

Report No.: 20230310

Test Time: 2023/3/13 16:15

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: Acolyte

Luminaire Description: Scroll 80S pendants fixture Static White 0.3A

Lamp Catalog: 2 ROWS

Luminous Width (mm): 80

Voltage: 32.7 V

Power: 9.80 W

Luminous Length (mm): 300

Luminous Height (mm): 30

Current: 0.300 A

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 793 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(10%,50%): H159.8,H105.4

Vertical Diffuse Angle(10%,50%): V159.4,V105.6

Luminaire Efficacy Rating (LER): 81

Max. Intensity: 295.74 cd

Total Rated Lamp Lumens: 793.0 lm

Efficiency: 100%

Upward Ratio: 2%

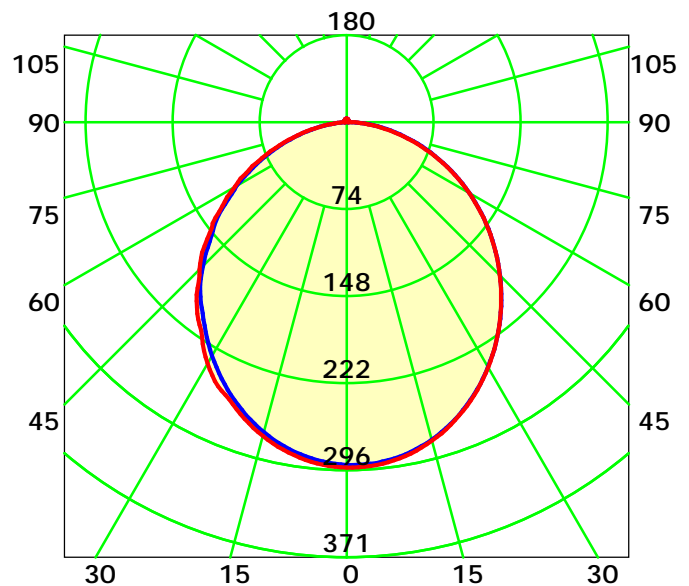
Central Intensity: 292.32 cd

Pos of Max. Intensity: H150 V1

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 105.5° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0

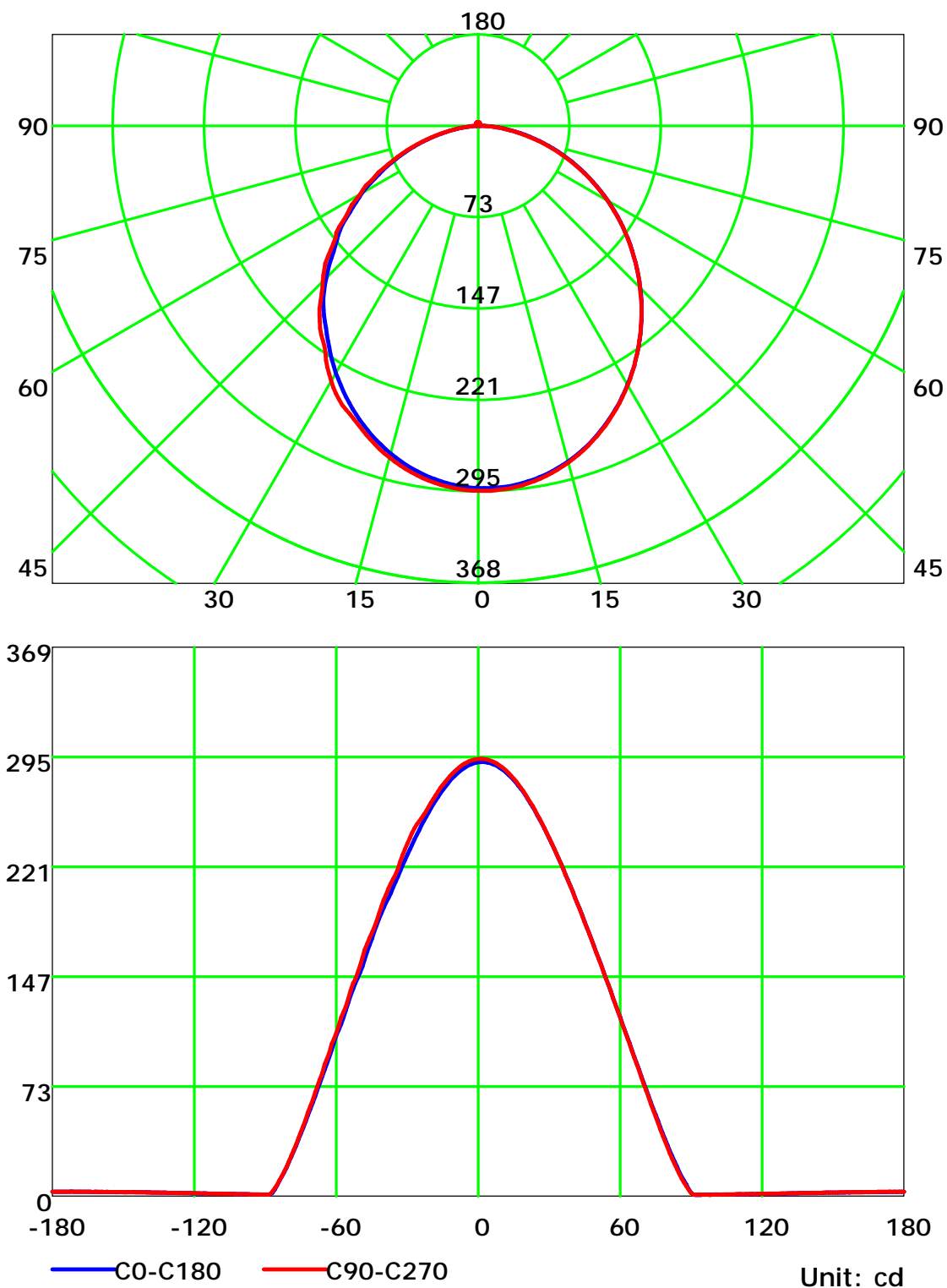
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

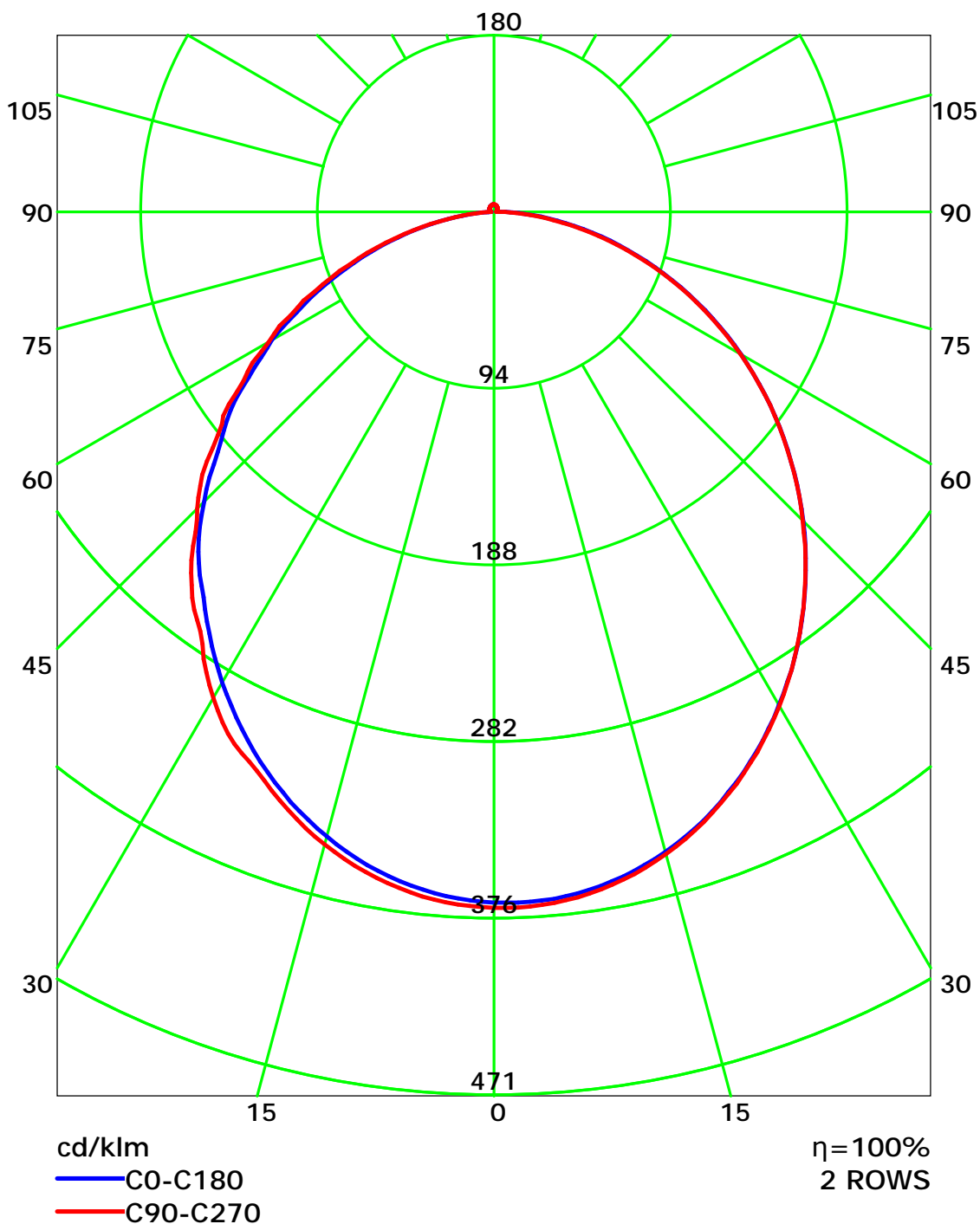
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

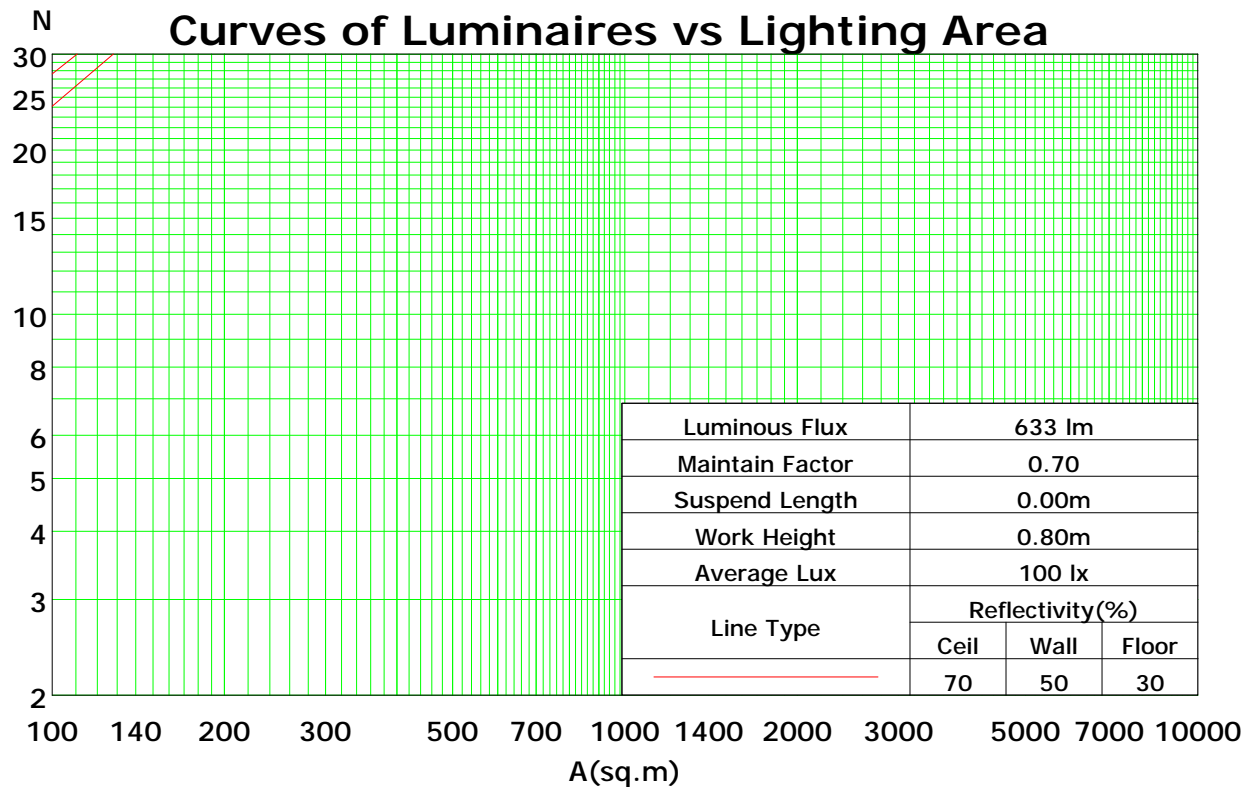
## Coefficients Of Utilization - Zonal Cavity Method

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	110	110	110	105	105	105	101	101	101	98
1	109	104	100	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	78	96	89	82	77	85	80	75	81	77	73	78	74	71	69
3	90	80	72	65	88	78	71	65	75	68	63	72	66	62	69	65	61	58
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	42	36	32	30
9	57	43	35	30	55	43	35	30	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	40	32	27	38	32	27	37	31	27	36	31	26	25

Spacing Criteria (0-180): 1.20

Spacing Criteria (90-270): 1.21

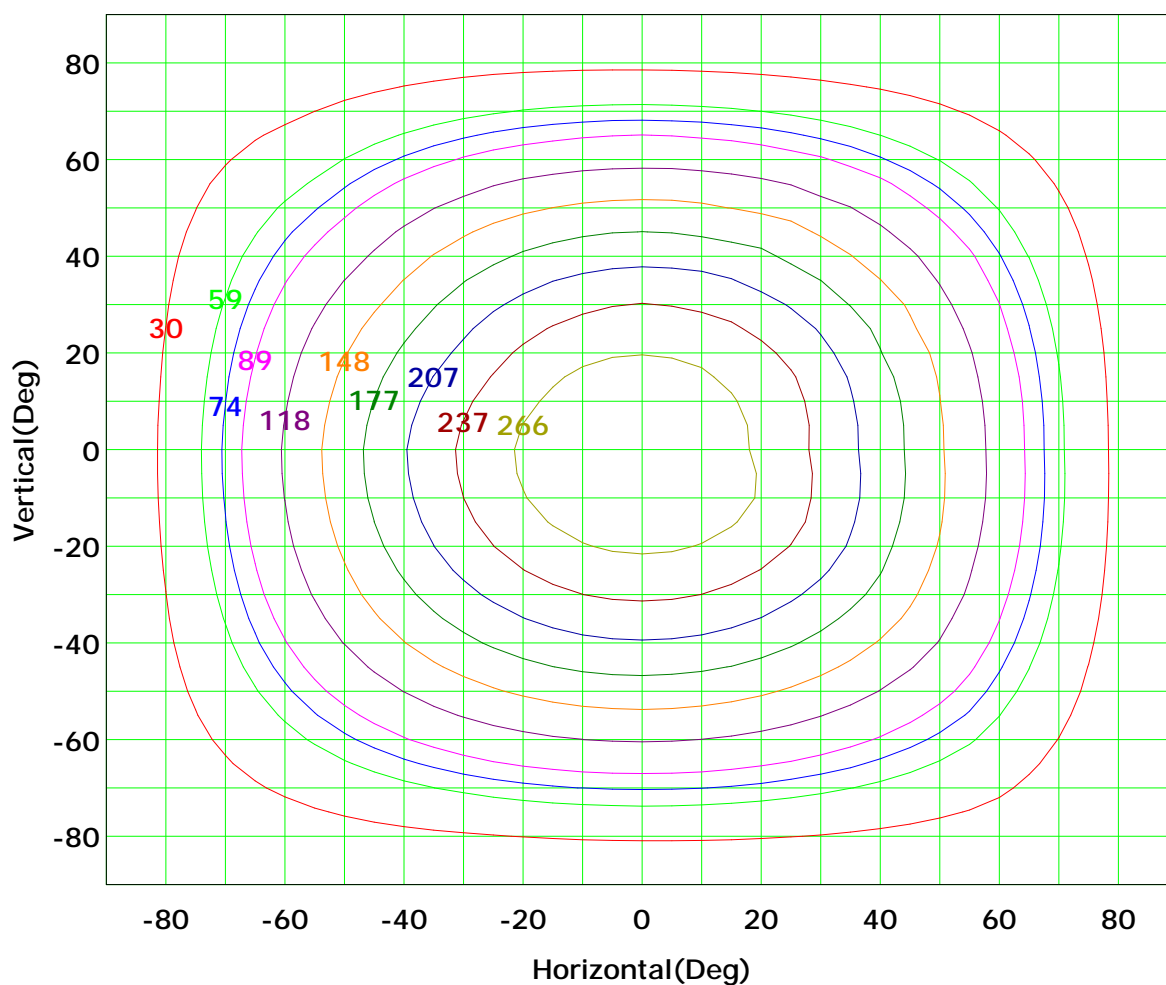
Spacing Criteria (Diagonal): 1.33



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Isocandela (rectangle)



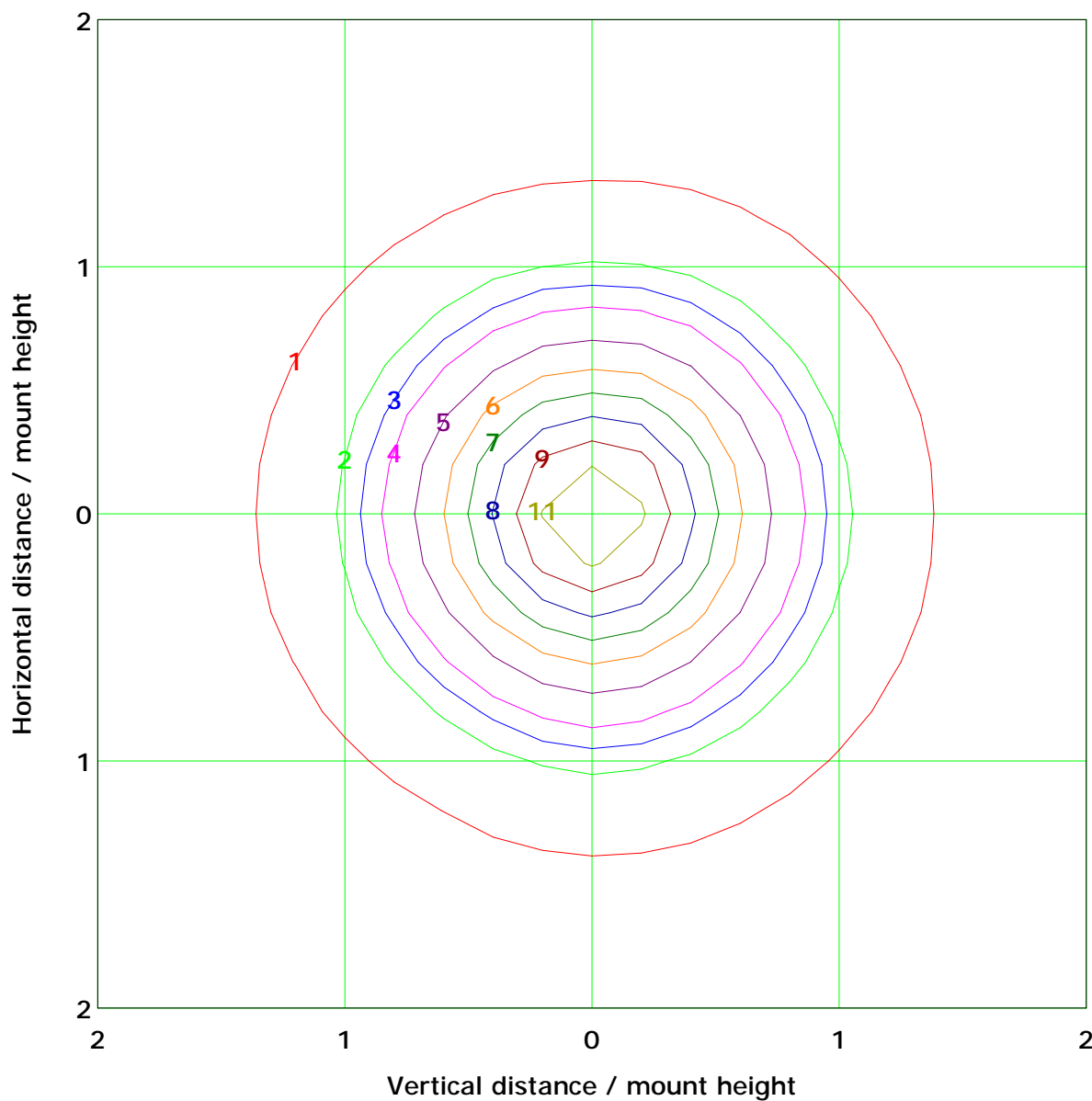
I<sub>max</sub> (100%): 296 cd

( 10%): 30 cd	( 20%): 59 cd
( 25%): 74 cd	( 30%): 89 cd
( 40%): 118 cd	( 50%): 148 cd
( 60%): 177 cd	( 70%): 207 cd
( 80%): 237 cd	( 90%): 266 cd

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## IsoLux Plot



Mounting Height: 5.0m		Max Lux(100%): 11.8 lx	
( 10%):	1.2 lx	( 20%):	2.4 lx
( 25%):	3.0 lx	( 30%):	3.5 lx
( 40%):	4.7 lx	( 50%):	5.9 lx
( 60%):	7.1 lx	( 70%):	8.3 lx
( 80%):	9.5 lx	( 90%):	10.6 lx

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

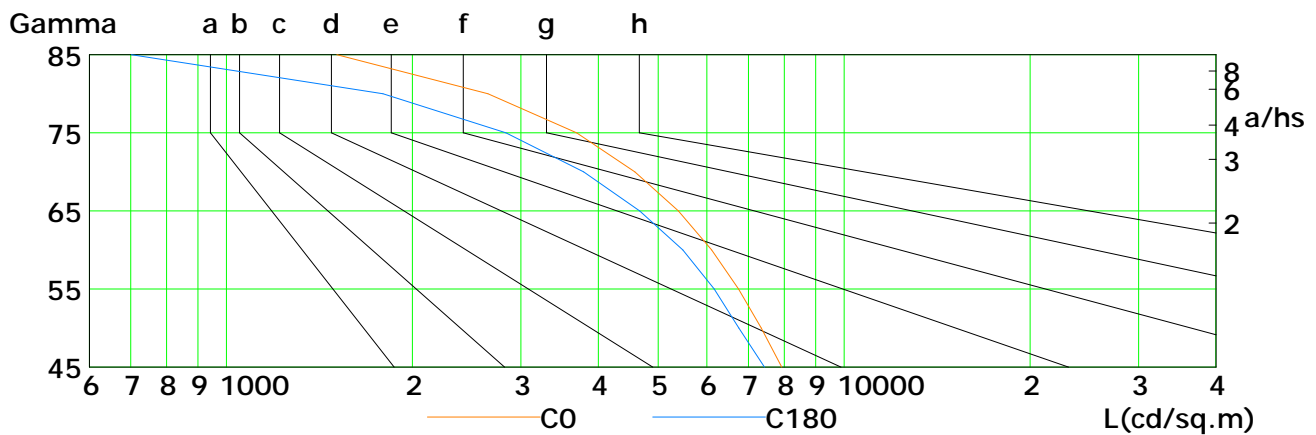
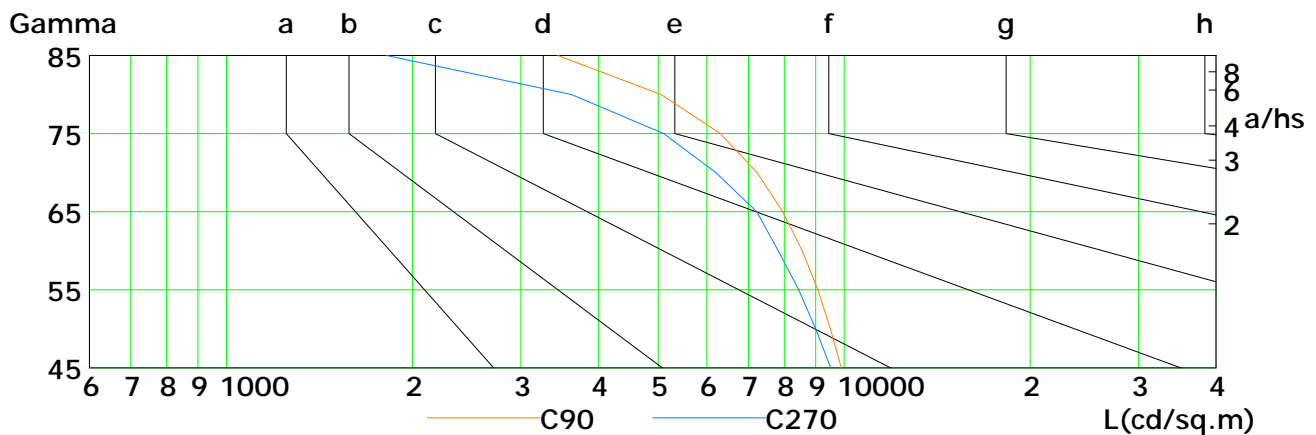
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:



## 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

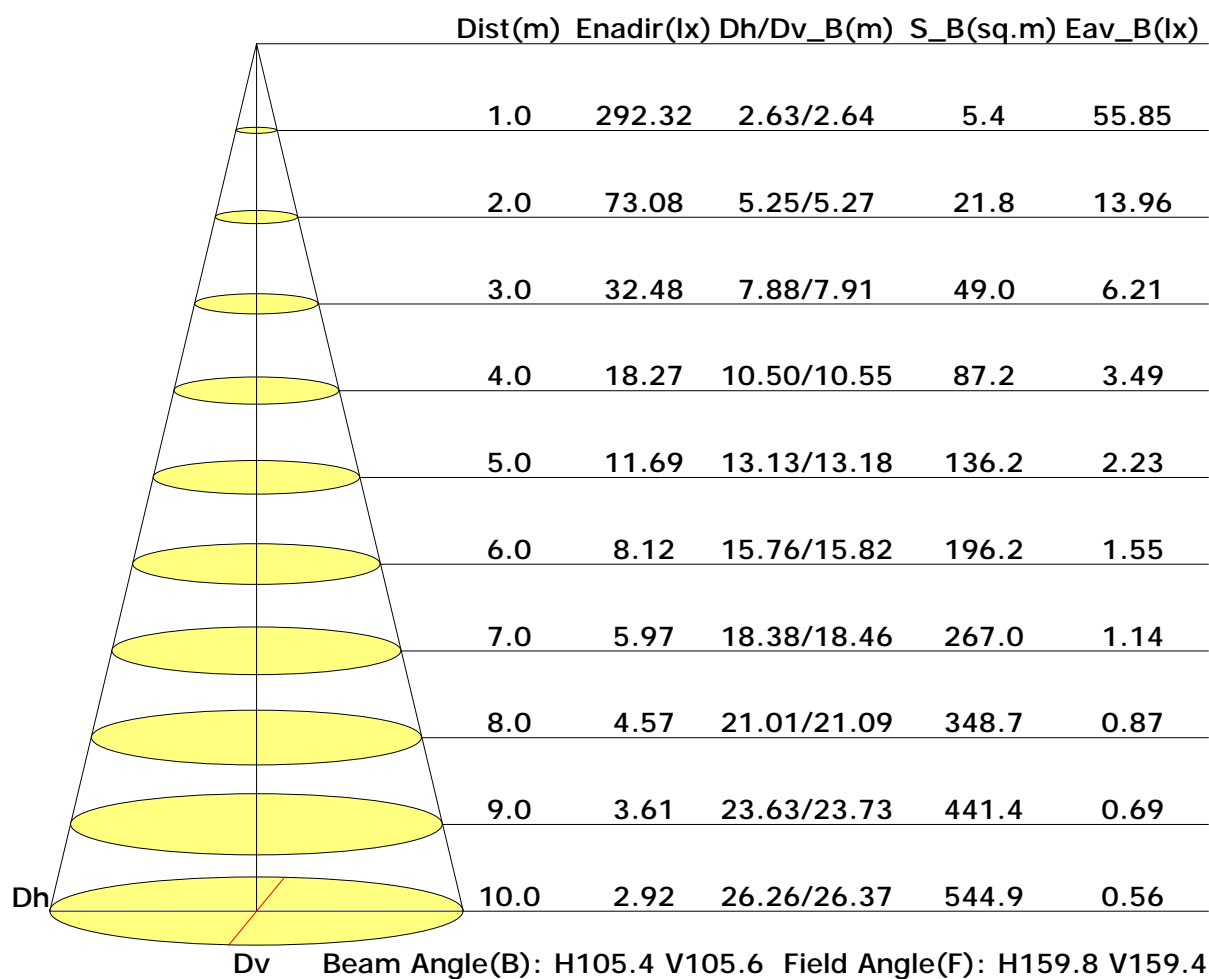


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	7931	7348	6748	6103	5391	4584	3690	2653	1509
C90	9900	9500	9068	8558	7961	7231	6306	5059	3438
C180	7433	6753	6163	5483	4666	3787	2835	1792	702
C270	9514	8998	8446	7820	7227	6199	5102	3621	1816

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

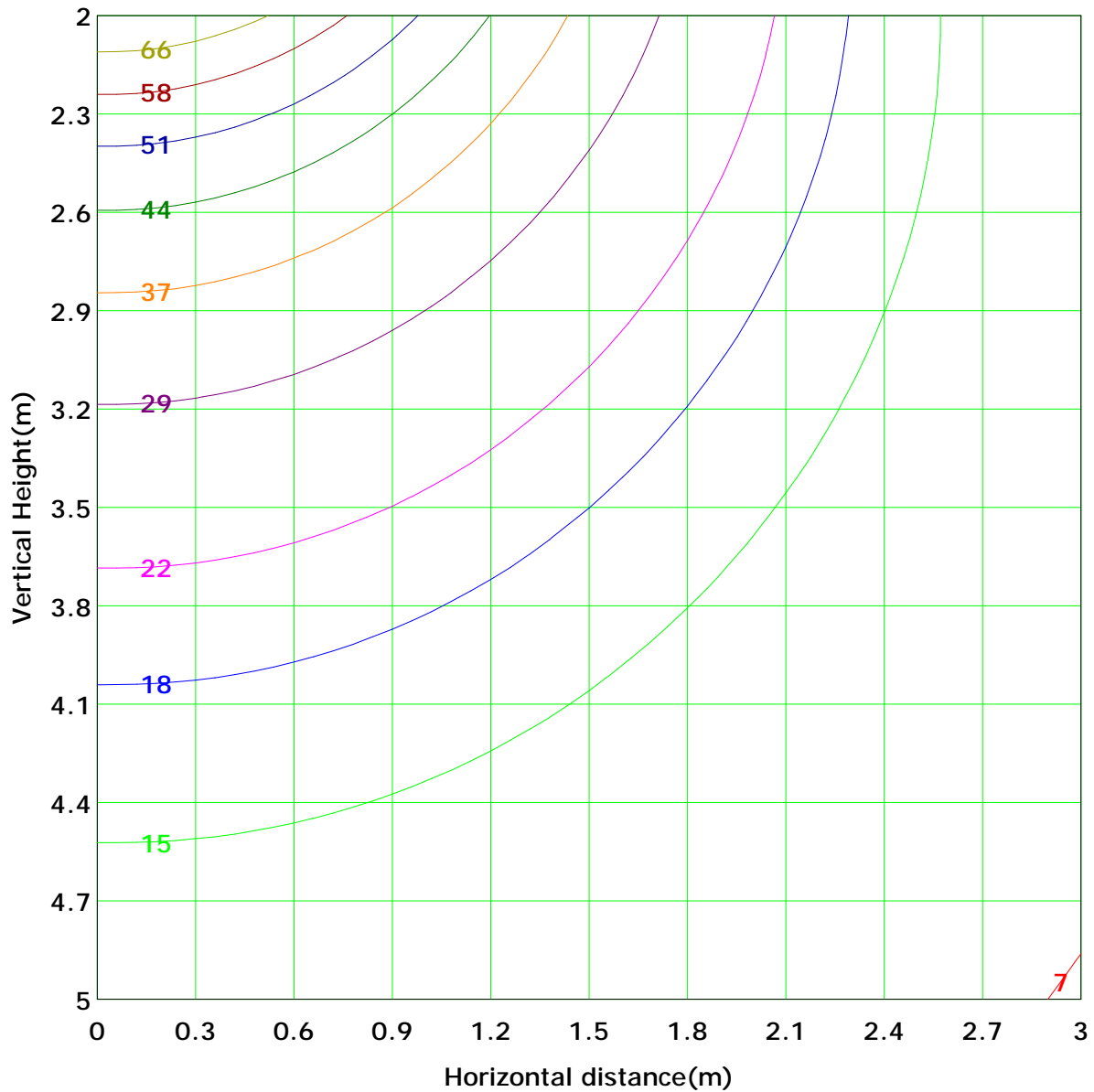
## Illuminance at a Distance







## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 73.1 lx
( 10%): 7.3 lx	( 20%): 14.6 lx	
( 25%): 18.3 lx	( 30%): 21.9 lx	
( 40%): 29.2 lx	( 50%): 36.5 lx	
( 60%): 43.8 lx	( 70%): 51.2 lx	
( 80%): 58.5 lx	( 90%): 65.8 lx	

