781.6	795.7	780.8	766.4	781.6					
G30.0	768.0	782.9	767.7	751.8	768.0					
G31.0	754.3	769.1	753.3	737.4	754.3					
G32.0	739.3	755.1	738.7	721.7	739.3					
G33.0	724.8	740.4	723.3	706.5	724.8					
G34.0	709.1	725.1	708.3	690.6	709.1					
G35.0	693.4	709.2	692.6	674.9	693.4					
G36.0	677.3	694.5	676.7	658.4	677.3					

C Plane (°): 0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°): 0.0-90.0: 1.0
Test Device: GPM-1600
Distance: 8.350 m
Humidity: 50%
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	661.3	678.3	659.6	642.0	661.3					
G38.0	645.1	662.5	644.0	625.4	645.1					
G39.0	629.0	645.8	627.3	608.7	629.0					
G40.0	612.2	629.7	610.4	591.7	612.2					
G41.0	595.4	612.9	593.0	575.4	595.4					
G42.0	578.6	596.7	577.3	558.2	578.6					
G43.0	562.3	579.5	560.1	542.0	562.3					
G44.0	544.9	563.2	543.1	524.5	544.9					
G45.0	529.0	546.0	526.0	508.1	529.0					
G46.0	511.4	529.0	509.1	490.9	511.4					
G47.0	495.3	512.1	492.5	474.2	495.3					
G48.0	478.2	495.6	475.7	457.1	478.2					
G49.0	461.1	479.0	459.1	440.0	461.1					
G50.0	445.1	462.3	442.1	423.4	445.1					
G51.0	427.8	445.2	425.7	407.1	427.8					
G52.0	411.4	429.0	409.2	390.5	411.4					
G53.0	394.7	412.0	392.0	373.8	394.7					
G54.0	378.8	395.6	376.4	357.6	378.8					
G55.0	362.4	379.3	359.8	341.5	362.4					
G56.0	346.5	362.9	344.3	325.5	346.5					
G57.0	330.5	347.1	328.2	310.3	330.5					
G58.0	314.2	331.2	312.1	294.7	314.2					
G59.0	298.9	315.0	296.4	279.3	298.9					
G60.0	283.3	299.4	280.2	263.9	283.3					
G61.0	267.8	283.6	264.5	248.9	267.8					
G62.0	252.4	268.6	250.3	233.8	252.4					
G63.0	237.6	253.0	234.2	218.8	237.6					
G64.0	222.7	238.2	219.0	204.1	222.7					
G65.0	207.9	223.2	206.3	190.5	207.9					
G66.0	194.0	208.4	191.6	175.8	194.0					
G67.0	179.9	194.0	177.5	162.0	179.9					
G68.0	166.0	179.7	162.4	148.6	166.0					
G69.0	152.1	165.6	148.7	135.3	152.1					
G70.0	138.9	151.5	137.1	122.8	138.9					
G71.0	126.2	138.4	124.5	110.1	126.2					
G72.0	113.2	124.5	111.8	97.7	113.2					
G73.0	101.4	112.1	99.7	86.2	101.4					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature: 25°C

Operator: XU

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600

Distance: 8.350 m

Humidity: 50%

Inspector:

Unit: cd

C Plane (°): 0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature: 25°C
Operator: XU

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600
Distance: 8.350 m
Humidity: 50%
Inspector: