

Report No.:

Test Time: 2023/9/13 10:14

## Luminaire Property

Luminaire Manufacturer: ACOLYTE

Luminaire Category: CHANNEL

Luminaire Description: CHAS3M90SWS2203.030

Luminous Length (mm): 500

Luminous Width (mm): 23.6

Luminous Height (mm): 10.7

Voltage: 24.2 V

Current: 0.205 A

Power: 4.95 W

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 313.4 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H159.3,H111.2

Vertical Diffuse Angle(10%,50%): V163.7,V112.6

Luminaire Efficacy Rating (LER): 63

Max. Intensity: 113.52 cd

Total Rated Lamp Lumens: 313.4 lm

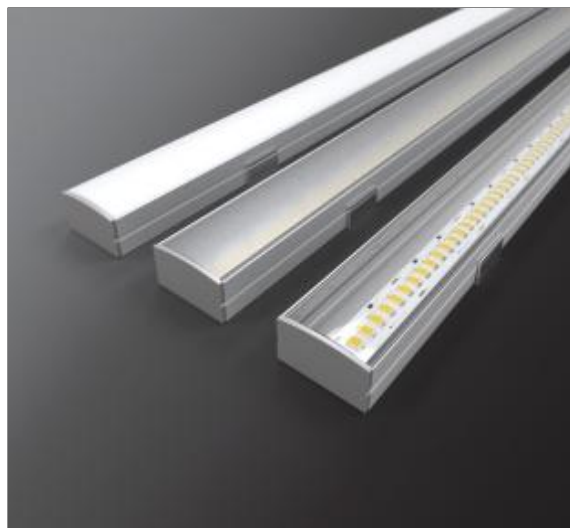
Efficiency: 100%

Upward Ratio: 1%

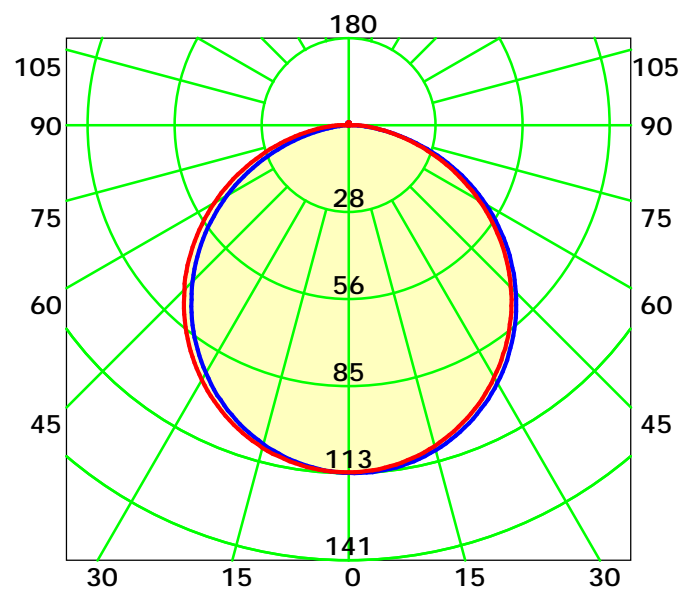
Central Intensity: 113.39 cd

Pos of Max. Intensity: H60 V0

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 111.9° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Nick

Gamma Plane (°):0.0-180.0: 1.0

Test Device: GPM-1800B

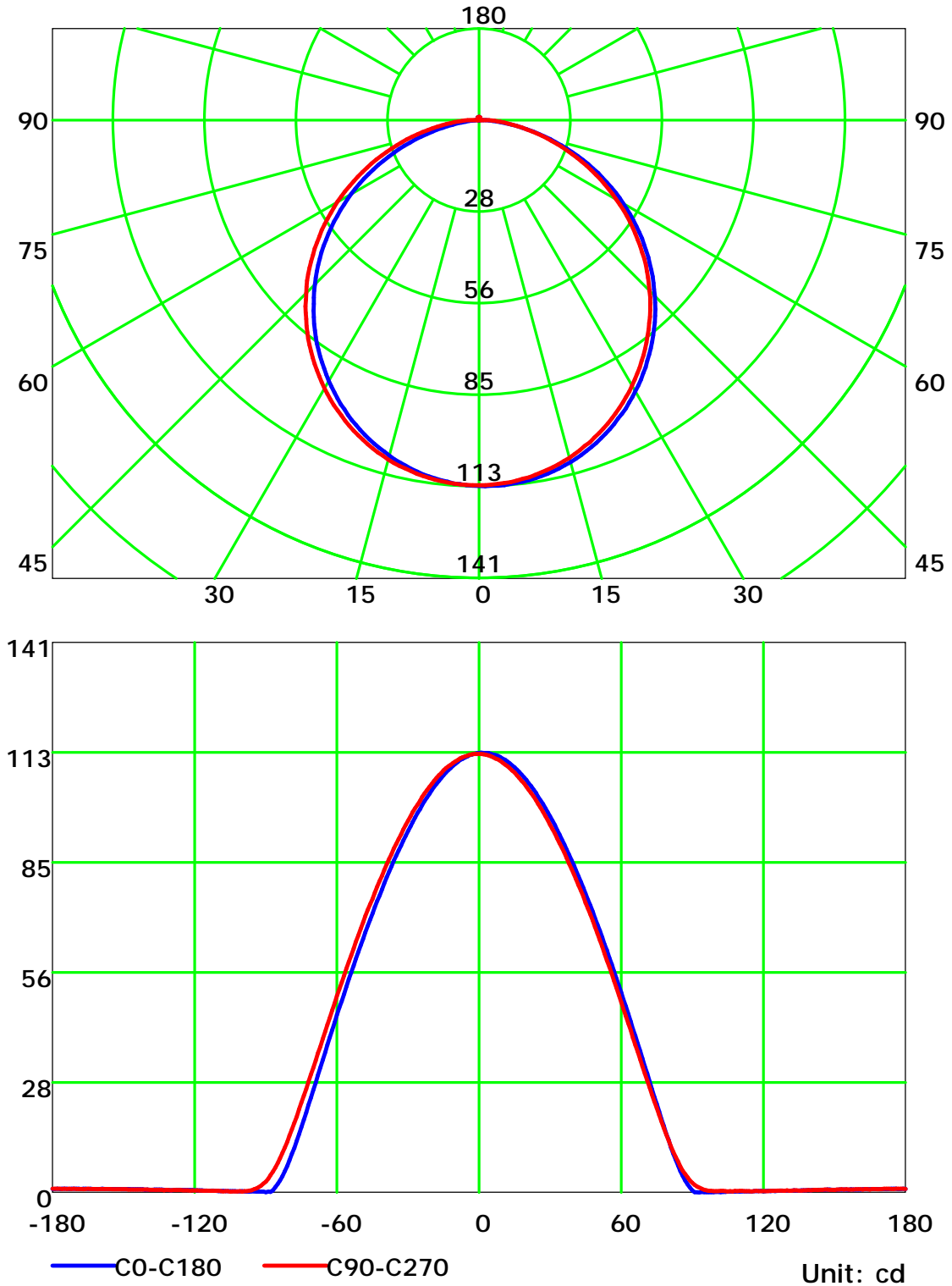
Distance: 9.028 m

Humidity: 60%

Inspector:



## Luminous Intensity Distribution Curve

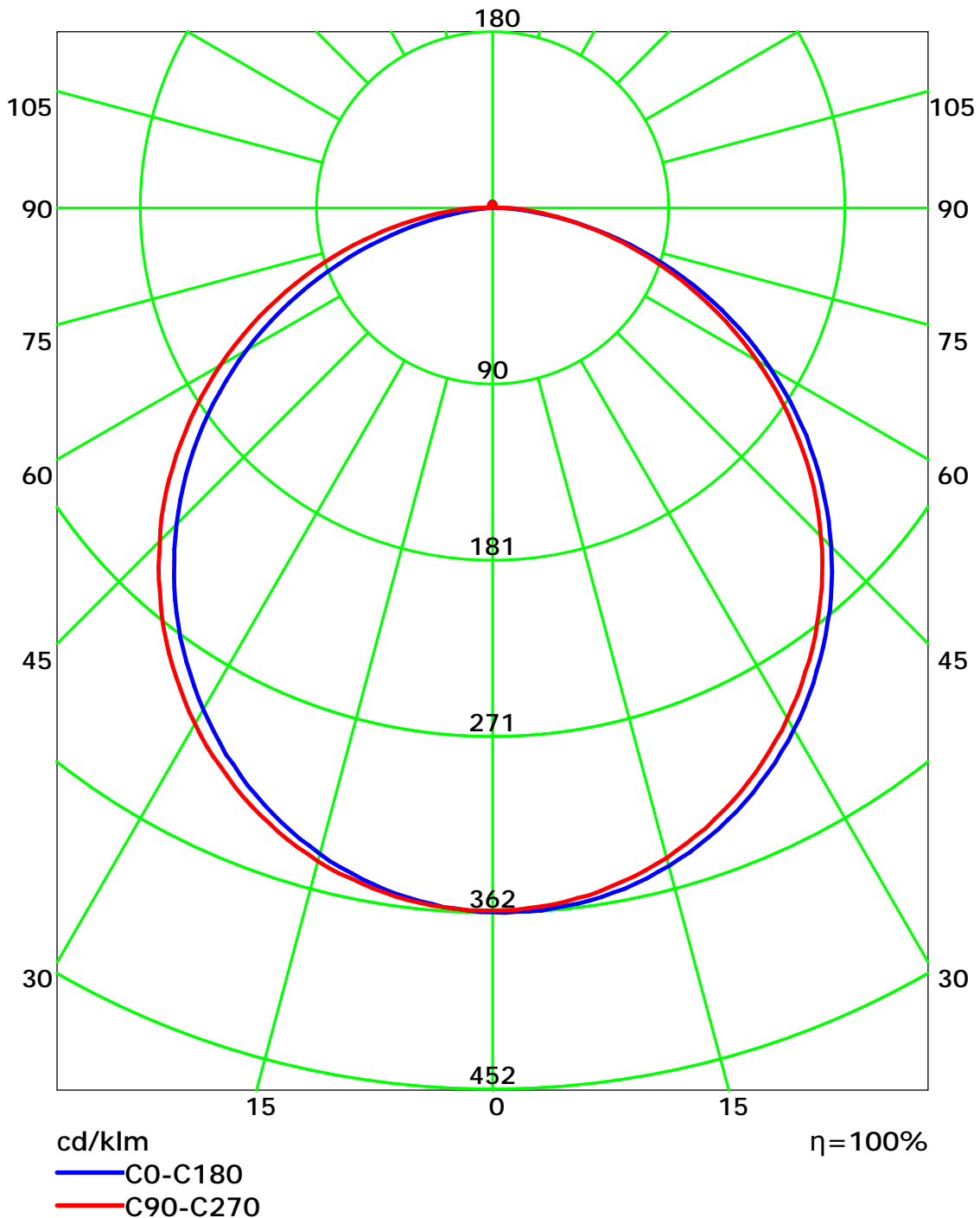


C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

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: Nick

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

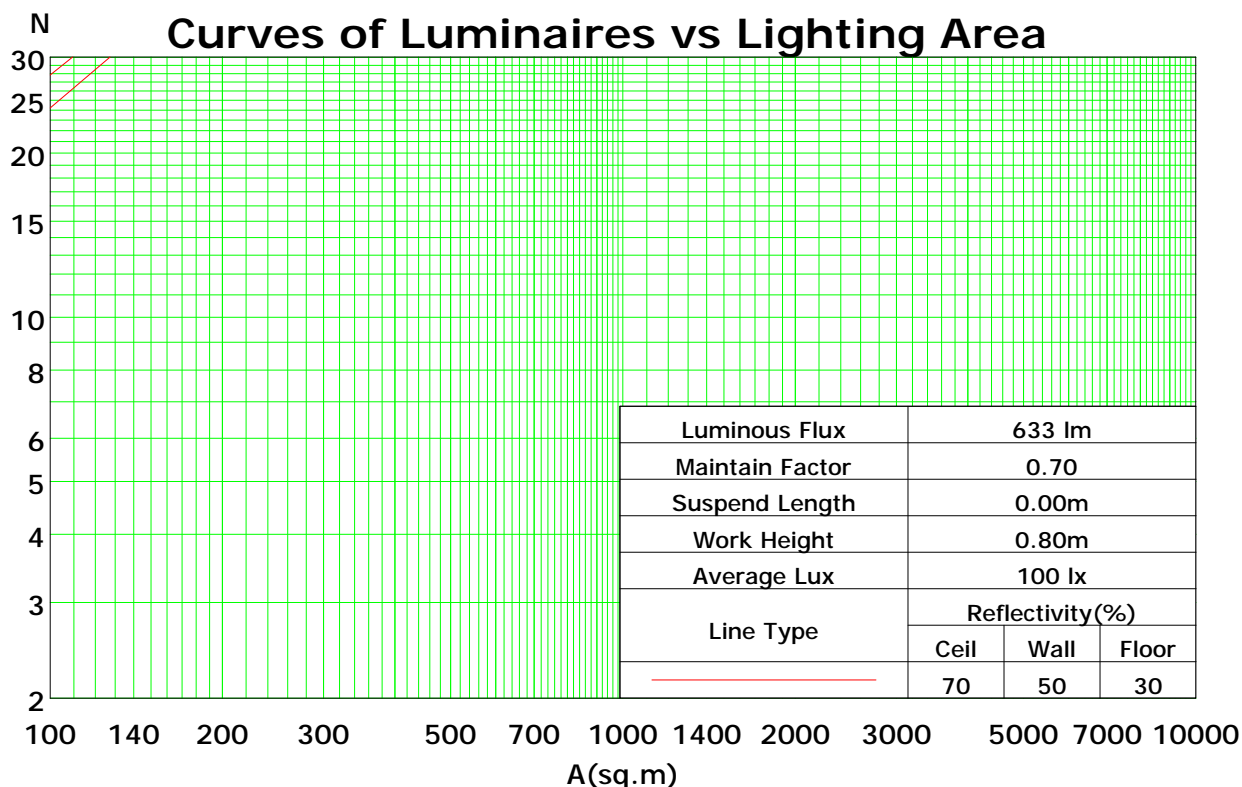
## Coefficients Of Utilization - Zonal Cavity Method

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	106	106	106	101	101	101	99
1	108	104	99	95	106	101	97	94	97	93	91	93	90	88	89	87	85	83
2	98	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	75	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	39	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.25

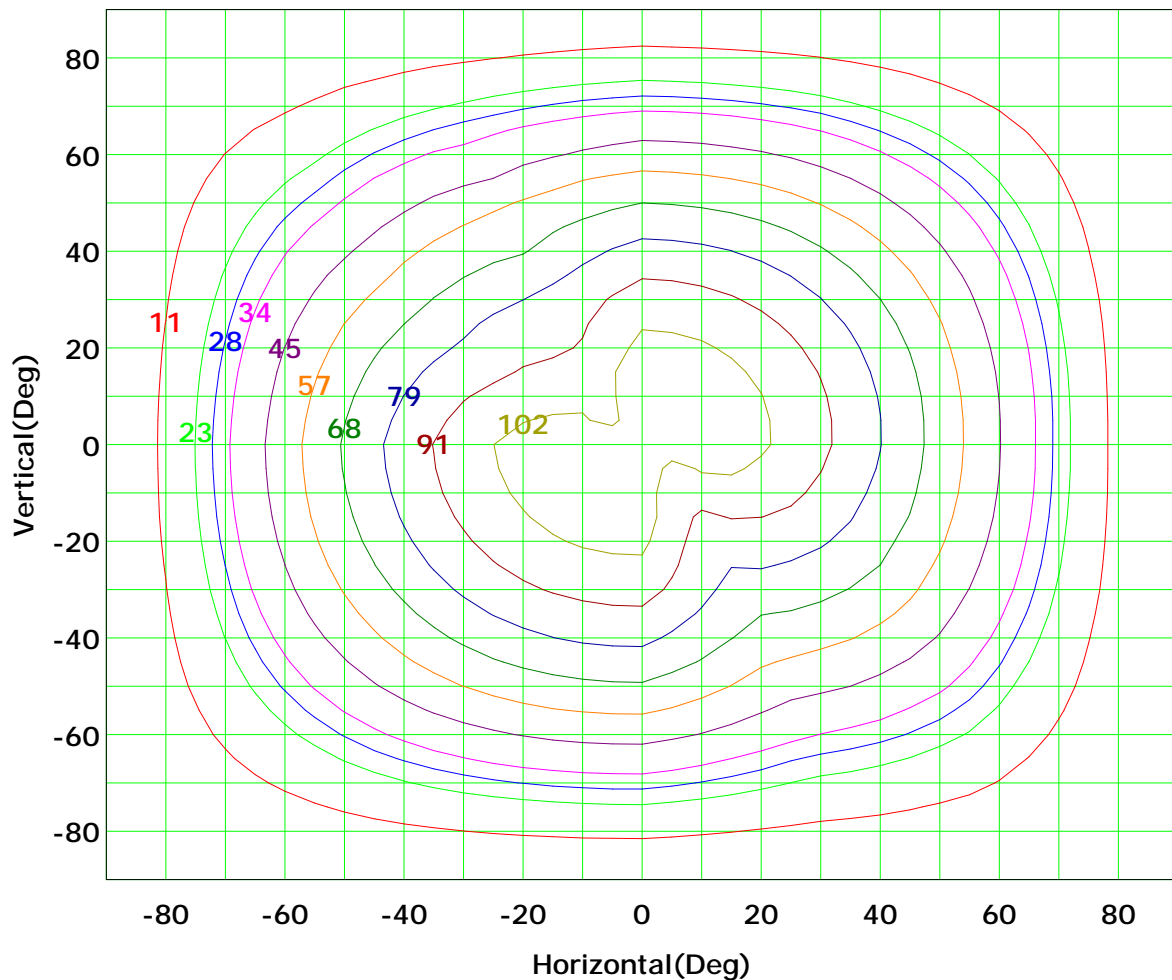
Spacing Criteria (Diagonal): 1.33



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

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

## Isocandela (rectangle)



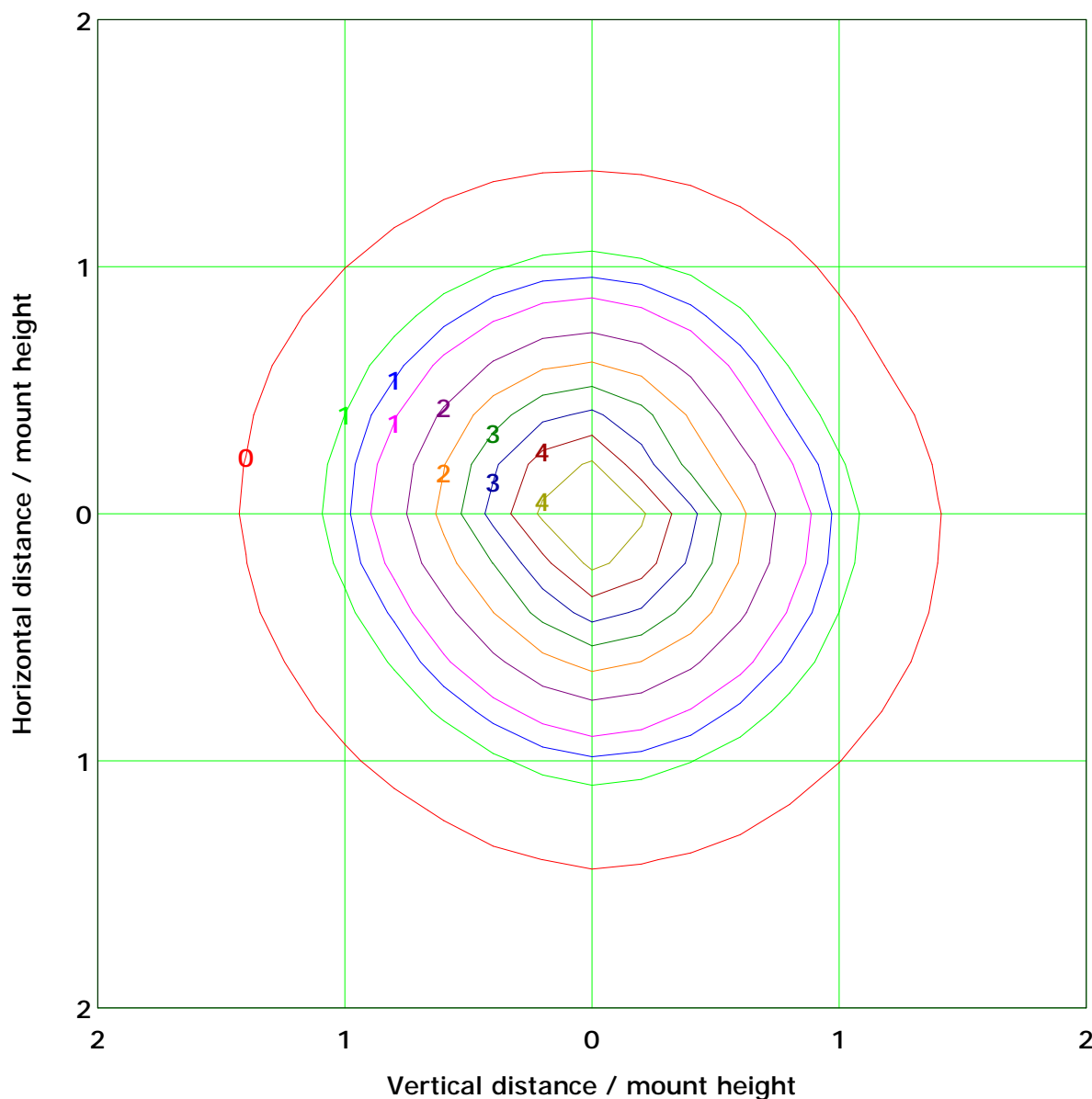
I<sub>max</sub> (100%): 114 cd

( 10%):	11 cd	( 20%):	23 cd
( 25%):	28 cd	( 30%):	34 cd
( 40%):	45 cd	( 50%):	57 cd
( 60%):	68 cd	( 70%):	79 cd
( 80%):	91 cd	( 90%):	102 cd

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

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%): 4.5 lx

( 10%): 0.5 lx	( 20%): 0.9 lx
( 25%): 1.1 lx	( 30%): 1.4 lx
( 40%): 1.8 lx	( 50%): 2.3 lx
( 60%): 2.7 lx	( 70%): 3.2 lx
( 80%): 3.6 lx	( 90%): 4.1 lx

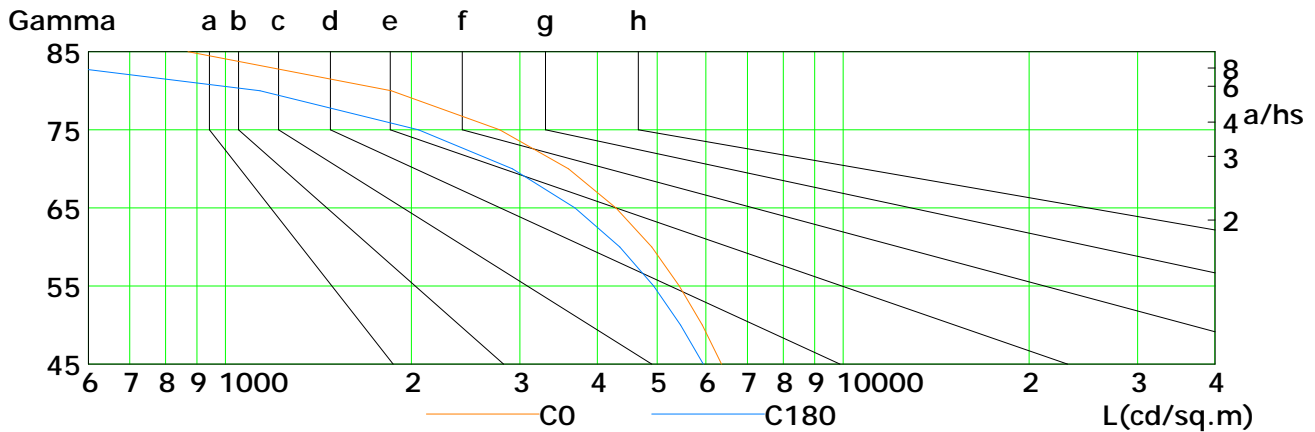
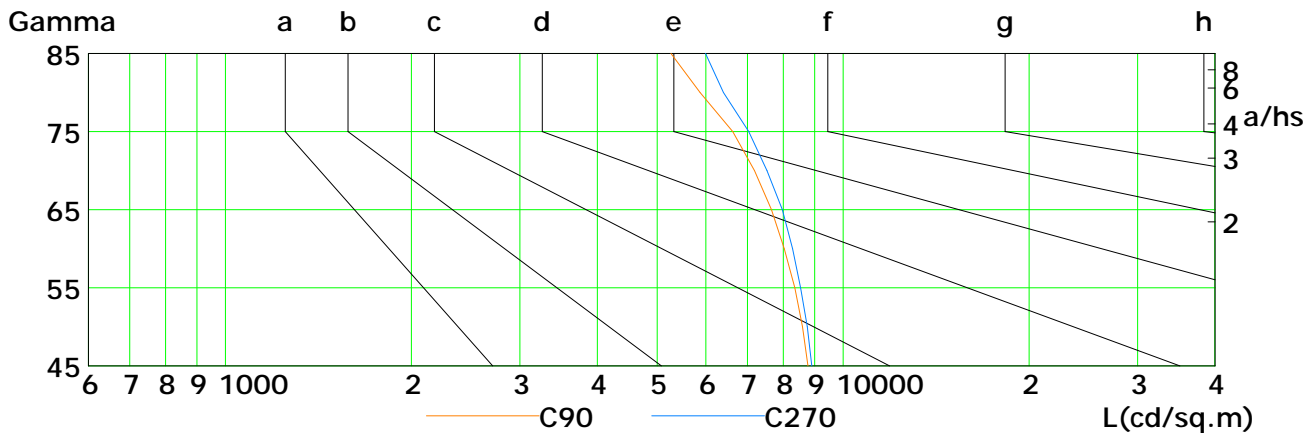
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

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



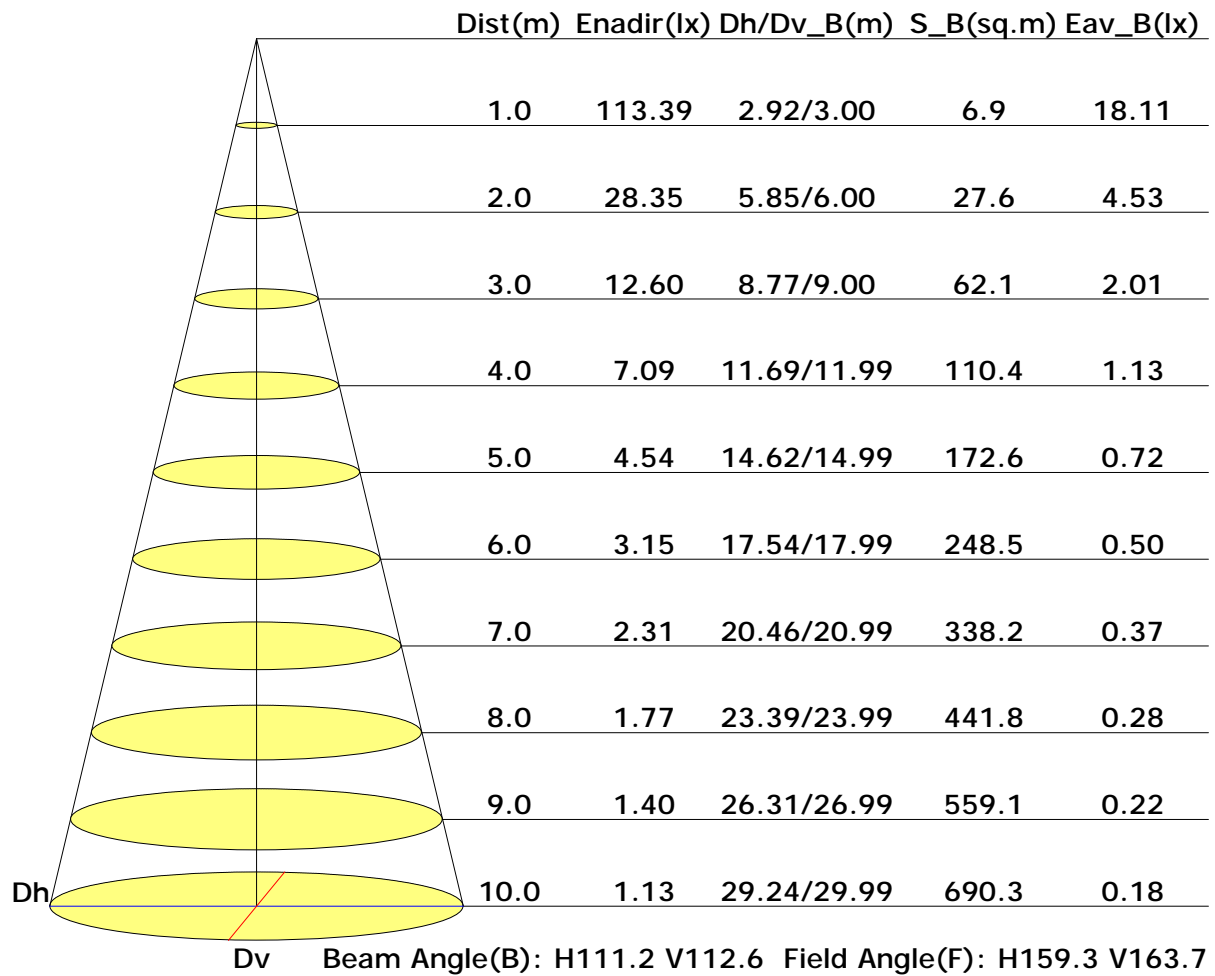
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6360	5919	5434	4901	4288	3594	2783	1857	870
C90	8772	8596	8353	8029	7658	7187	6625	5867	5266
C180	5942	5460	4934	4350	3679	2918	2053	1138	352
C270	8897	8749	8538	8288	7972	7528	7041	6402	5992

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

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

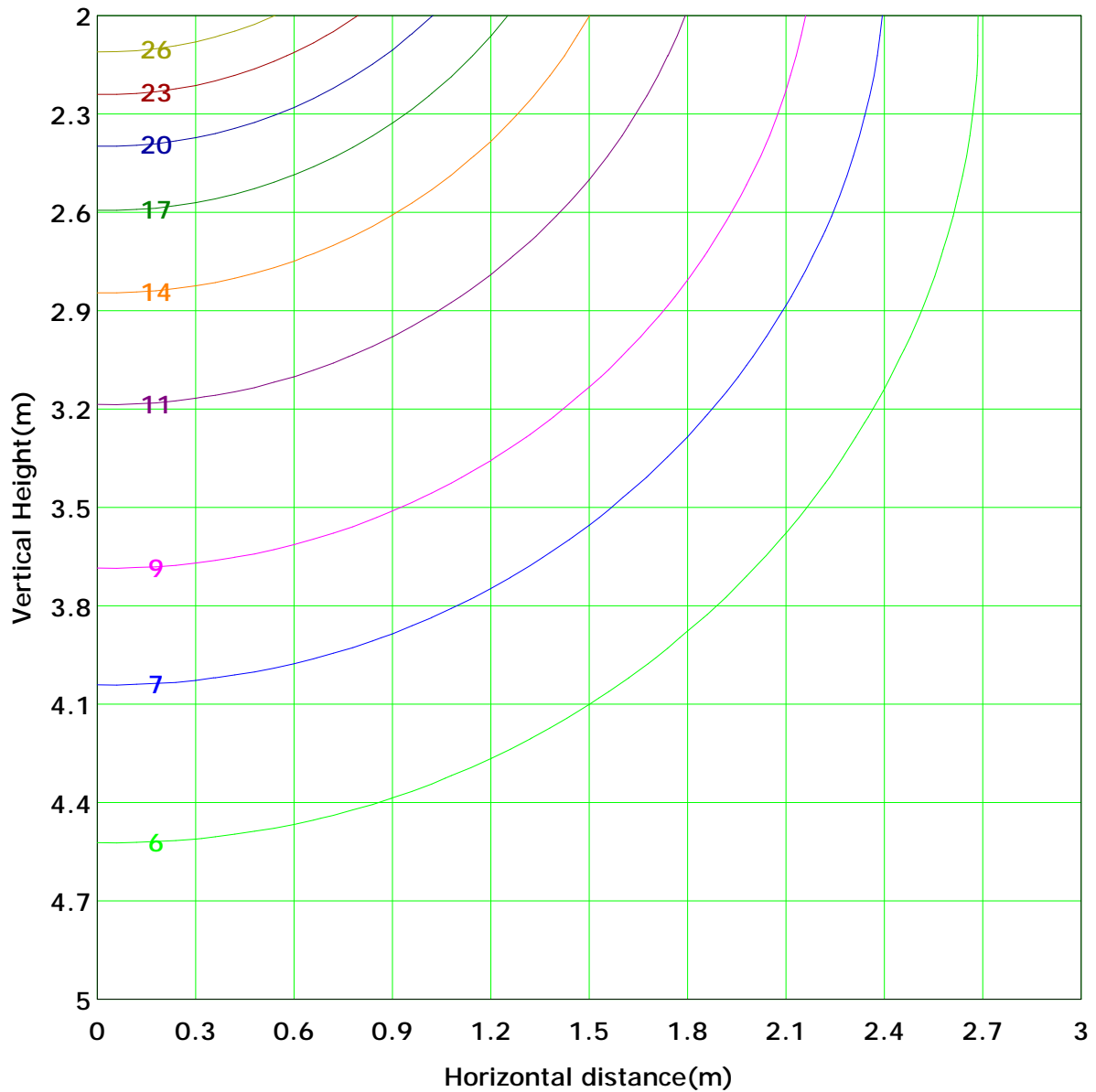


## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 28.3 lx
( 10%): 2.8 lx	( 20%): 5.7 lx	
( 25%): 7.1 lx	( 30%): 8.5 lx	
( 40%): 11.3 lx	( 50%): 14.2 lx	
( 60%): 17.0 lx	( 70%): 19.8 lx	
( 80%): 22.7 lx	( 90%): 25.5 lx	

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

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

## Area Flux Table

Unit: lm

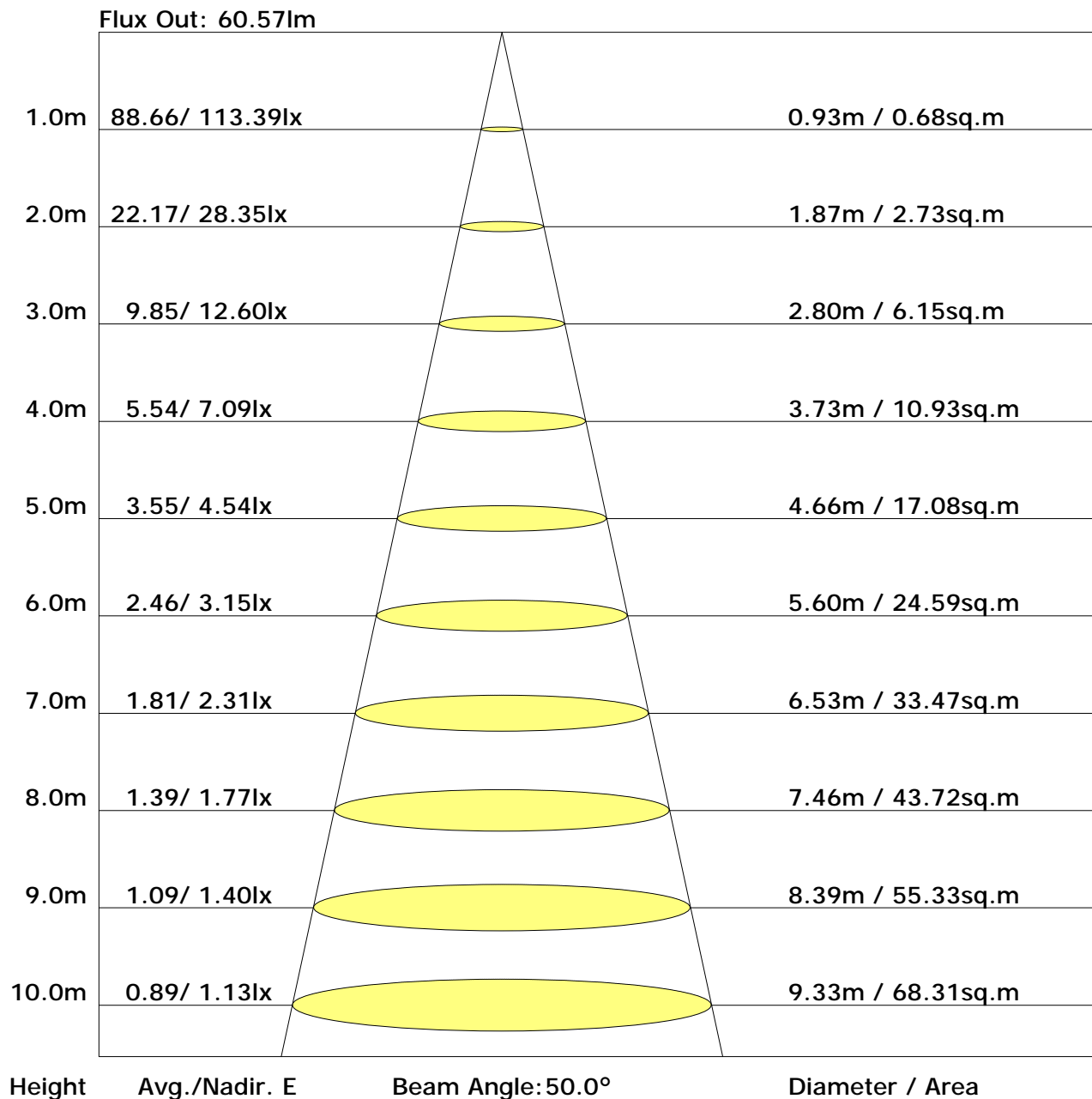
		Orbit: int																			
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
Vertical plane		-90	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	0.0	1.8	0.3
		-80	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	5.5	4.9
		-70	0.0	0.0	0.1	0.3	0.5	0.8	1.0	1.2	1.2	1.1	0.9	0.7	0.5	0.3	0.2	0.1	0.0	10.1	9.9
		-60	0.0	0.1	0.2	0.5	0.8	1.1	1.4	1.7	1.8	1.7	1.3	1.0	0.7	0.5	0.2	0.1	0.0	14.7	14.6
		-50	0.0	0.1	0.3	0.6	1.0	1.5	1.8	2.1	2.3	2.2	1.7	1.3	1.0	0.6	0.3	0.1	0.0	18.9	18.9
		-40	0.0	0.1	0.4	0.8	1.2	1.7	2.2	2.5	2.7	2.6	1.9	1.6	1.2	0.8	0.4	0.1	0.0	22.5	22.5
		-30	0.0	0.1	0.4	0.9	1.4	1.9	2.4	2.8	3.0	2.9	2.5	2.2	1.8	0.9	0.5	0.2	0.0	25.4	25.4
		-20	0.0	0.1	0.5	0.9	1.5	2.1	2.6	3.0	3.3	3.1	2.7	2.4	2.0	1.5	1.0	0.5	0.2	27.5	27.5
		-10	0.0	0.1	0.5	1.0	1.5	2.2	2.7	3.1	3.4	3.1	3.0	2.7	2.2	1.6	1.0	0.5	0.2	29.0	29.0
		0	0.0	0.1	0.5	1.0	1.5	2.1	2.6	3.0	3.1	3.4	3.2	2.8	2.3	1.6	1.1	0.5	0.2	29.1	29.0
		10	0.0	0.1	0.5	0.9	1.5	2.0	2.4	2.7	2.9	3.3	3.1	2.7	2.2	1.6	1.0	0.5	0.2	27.5	27.4
		20	0.0	0.1	0.4	0.8	1.3	1.8	2.2	2.4	2.8	3.0	2.8	2.5	2.0	1.5	0.9	0.5	0.2	25.3	25.2
		30	0.0	0.1	0.4	0.7	1.2	1.6	1.9	2.1	2.5	2.7	2.5	2.2	1.8	1.3	0.8	0.4	0.1	22.3	22.3
		40	0.0	0.1	0.3	0.6	1.0	1.3	1.5	1.8	2.2	2.3	2.1	1.8	1.5	1.1	0.7	0.3	0.1	18.7	18.7
		50	0.0	0.1	0.2	0.5	0.7	1.0	1.2	1.5	1.7	1.8	1.6	1.4	1.2	0.8	0.5	0.3	0.1	14.5	14.4
		60	0.0	0.0	0.1	0.3	0.5	0.6	0.8	1.0	1.2	1.2	1.1	1.0	0.8	0.6	0.4	0.2	0.1	9.9	9.7
		70	0.0	0.0	0.1	0.2	0.3	0.4	0.4	0.6	0.6	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.0	5.4	4.7
		80	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	1.8	0.1
		90	0.1	1.5	4.9	10.2	16.4	22.7	28.2	32.6	35.8	36.3	33.3	29.0	23.3	17.0	10.8	5.6	1.9	0.2	310
Flux(E)		0.0	1.0	4.6	9.9	16.1	22.4	27.9	32.3	35.5	35.9	33.0	28.6	23.0	16.7	10.5	5.3	1.6	0.0		304
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	
Horizontal plane																					

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

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: Nick

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	22.9	24.5	23.3	24.8	25.2	21.5	23.1	21.9	23.5	23.8
3H	24.7	26.2	25.1	26.6	26.9	23.1	24.5	23.4	24.9	25.2
4H	25.4	26.8	25.8	27.2	27.6	23.6	24.9	24.0	25.3	25.7
6H	25.9	27.2	26.3	27.6	28.0	23.9	25.2	24.3	25.6	26.0
8H	26.1	27.3	26.5	27.7	28.1	24.0	25.2	24.4	25.6	26.0
12H	26.2	27.3	26.6	27.7	28.2	24.0	25.2	24.5	25.6	26.0
X=4H Y=2H	23.3	24.6	23.7	25.0	25.4	22.1	23.5	22.6	23.9	24.3
3H	25.3	26.4	25.7	26.9	27.3	23.8	25.0	24.3	25.4	25.8
4H	26.1	27.1	26.5	27.5	28.0	24.4	25.5	24.9	25.9	26.4
6H	26.6	27.6	27.1	28.0	28.5	24.9	25.8	25.3	26.2	26.7
8H	26.8	27.7	27.3	28.1	28.6	25.0	25.8	25.4	26.3	26.8
12H	26.9	27.7	27.4	28.2	28.7	25.0	25.8	25.5	26.3	26.8
X=8H Y=4H	26.2	27.0	26.7	27.5	28.0	24.7	25.6	25.2	26.0	26.5
6H	26.8	27.5	27.3	28.1	28.6	25.2	25.9	25.7	26.4	26.9
8H	27.0	27.7	27.6	28.2	28.7	25.3	26.0	25.9	26.5	27.0
12H	27.2	27.8	27.7	28.3	28.9	25.5	26.0	26.0	26.5	27.1
X=12H Y=4H	26.2	27.0	26.7	27.5	28.0	24.7	25.5	25.2	26.0	26.5
6H	26.8	27.5	27.4	28.0	28.5	25.2	25.9	25.8	26.4	26.9
8H	27.1	27.6	27.6	28.2	28.7	25.4	26.0	25.9	26.5	27.1

Calculate in accordance with CIE 190:2010

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

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	0.56	0.67	0.74	0.79	0.87	0.92	0.95	1.00	1.03
	0.30		0.48	0.59	0.66	0.72	0.80	0.86	0.90	0.96	0.99
	0.20		0.42	0.53	0.61	0.67	0.75	0.81	0.86	0.92	0.96
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98
	0.30		0.47	0.58	0.65	0.70	0.78	0.83	0.87	0.92	0.95
	0.20		0.42	0.52	0.60	0.65	0.73	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.94
	0.30		0.46	0.56	0.63	0.69	0.76	0.81	0.84	0.89	0.92
	0.20		0.42	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85
Rating:5W 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	1.00	0.83	0.70	0.61	0.49	0.41	0.35	0.27	0.22	
	0.30		0.84	0.71	0.61	0.54	0.44	0.37	0.32	0.25	0.21	
	0.20		0.72	0.62	0.54	0.49	0.40	0.35	0.30	0.24	0.20	
0.50	0.50	0.20	0.96	0.79	0.67	0.59	0.47	0.42	0.33	0.26	0.21	
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.24	0.20	
	0.20		0.71	0.61	0.53	0.48	0.39	0.33	0.29	0.23	0.19	
0.30	0.50	0.20	0.93	0.76	0.65	0.56	0.45	0.37	0.32	0.24	0.20	
	0.30		0.80	0.67	0.58	0.51	0.41	0.35	0.30	0.23	0.19	
	0.20		0.70	0.60	0.52	0.47	0.38	0.32	0.28	0.22	0.19	
0.00	0.00	0.00	0.60	0.50	0.43	0.38	0.31	0.26	0.22	0.17	0.14	
Rating:5W 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	0.17	0.19	0.20	0.20	0.21	0.22	0.22	0.22	0.23
	0.30		0.11	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.19
	0.20		0.06	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Rating:5W 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	108.5	0.1	0.1	0.03	0.03
1.0-2.0	108.6	0.3	0.4	0.10	0.13
2.0-3.0	108.4	0.5	0.9	0.17	0.30
3.0-4.0	108.3	0.7	1.7	0.23	0.53
4.0-5.0	108.2	0.9	2.6	0.30	0.83
5.0-6.0	108.1	1.1	3.7	0.36	1.19
6.0-7.0	107.9	1.3	5.1	0.43	1.62
7.0-8.0	107.6	1.5	6.6	0.49	2.11
8.0-9.0	107.5	1.7	8.3	0.56	2.66
9.0-10.0	107.2	1.9	10.3	0.62	3.28
10.0-11.0	107.0	2.1	12.4	0.68	3.96
11.0-12.0	106.6	2.3	14.8	0.74	4.71
12.0-13.0	106.2	2.5	17.3	0.80	5.51
13.0-14.0	105.7	2.7	20.0	0.86	6.38
14.0-15.0	105.1	2.9	22.9	0.92	7.30
15.0-16.0	104.5	3.1	25.9	0.98	8.27
16.0-17.0	103.9	3.2	29.2	1.03	9.31
17.0-18.0	103.0	3.4	32.6	1.08	10.39
18.0-19.0	102.1	3.6	36.1	1.13	11.52
19.0-20.0	101.3	3.7	39.8	1.18	12.71
20.0-21.0	100.6	3.9	43.7	1.23	13.94
21.0-22.0	99.9	4.0	47.7	1.28	15.22
22.0-23.0	99.0	4.2	51.9	1.33	16.55
23.0-24.0	98.1	4.3	56.2	1.37	17.92
24.0-25.0	97.1	4.4	60.6	1.41	19.32
25.0-26.0	96.1	4.5	65.1	1.45	20.77
26.0-27.0	95.2	4.7	69.8	1.49	22.26
27.0-28.0	94.2	4.8	74.5	1.52	23.78
28.0-29.0	93.1	4.9	79.4	1.56	25.34
29.0-30.0	92.2	5.0	84.4	1.59	26.92
30.0-31.0	91.2	5.1	89.5	1.62	28.54
31.0-32.0	90.1	5.2	94.6	1.65	30.19
32.0-33.0	89.0	5.2	99.9	1.67	31.86
33.0-34.0	87.8	5.3	105.2	1.70	33.56
34.0-35.0	86.6	5.4	110.6	1.72	35.28
35.0-36.0	85.2	5.4	116.0	1.73	37.01

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

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	83.9	5.5	121.5	1.75	38.75
37.0-38.0	82.6	5.5	127.0	1.76	40.51
38.0-39.0	81.2	5.5	132.5	1.77	42.28
39.0-40.0	79.9	5.6	138.1	1.78	44.06
40.0-41.0	78.5	5.6	143.7	1.78	45.84
41.0-42.0	77.1	5.6	149.3	1.79	47.63
42.0-43.0	75.7	5.6	154.9	1.79	49.42
43.0-44.0	74.3	5.6	160.5	1.79	51.21
44.0-45.0	72.8	5.6	166.1	1.79	53.00
45.0-46.0	71.4	5.6	171.7	1.78	54.78
46.0-47.0	69.9	5.6	177.3	1.77	56.55
47.0-48.0	68.4	5.5	182.8	1.76	58.32
48.0-49.0	66.8	5.5	188.3	1.75	60.07
49.0-50.0	65.3	5.4	193.7	1.74	61.81
50.0-51.0	63.7	5.4	199.1	1.72	63.52
51.0-52.0	62.0	5.3	204.4	1.70	65.22
52.0-53.0	60.4	5.3	209.7	1.68	66.90
53.0-54.0	58.8	5.2	214.9	1.65	68.55
54.0-55.0	57.1	5.1	220.0	1.63	70.18
55.0-56.0	55.4	5.0	225.0	1.60	71.78
56.0-57.0	53.7	4.9	229.9	1.57	73.34
57.0-58.0	51.9	4.8	234.7	1.53	74.88
58.0-59.0	50.1	4.7	239.4	1.49	76.37
59.0-60.0	48.2	4.6	243.9	1.45	77.82
60.0-61.0	46.5	4.4	248.4	1.42	79.24
61.0-62.0	44.7	4.3	252.7	1.38	80.61
62.0-63.0	42.9	4.2	256.8	1.33	81.95
63.0-64.0	41.1	4.0	260.9	1.29	83.23
64.0-65.0	39.3	3.9	264.8	1.24	84.47
65.0-66.0	37.5	3.7	268.5	1.19	85.67
66.0-67.0	35.7	3.6	272.1	1.15	86.81
67.0-68.0	33.9	3.4	275.5	1.10	87.91
68.0-69.0	32.1	3.3	278.8	1.05	88.96
69.0-70.0	30.3	3.1	281.9	0.99	89.95
70.0-71.0	28.5	2.9	284.9	0.94	90.89
71.0-72.0	26.7	2.8	287.6	0.88	91.77

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

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	24.9	2.6	290.2	0.83	92.60
73.0-74.0	23.1	2.4	292.7	0.78	93.38
74.0-75.0	21.4	2.3	294.9	0.72	94.10
75.0-76.0	19.6	2.1	297.0	0.66	94.77
76.0-77.0	17.9	1.9	298.9	0.61	95.37
77.0-78.0	16.2	1.7	300.7	0.55	95.93
78.0-79.0	14.5	1.6	302.2	0.50	96.42
79.0-80.0	12.9	1.4	303.6	0.44	96.87
80.0-81.0	11.4	1.2	304.8	0.39	97.26
81.0-82.0	9.9	1.1	305.9	0.34	97.60
82.0-83.0	8.4	0.9	306.8	0.29	97.89
83.0-84.0	7.1	0.8	307.6	0.25	98.14
84.0-85.0	5.9	0.6	308.3	0.21	98.35
85.0-86.0	4.8	0.5	308.8	0.17	98.52
86.0-87.0	3.9	0.4	309.2	0.13	98.65
87.0-88.0	3.0	0.3	309.5	0.10	98.76
88.0-89.0	2.3	0.3	309.8	0.08	98.84
89.0-90.0	1.7	0.2	310.0	0.06	98.90
90.0-91.0	1.3	0.1	310.1	0.04	98.94
91.0-92.0	0.9	0.1	310.2	0.03	98.98
92.0-93.0	0.7	0.1	310.3	0.03	99.00
93.0-94.0	0.6	0.1	310.4	0.02	99.02
94.0-95.0	0.4	0.0	310.4	0.02	99.04
95.0-96.0	0.4	0.0	310.4	0.01	99.05
96.0-97.0	0.3	0.0	310.5	0.01	99.06
97.0-98.0	0.3	0.0	310.5	0.01	99.07
98.0-99.0	0.3	0.0	310.5	0.01	99.08
99.0-100.0	0.3	0.0	310.6	0.01	99.09
100.0-101.0	0.3	0.0	310.6	0.01	99.10
101.0-102.0	0.3	0.0	310.6	0.01	99.11
102.0-103.0	0.3	0.0	310.7	0.01	99.12
103.0-104.0	0.3	0.0	310.7	0.01	99.13
104.0-105.0	0.3	0.0	310.7	0.01	99.14
105.0-106.0	0.3	0.0	310.7	0.01	99.15
106.0-107.0	0.3	0.0	310.8	0.01	99.16
107.0-108.0	0.3	0.0	310.8	0.01	99.17

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

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	0.3	0.0	310.9	0.01	99.18
109.0-110.0	0.3	0.0	310.9	0.01	99.19
110.0-111.0	0.4	0.0	310.9	0.01	99.20
111.0-112.0	0.4	0.0	311.0	0.01	99.21
112.0-113.0	0.4	0.0	311.0	0.01	99.23
113.0-114.0	0.4	0.0	311.0	0.01	99.24
114.0-115.0	0.4	0.0	311.1	0.01	99.25
115.0-116.0	0.4	0.0	311.1	0.01	99.26
116.0-117.0	0.4	0.0	311.2	0.01	99.28
117.0-118.0	0.4	0.0	311.2	0.01	99.29
118.0-119.0	0.5	0.0	311.2	0.01	99.30
119.0-120.0	0.5	0.0	311.3	0.01	99.32
120.0-121.0	0.5	0.0	311.3	0.01	99.33
121.0-122.0	0.5	0.0	311.4	0.01	99.35
122.0-123.0	0.5	0.0	311.4	0.01	99.36
123.0-124.0	0.5	0.0	311.5	0.01	99.38
124.0-125.0	0.5	0.0	311.5	0.01	99.39
125.0-126.0	0.5	0.0	311.6	0.02	99.41
126.0-127.0	0.5	0.0	311.6	0.02	99.42
127.0-128.0	0.6	0.0	311.7	0.02	99.44
128.0-129.0	0.6	0.0	311.7	0.02	99.45
129.0-130.0	0.6	0.0	311.8	0.02	99.47
130.0-131.0	0.6	0.0	311.8	0.02	99.48
131.0-132.0	0.6	0.0	311.9	0.02	99.50
132.0-133.0	0.6	0.0	311.9	0.02	99.51
133.0-134.0	0.6	0.0	312.0	0.02	99.53
134.0-135.0	0.6	0.0	312.0	0.02	99.55
135.0-136.0	0.6	0.0	312.0	0.02	99.56
136.0-137.0	0.6	0.0	312.1	0.02	99.58
137.0-138.0	0.7	0.0	312.1	0.02	99.59
138.0-139.0	0.7	0.0	312.2	0.02	99.61
139.0-140.0	0.7	0.0	312.2	0.02	99.62
140.0-141.0	0.7	0.0	312.3	0.02	99.64
141.0-142.0	0.7	0.0	312.3	0.02	99.65
142.0-143.0	0.7	0.0	312.4	0.02	99.67
143.0-144.0	0.7	0.0	312.4	0.01	99.68

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

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	0.7	0.0	312.5	0.02	99.70
145.0-146.0	0.8	0.0	312.5	0.01	99.71
146.0-147.0	0.8	0.0	312.6	0.01	99.73
147.0-148.0	0.8	0.0	312.6	0.01	99.74
148.0-149.0	0.8	0.0	312.7	0.01	99.76
149.0-150.0	0.8	0.0	312.7	0.01	99.77
150.0-151.0	0.8	0.0	312.7	0.01	99.78
151.0-152.0	0.8	0.0	312.8	0.01	99.80
152.0-153.0	0.8	0.0	312.8	0.01	99.81
153.0-154.0	0.8	0.0	312.9	0.01	99.82
154.0-155.0	0.8	0.0	312.9	0.01	99.84
155.0-156.0	0.8	0.0	312.9	0.01	99.85
156.0-157.0	0.8	0.0	313.0	0.01	99.86
157.0-158.0	0.8	0.0	313.0	0.01	99.87
158.0-159.0	0.8	0.0	313.1	0.01	99.88
159.0-160.0	0.8	0.0	313.1	0.01	99.89
160.0-161.0	0.9	0.0	313.1	0.01	99.90
161.0-162.0	0.9	0.0	313.1	0.01	99.91
162.0-163.0	0.9	0.0	313.2	0.01	99.92
163.0-164.0	0.9	0.0	313.2	0.01	99.93
164.0-165.0	0.9	0.0	313.2	0.01	99.94
165.0-166.0	0.9	0.0	313.3	0.01	99.95
166.0-167.0	0.9	0.0	313.3	0.01	99.95
167.0-168.0	0.9	0.0	313.3	0.01	99.96
168.0-169.0	0.9	0.0	313.3	0.01	99.97
169.0-170.0	0.9	0.0	313.3	0.01	99.97
170.0-171.0	0.9	0.0	313.4	0.01	99.98
171.0-172.0	0.9	0.0	313.4	0.00	99.98
172.0-173.0	0.9	0.0	313.4	0.00	99.99
173.0-174.0	0.9	0.0	313.4	0.00	99.99
174.0-175.0	0.9	0.0	313.4	0.00	99.99
175.0-176.0	0.9	0.0	313.4	0.00	100.00
176.0-177.0	0.9	0.0	313.4	0.00	100.00
177.0-178.0	0.9	0.0	313.4	0.00	100.00
178.0-179.0	1.0	0.0	313.4	0.00	100.00
179.0-180.0	1.0	0.0	313.4	0.00	100.00

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

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