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Area Flux Table

Unit: lm

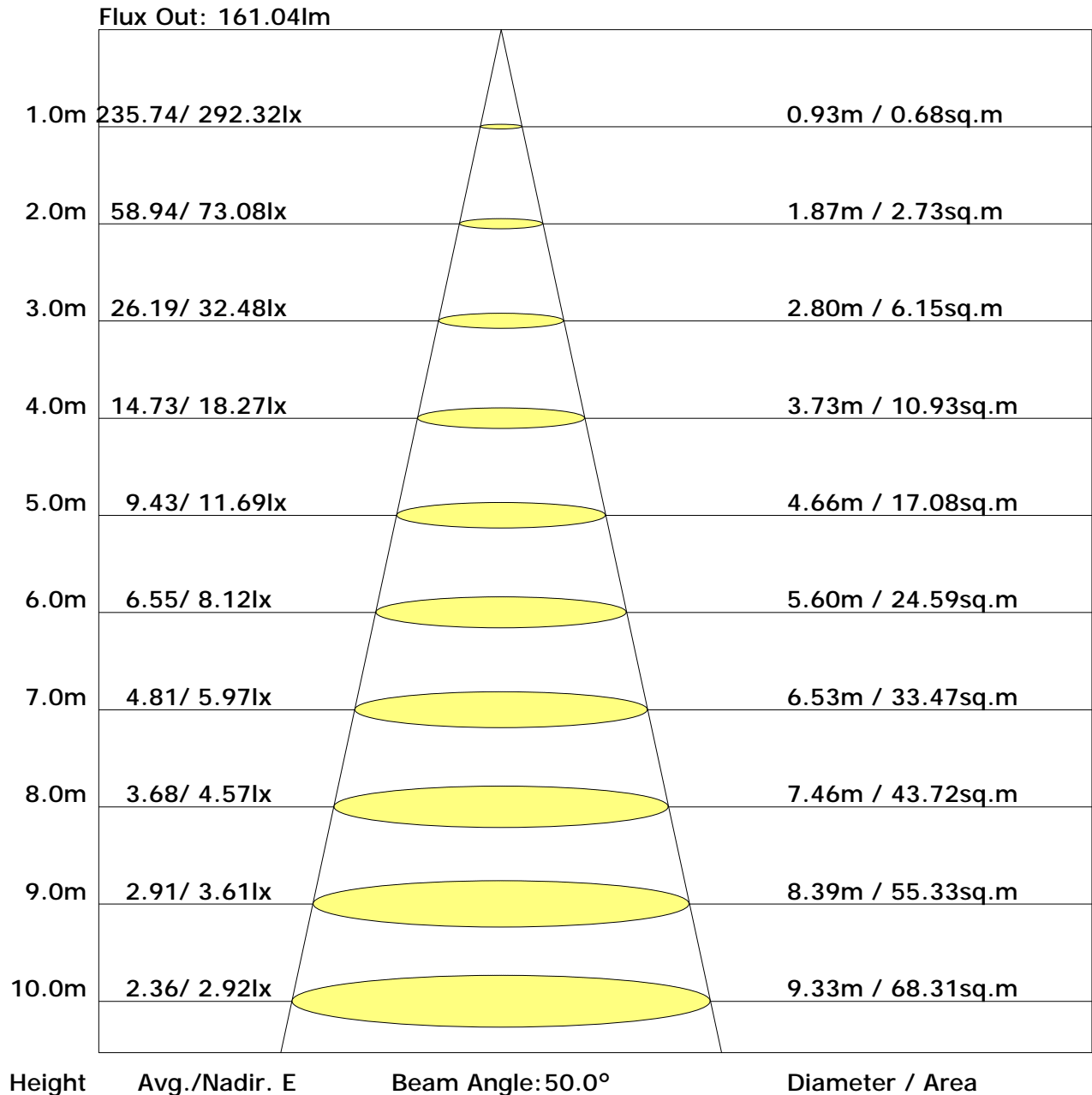
	Orbit: m1																		
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Vertical plane	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0
	0.0	0.0	0.1	0.3	0.5	0.8	1.0	1.2	1.3	1.3	1.2	1.1	0.8	0.6	0.3	0.2	0.1	0.0	0.0
	0.0	0.1	0.3	0.7	1.1	1.6	2.1	2.5	2.6	2.6	2.5	2.1	1.7	1.2	0.7	0.4	0.1	0.0	0.0
	0.0	0.2	0.5	1.1	1.8	2.5	3.2	3.7	4.0	4.0	3.7	3.2	2.5	1.8	1.1	0.6	0.2	0.0	0.0
	0.0	0.2	0.7	1.4	2.4	3.3	4.3	5.0	5.3	5.3	4.9	4.2	3.3	2.3	1.5	0.8	0.3	0.0	0.0
	0.0	0.3	0.8	1.7	2.9	4.1	5.2	6.1	6.6	6.5	6.0	5.2	4.1	2.9	1.8	0.9	0.3	0.0	0.0
	0.0	0.3	1.0	2.0	3.3	4.7	6.0	7.1	7.6	7.6	7.0	6.0	4.7	3.3	2.1	1.1	0.4	0.1	0.1
	0.0	0.3	1.1	2.2	3.6	5.1	6.6	7.7	8.3	8.3	7.7	6.6	5.2	3.7	2.3	1.2	0.4	0.1	0.1
	0.0	0.3	1.1	2.3	3.7	5.3	6.8	8.0	8.7	8.8	8.1	7.0	5.5	3.9	2.5	1.3	0.4	0.1	0.1
	0.0	0.4	1.1	2.3	3.8	5.3	6.8	8.1	8.8	8.8	8.2	7.0	5.5	4.0	2.5	1.3	0.4	0.1	0.1
	0.0	0.3	1.1	2.2	3.7	5.2	6.7	7.9	8.5	8.4	7.8	6.7	5.3	3.8	2.4	1.2	0.4	0.1	0.1
	0.0	0.3	1.0	2.1	3.4	4.9	6.2	7.2	7.7	7.7	7.2	6.2	4.9	3.5	2.2	1.1	0.4	0.1	0.1
	0.0	0.3	0.9	1.9	3.1	4.3	5.4	6.3	6.7	6.7	6.3	5.4	4.3	3.1	2.0	1.0	0.4	0.0	0.0
	0.0	0.2	0.8	1.6	2.6	3.6	4.5	5.2	5.6	5.6	5.2	4.5	3.6	2.6	1.6	0.8	0.3	0.0	0.0
	0.0	0.2	0.6	1.3	2.0	2.8	3.5	4.0	4.3	4.3	4.0	3.5	2.8	2.0	1.3	0.7	0.2	0.0	0.0
	0.0	0.1	0.4	0.9	1.4	1.9	2.4	2.8	3.0	3.0	2.8	2.4	1.9	1.4	0.9	0.5	0.2	0.0	0.0
	0.0	0.1	0.2	0.5	0.8	1.1	1.3	1.5	1.6	1.6	1.5	1.3	1.0	0.8	0.5	0.3	0.1	0.0	0.0
	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.1	0.0	0.0	0.0
Flux(T)	0.4	3.7	12.0	24.7	40.3	57.0	72.6	84.8	91.4	91.4	84.9	73.0	57.7	41.3	25.9	13.4	4.8	0.7	780
Flux(E)	0.0	2.6	11.1	23.9	39.5	56.2	71.8	84.0	90.6	90.6	84.0	72.2	56.8	40.4	25.1	12.5	3.9	0.1	765

C Plane (°): 0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:



## The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
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	19.8	21.4	20.2	21.8	22.1	19.4	20.9	19.7	21.3	21.6
3H	21.6	23.0	22.0	23.4	23.8	20.9	22.3	21.3	22.7	23.1
4H	22.2	23.6	22.6	23.9	24.4	21.4	22.7	21.8	23.1	23.5
6H	22.7	23.9	23.1	24.3	24.8	21.7	23.0	22.2	23.4	23.8
8H	22.8	24.0	23.3	24.4	24.9	21.8	23.0	22.3	23.4	23.9
12H	22.9	24.1	23.4	24.5	24.9	21.9	23.0	22.3	23.4	23.9
X=4H Y=2H	20.3	21.6	20.7	22.0	22.4	19.9	21.3	20.4	21.7	22.1
3H	22.2	23.3	22.6	23.7	24.2	21.7	22.8	22.1	23.2	23.7
4H	22.9	23.9	23.4	24.4	24.8	22.3	23.3	22.8	23.8	24.2
6H	23.5	24.4	24.0	24.8	25.3	22.7	23.6	23.2	24.1	24.6
8H	23.7	24.5	24.1	25.0	25.5	22.8	23.7	23.3	24.1	24.6
12H	23.8	24.5	24.3	25.0	25.5	22.9	23.6	23.4	24.2	24.7
X=8H Y=4H	23.1	23.9	23.5	24.4	24.9	22.6	23.4	23.0	23.9	24.4
6H	23.7	24.4	24.2	24.9	25.4	23.1	23.8	23.6	24.3	24.8
8H	23.9	24.5	24.5	25.1	25.6	23.2	23.8	23.8	24.4	24.9
12H	24.1	24.6	24.6	25.2	25.8	23.3	23.9	23.9	24.4	25.0
X=12H Y=4H	23.1	23.8	23.6	24.3	24.8	22.6	23.3	23.1	23.8	24.3
6H	23.7	24.3	24.2	24.8	25.4	23.1	23.7	23.7	24.2	24.8
8H	24.0	24.5	24.5	25.0	25.6	23.3	23.9	23.8	24.4	25.0

Calculate in accordance with CIE 190:2010

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 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	0.57	0.68	0.75	0.80	0.87	0.92	0.96	1.00	1.03
	0.30		0.50	0.60	0.67	0.73	0.81	0.87	0.91	0.96	1.00
	0.20		0.44	0.54	0.62	0.68	0.76	0.82	0.86	0.93	0.96
0.50	0.50	0.20	0.56	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.99
	0.30		0.49	0.59	0.66	0.71	0.79	0.84	0.88	0.93	0.96
	0.20		0.44	0.54	0.61	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.54	0.63	0.70	0.74	0.81	0.85	0.88	0.92	0.94
	0.30		0.48	0.57	0.64	0.69	0.76	0.81	0.85	0.89	0.92
	0.20		0.43	0.53	0.60	0.65	0.73	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.41	0.50	0.57	0.62	0.69	0.74	0.77	0.82	0.85
Rating: 10W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

## 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	0.98	0.81	0.69	0.60	0.48	0.40	0.34	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20	
	0.20		0.70	0.60	0.53	0.48	0.39	0.34	0.29	0.23	0.19	
0.50	0.50	0.20	0.94	0.77	0.66	0.57	0.46	0.41	0.32	0.25	0.20	
	0.30		0.80	0.67	0.58	0.51	0.42	0.35	0.30	0.24	0.19	
	0.20		0.69	0.59	0.52	0.46	0.38	0.32	0.28	0.22	0.19	
0.30	0.50	0.20	0.91	0.74	0.63	0.55	0.43	0.36	0.31	0.24	0.19	
	0.30		0.78	0.65	0.56	0.50	0.40	0.34	0.29	0.23	0.19	
	0.20		0.68	0.58	0.51	0.45	0.37	0.31	0.27	0.22	0.18	
0.00	0.00	0.00	0.58	0.48	0.42	0.37	0.30	0.25	0.21	0.17	0.14	
Rating: 10W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## 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	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	0.23	
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.22	
	0.30		0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	0.21	
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Rating: 10W 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 <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	294.1	0.3	0.3	0.04	0.04
1.0-2.0	294.0	0.8	1.1	0.11	0.14
2.0-3.0	293.7	1.4	2.5	0.18	0.32
3.0-4.0	293.3	2.0	4.5	0.25	0.57
4.0-5.0	292.8	2.5	7.0	0.32	0.88
5.0-6.0	292.1	3.1	10.1	0.39	1.27
6.0-7.0	291.2	3.6	13.7	0.46	1.73
7.0-8.0	290.3	4.2	17.9	0.52	2.25
8.0-9.0	289.2	4.7	22.5	0.59	2.84
9.0-10.0	287.9	5.2	27.8	0.66	3.50
10.0-11.0	286.6	5.7	33.5	0.72	4.22
11.0-12.0	285.1	6.2	39.7	0.79	5.01
12.0-13.0	283.5	6.7	46.4	0.85	5.86
13.0-14.0	281.7	7.2	53.7	0.91	6.77
14.0-15.0	279.8	7.7	61.3	0.97	7.73
15.0-16.0	277.8	8.1	69.5	1.03	8.76
16.0-17.0	275.7	8.6	78.1	1.08	9.84
17.0-18.0	273.5	9.0	87.1	1.14	10.98
18.0-19.0	271.2	9.4	96.5	1.19	12.17
19.0-20.0	268.7	9.8	106.4	1.24	13.41
20.0-21.0	266.2	10.2	116.6	1.29	14.70
21.0-22.0	263.6	10.6	127.2	1.34	16.04
22.0-23.0	261.0	11.0	138.1	1.38	17.42
23.0-24.0	258.3	11.3	149.4	1.42	18.84
24.0-25.0	255.6	11.6	161.0	1.47	20.31
25.0-26.0	252.7	11.9	173.0	1.50	21.81
26.0-27.0	249.8	12.2	185.2	1.54	23.36
27.0-28.0	246.6	12.5	197.7	1.57	24.93
28.0-29.0	243.3	12.7	210.4	1.61	26.54
29.0-30.0	239.8	13.0	223.4	1.63	28.17
30.0-31.0	236.2	13.1	236.5	1.66	29.83
31.0-32.0	232.6	13.3	249.8	1.68	31.51
32.0-33.0	229.1	13.5	263.3	1.70	33.21
33.0-34.0	225.4	13.6	277.0	1.72	34.93
34.0-35.0	221.6	13.8	290.7	1.74	36.67
35.0-36.0	218.0	13.9	304.6	1.75	38.42

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:



## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	214.4	14.0	318.6	1.76	40.18
37.0-38.0	210.7	14.1	332.7	1.77	41.96
38.0-39.0	206.8	14.1	346.8	1.78	43.74
39.0-40.0	202.9	14.2	361.0	1.78	45.52
40.0-41.0	199.0	14.2	375.1	1.79	47.31
41.0-42.0	194.9	14.2	389.3	1.79	49.09
42.0-43.0	190.8	14.1	403.4	1.78	50.88
43.0-44.0	186.7	14.1	417.5	1.78	52.65
44.0-45.0	182.5	14.0	431.5	1.77	54.42
45.0-46.0	178.3	13.9	445.5	1.76	56.18
46.0-47.0	174.1	13.8	459.3	1.75	57.93
47.0-48.0	169.9	13.7	473.1	1.73	59.66
48.0-49.0	165.7	13.6	486.7	1.72	61.38
49.0-50.0	161.4	13.5	500.1	1.70	63.07
50.0-51.0	156.8	13.3	513.4	1.67	64.75
51.0-52.0	152.4	13.1	526.5	1.65	66.40
52.0-53.0	148.4	12.9	539.4	1.63	68.02
53.0-54.0	144.2	12.7	552.1	1.60	69.63
54.0-55.0	139.6	12.5	564.6	1.57	71.20
55.0-56.0	134.9	12.2	576.8	1.54	72.74
56.0-57.0	130.4	11.9	588.7	1.50	74.24
57.0-58.0	126.2	11.7	600.4	1.47	75.71
58.0-59.0	121.8	11.4	611.8	1.44	77.15
59.0-60.0	117.1	11.1	622.8	1.40	78.54
60.0-61.0	112.8	10.8	633.6	1.36	79.90
61.0-62.0	108.4	10.4	644.0	1.32	81.22
62.0-63.0	103.7	10.1	654.1	1.27	82.49
63.0-64.0	99.3	9.7	663.9	1.23	83.72
64.0-65.0	94.9	9.4	673.3	1.18	84.90
65.0-66.0	90.3	9.0	682.3	1.14	86.04
66.0-67.0	85.8	8.6	690.9	1.09	87.13
67.0-68.0	81.3	8.2	699.1	1.04	88.17
68.0-69.0	76.9	7.8	707.0	0.99	89.16
69.0-70.0	72.4	7.4	714.4	0.94	90.09
70.0-71.0	68.0	7.0	721.4	0.89	90.98
71.0-72.0	63.6	6.6	728.1	0.83	91.82

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	59.3	6.2	734.3	0.78	92.60
73.0-74.0	54.9	5.8	740.0	0.73	93.33
74.0-75.0	50.7	5.4	745.4	0.68	94.00
75.0-76.0	46.5	4.9	750.3	0.62	94.62
76.0-77.0	42.4	4.5	754.8	0.57	95.19
77.0-78.0	38.4	4.1	759.0	0.52	95.71
78.0-79.0	34.4	3.7	762.7	0.47	96.18
79.0-80.0	30.5	3.3	765.9	0.42	96.59
80.0-81.0	26.8	2.9	768.8	0.37	96.96
81.0-82.0	23.2	2.5	771.4	0.32	97.28
82.0-83.0	19.8	2.1	773.5	0.27	97.55
83.0-84.0	16.5	1.8	775.3	0.23	97.77
84.0-85.0	13.4	1.5	776.8	0.18	97.96
85.0-86.0	10.5	1.1	777.9	0.14	98.10
86.0-87.0	7.8	0.8	778.8	0.11	98.21
87.0-88.0	5.4	0.6	779.4	0.07	98.29
88.0-89.0	3.6	0.4	779.8	0.05	98.34
89.0-90.0	2.4	0.3	780.0	0.03	98.37
90.0-91.0	1.5	0.2	780.2	0.02	98.39
91.0-92.0	1.2	0.1	780.3	0.02	98.41
92.0-93.0	1.2	0.1	780.5	0.02	98.42
93.0-94.0	1.3	0.1	780.6	0.02	98.44
94.0-95.0	1.3	0.1	780.7	0.02	98.46
95.0-96.0	1.3	0.1	780.9	0.02	98.48
96.0-97.0	1.3	0.1	781.0	0.02	98.49
97.0-98.0	1.3	0.1	781.2	0.02	98.51
98.0-99.0	1.4	0.1	781.3	0.02	98.53
99.0-100.0	1.4	0.2	781.5	0.02	98.55
100.0-101.0	1.4	0.2	781.6	0.02	98.57
101.0-102.0	1.4	0.2	781.8	0.02	98.59
102.0-103.0	1.5	0.2	781.9	0.02	98.61
103.0-104.0	1.5	0.2	782.1	0.02	98.63
104.0-105.0	1.5	0.2	782.3	0.02	98.65
105.0-106.0	1.6	0.2	782.4	0.02	98.67
106.0-107.0	1.6	0.2	782.6	0.02	98.69
107.0-108.0	1.6	0.2	782.8	0.02	98.71

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 3)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	1.6	0.2	782.9	0.02	98.74
109.0-110.0	1.7	0.2	783.1	0.02	98.76
110.0-111.0	1.7	0.2	783.3	0.02	98.78
111.0-112.0	1.7	0.2	783.5	0.02	98.80
112.0-113.0	1.8	0.2	783.6	0.02	98.82
113.0-114.0	1.8	0.2	783.8	0.02	98.85
114.0-115.0	1.8	0.2	784.0	0.02	98.87
115.0-116.0	1.9	0.2	784.2	0.02	98.89
116.0-117.0	1.9	0.2	784.4	0.02	98.92
117.0-118.0	1.9	0.2	784.6	0.02	98.94
118.0-119.0	1.9	0.2	784.7	0.02	98.96
119.0-120.0	2.0	0.2	784.9	0.02	98.99
120.0-121.0	2.0	0.2	785.1	0.02	99.01
121.0-122.0	2.1	0.2	785.3	0.02	99.04
122.0-123.0	2.1	0.2	785.5	0.02	99.06
123.0-124.0	2.1	0.2	785.7	0.02	99.08
124.0-125.0	2.1	0.2	785.9	0.02	99.11
125.0-126.0	2.2	0.2	786.1	0.02	99.13
126.0-127.0	2.2	0.2	786.3	0.02	99.16
127.0-128.0	2.2	0.2	786.5	0.02	99.18
128.0-129.0	2.2	0.2	786.7	0.02	99.21
129.0-130.0	2.3	0.2	786.9	0.02	99.23
130.0-131.0	2.3	0.2	787.1	0.02	99.26
131.0-132.0	2.3	0.2	787.2	0.02	99.28
132.0-133.0	2.4	0.2	787.4	0.02	99.30
133.0-134.0	2.4	0.2	787.6	0.02	99.33
134.0-135.0	2.4	0.2	787.8	0.02	99.35
135.0-136.0	2.5	0.2	788.0	0.02	99.38
136.0-137.0	2.5	0.2	788.2	0.02	99.40
137.0-138.0	2.5	0.2	788.4	0.02	99.42
138.0-139.0	2.5	0.2	788.6	0.02	99.45
139.0-140.0	2.6	0.2	788.7	0.02	99.47
140.0-141.0	2.6	0.2	788.9	0.02	99.49
141.0-142.0	2.6	0.2	789.1	0.02	99.51
142.0-143.0	2.6	0.2	789.3	0.02	99.54
143.0-144.0	2.6	0.2	789.5	0.02	99.56

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 4)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	2.7	0.2	789.6	0.02	99.58
145.0-146.0	2.7	0.2	789.8	0.02	99.60
146.0-147.0	2.7	0.2	790.0	0.02	99.62
147.0-148.0	2.8	0.2	790.1	0.02	99.64
148.0-149.0	2.8	0.2	790.3	0.02	99.66
149.0-150.0	2.8	0.2	790.4	0.02	99.68
150.0-151.0	2.8	0.2	790.6	0.02	99.70
151.0-152.0	2.8	0.1	790.7	0.02	99.72
152.0-153.0	2.9	0.1	790.9	0.02	99.74
153.0-154.0	2.9	0.1	791.0	0.02	99.76
154.0-155.0	2.9	0.1	791.2	0.02	99.77
155.0-156.0	2.9	0.1	791.3	0.02	99.79
156.0-157.0	2.9	0.1	791.4	0.02	99.81
157.0-158.0	3.0	0.1	791.5	0.02	99.82
158.0-159.0	3.0	0.1	791.7	0.02	99.84
159.0-160.0	3.0	0.1	791.8	0.01	99.85
160.0-161.0	3.0	0.1	791.9	0.01	99.87
161.0-162.0	3.0	0.1	792.0	0.01	99.88
162.0-163.0	3.0	0.1	792.1	0.01	99.89
163.0-164.0	3.1	0.1	792.2	0.01	99.90
164.0-165.0	3.1	0.1	792.3	0.01	99.91
165.0-166.0	3.1	0.1	792.4	0.01	99.93
166.0-167.0	3.1	0.1	792.4	0.01	99.94
167.0-168.0	3.1	0.1	792.5	0.01	99.94
168.0-169.0	3.1	0.1	792.6	0.01	99.95
169.0-170.0	3.2	0.1	792.7	0.01	99.96
170.0-171.0	3.2	0.1	792.7	0.01	99.97
171.0-172.0	3.2	0.1	792.8	0.01	99.98
172.0-173.0	3.2	0.0	792.8	0.01	99.98
173.0-174.0	3.2	0.0	792.8	0.01	99.99
174.0-175.0	3.2	0.0	792.9	0.00	99.99
175.0-176.0	3.2	0.0	792.9	0.00	99.99
176.0-177.0	3.2	0.0	792.9	0.00	100.00
177.0-178.0	3.2	0.0	792.9	0.00	100.00
178.0-179.0	3.2	0.0	793.0	0.00	100.00
179.0-180.0	3.2	0.0	793.0	0.00	100.00

C Plane (°):0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector: