

Report No.:

Test Time: 2023/8/30 18:13

## Luminaire Property

Luminaire Manufacturer: ACOLYTE

Luminaire Category: CHANNEL

Luminaire Description: CHAC2F90SWS2203.030

Luminous Length (mm): 500

Luminous Width (mm): 16

Luminous Height (mm): 16

Voltage: 24.0 V

Current: 0.204 A

Power: 4.91 W

Power Factor: 1.000

## Photometric Results

CIE Class: Semi-Direct

Total Rated Lamp Lumens: 478.6 lm

Measurement Flux: 478.6 lm

Efficiency: 100%

Downward Ratio: 85%

Upward Ratio: 15%

Horizontal Diffuse Angle(10%,50%): H151.8,H101.8

Vertical Diffuse Angle(10%,50%): V159.2,V120.1

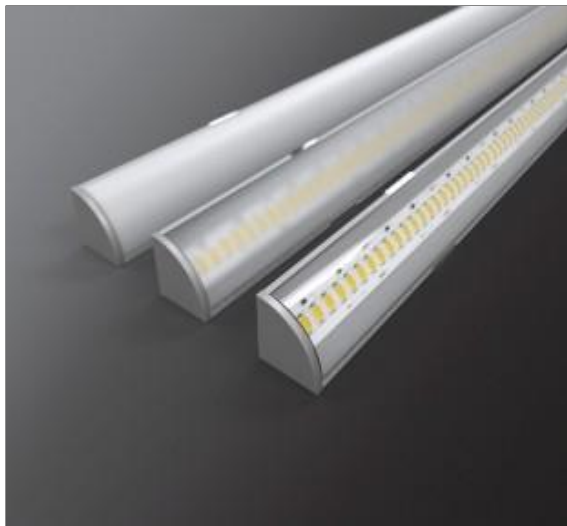
Luminaire Efficacy Rating (LER): 97

Central Intensity: 114.65 cd

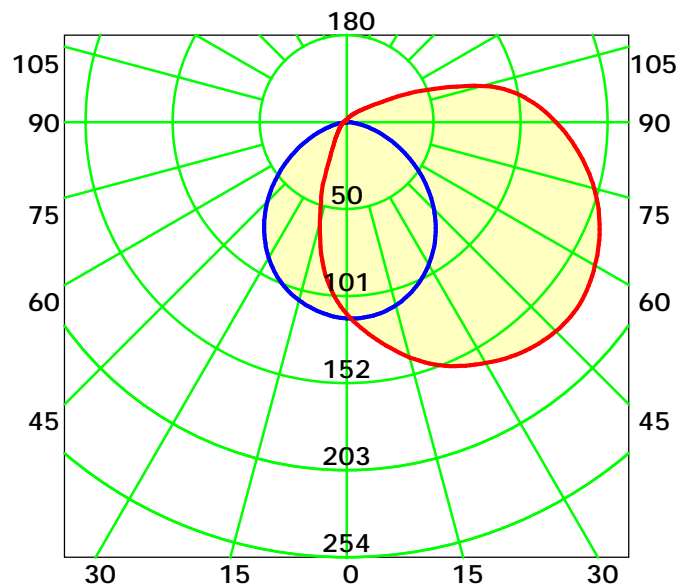
Max. Intensity: 173.2 cd

Pos of Max. Intensity: H90 V48

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 111.0° 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

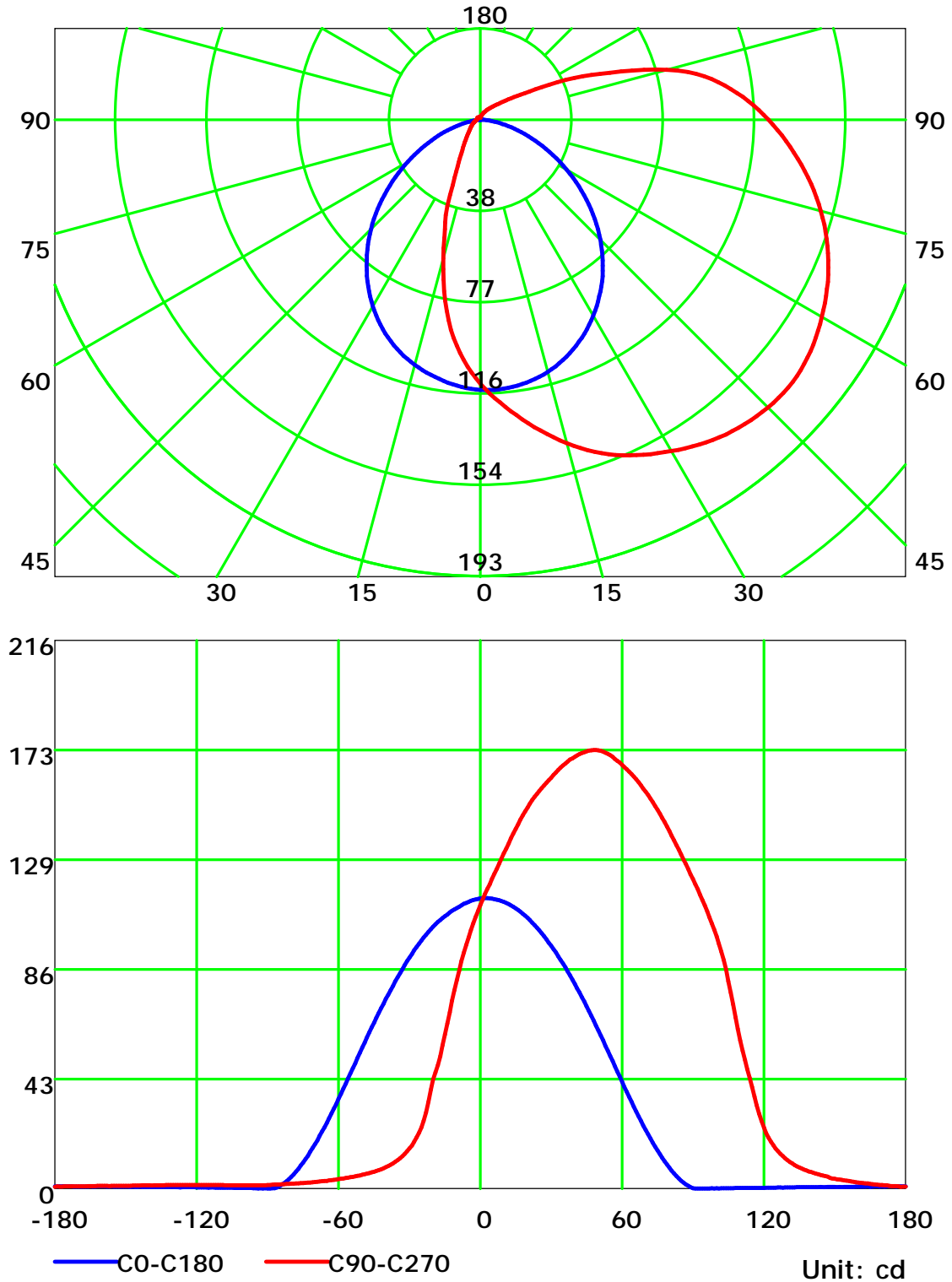
Distance: 9.028 m

Humidity: 60%

Inspector:



## Luminous Intensity Distribution Curve

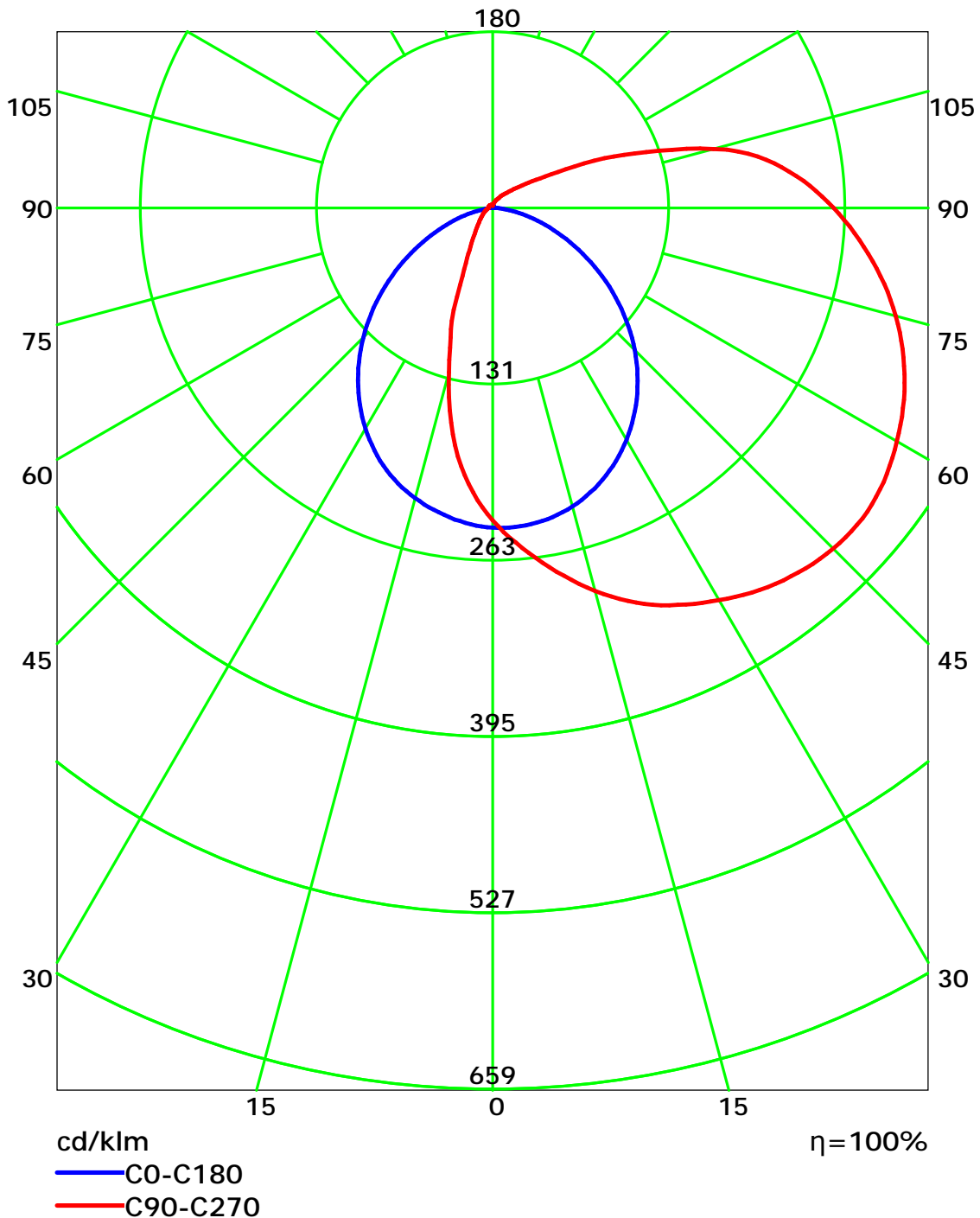


C Plane (°): 0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

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:

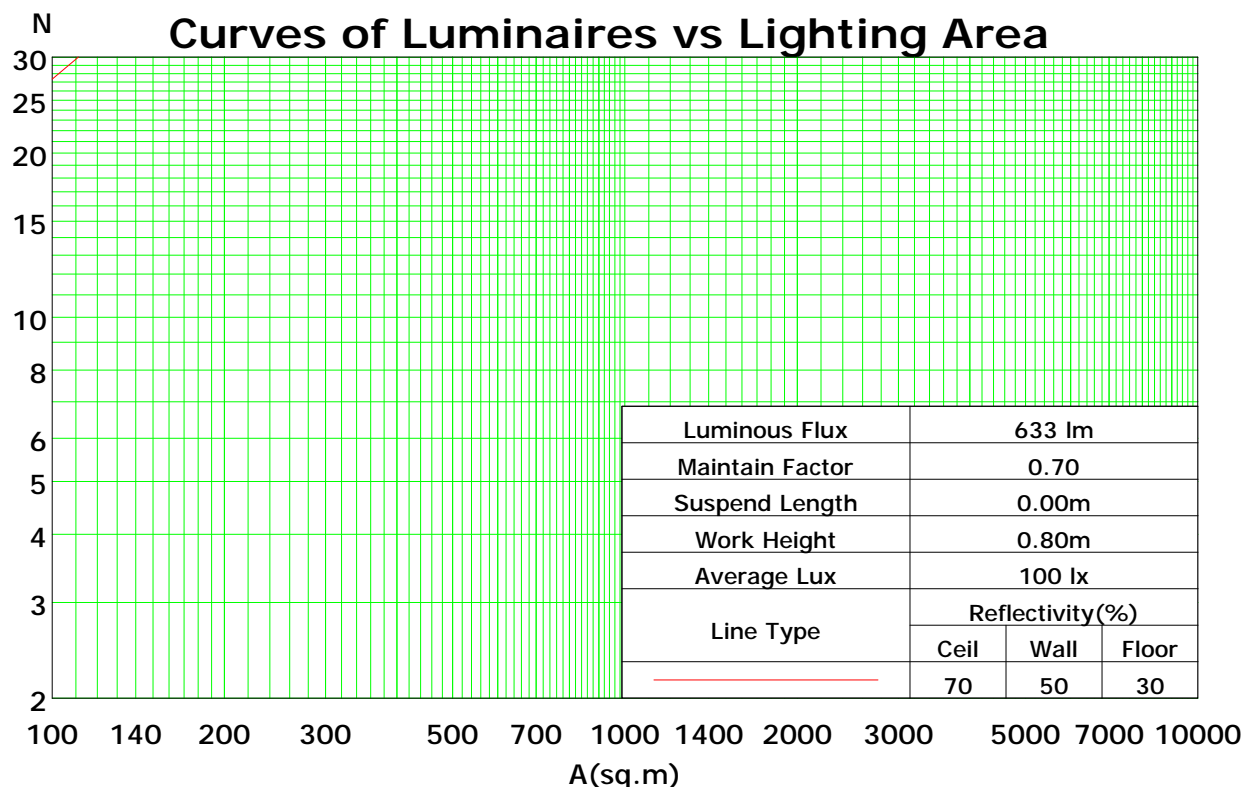
## Coefficients Of Utilization - Zonal Cavity Method

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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	88	88	88	85
1	102	95	90	85	97	92	87	82	85	80	77	78	75	72	72	69	67	64
2	91	81	73	66	87	78	71	64	72	66	61	66	61	57	61	57	54	50
3	82	70	61	54	78	68	59	52	62	55	49	58	52	47	53	48	44	41
4	75	62	52	45	71	59	50	44	55	47	41	51	44	39	47	41	37	34
5	69	55	45	38	65	53	44	37	49	41	35	45	39	33	42	36	32	29
6	63	49	40	33	60	47	38	32	44	36	30	41	34	29	38	32	28	25
7	58	44	35	29	56	43	34	28	40	32	27	37	30	26	34	29	24	22
8	54	40	31	25	52	39	31	25	36	29	24	34	27	23	32	26	22	20
9	51	37	28	23	48	36	28	22	33	26	21	31	25	20	29	24	19	17
10	47	34	26	20	45	33	25	20	31	24	19	29	23	18	27	22	18	16

Spacing Criteria (0-180): 1.22

Spacing Criteria (90-270): 1.21

Spacing Criteria (Diagonal): 1.36



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

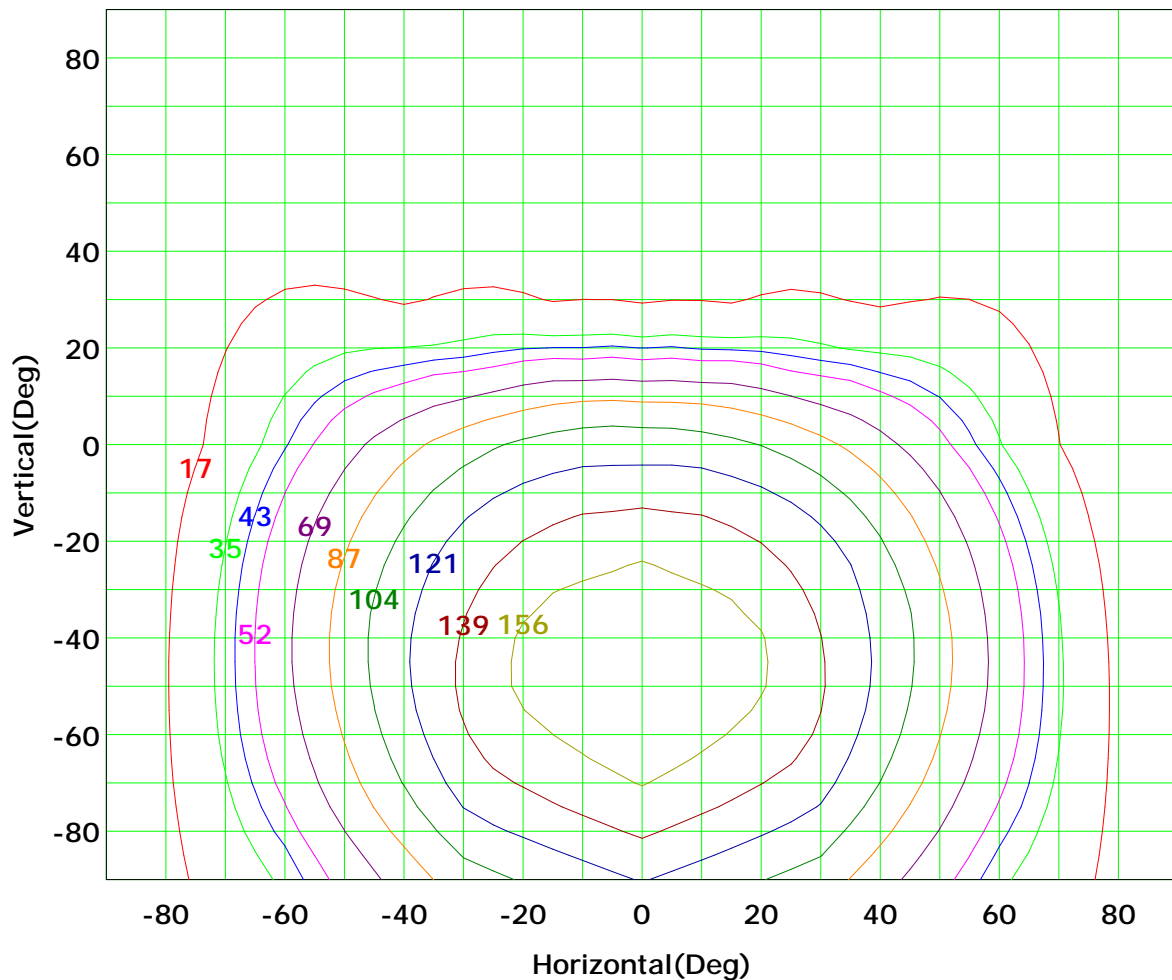
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



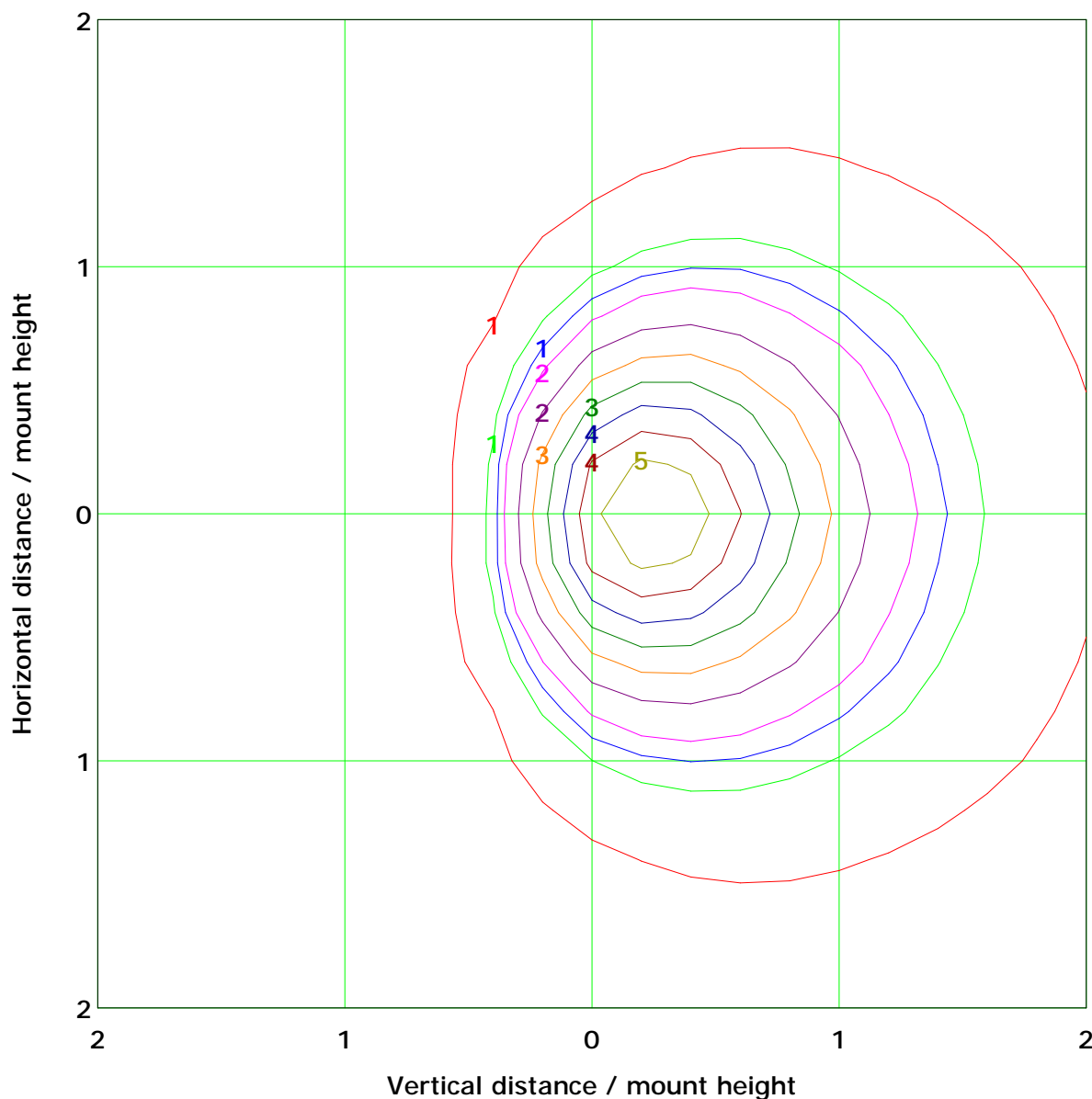
I<sub>max</sub> (100%): 173 cd

( 10%):	17 cd	( 20%):	35 cd
( 25%):	43 cd	( 30%):	52 cd
( 40%):	69 cd	( 50%):	87 cd
( 60%):	104 cd	( 70%):	121 cd
( 80%):	139 cd	( 90%):	156 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%): 5.1 lx			
( 10%):	0.5 lx	( 20%):	1.0 lx
( 25%):	1.3 lx	( 30%):	1.5 lx
( 40%):	2.0 lx	( 50%):	2.6 lx
( 60%):	3.1 lx	( 70%):	3.6 lx
( 80%):	4.1 lx	( 90%):	4.6 lx

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

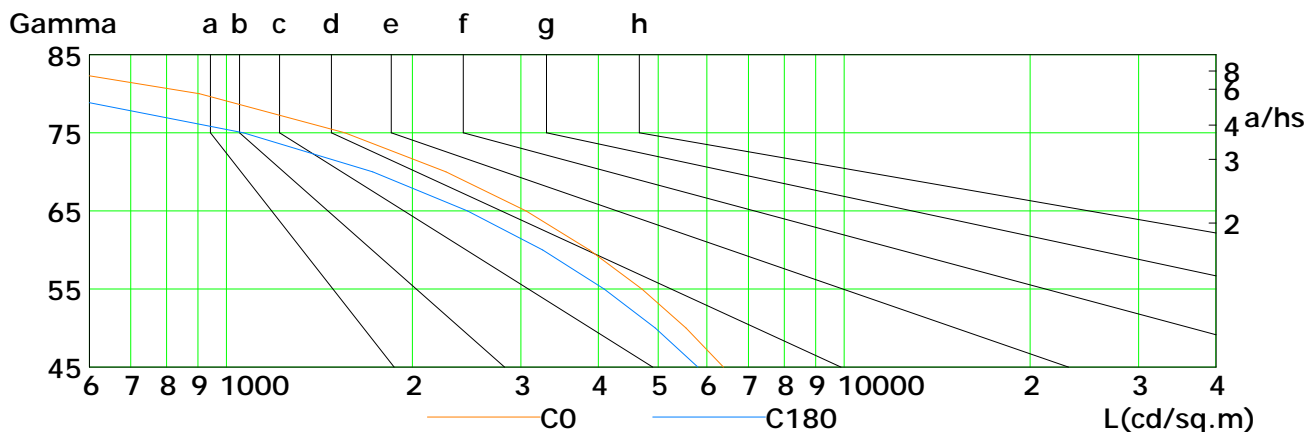
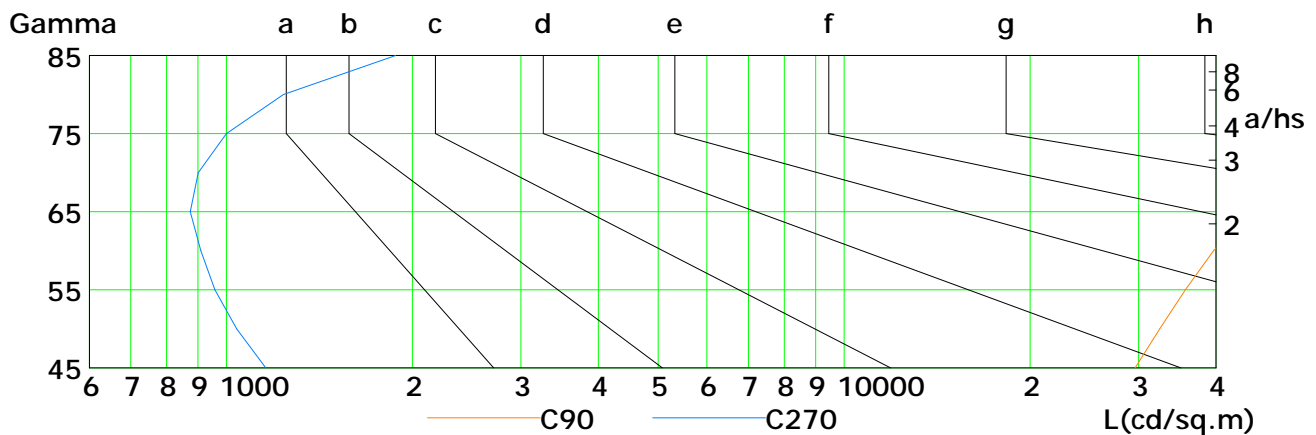
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:



## 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



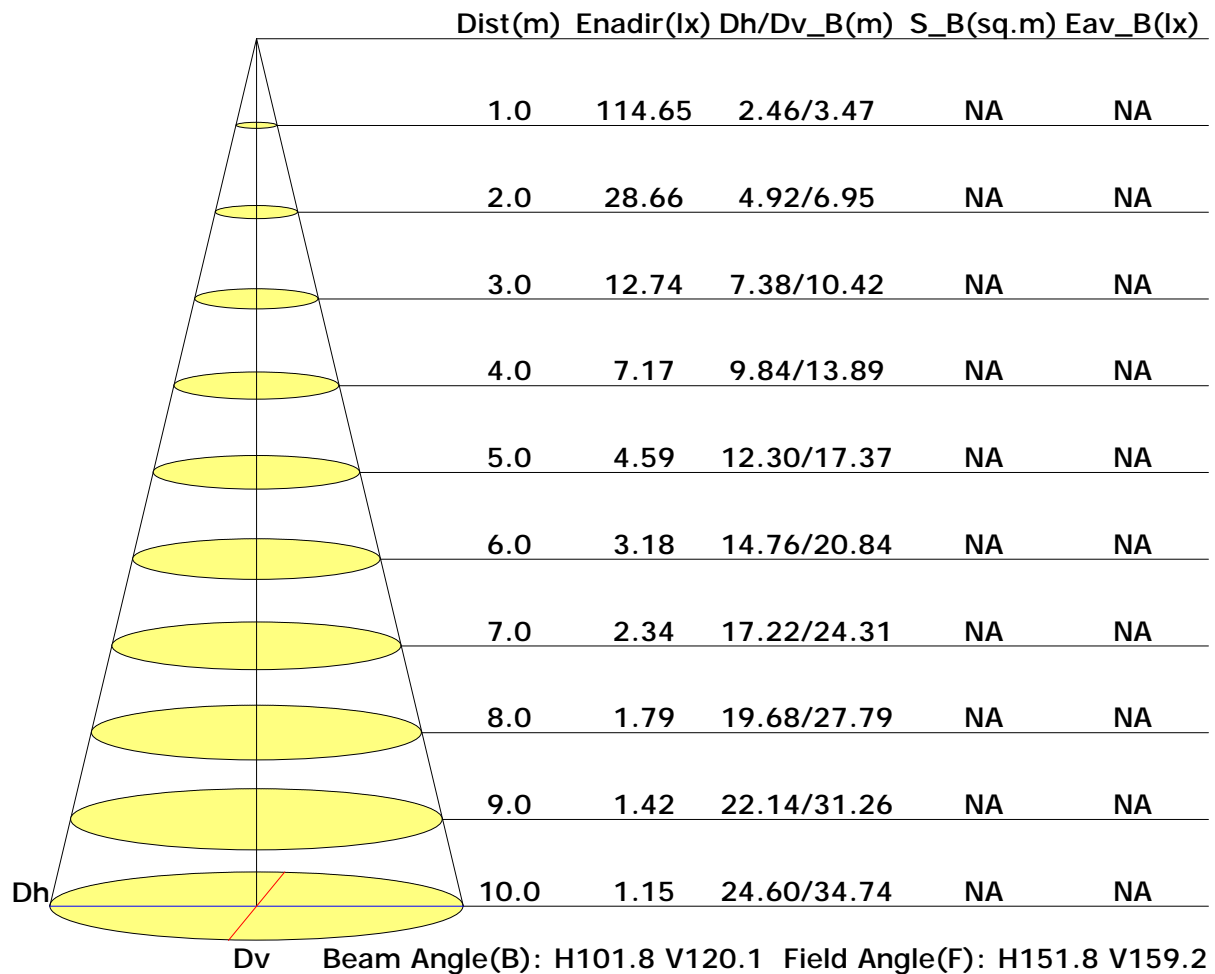
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	6381	5548	4708	3871	3055	2268	1555	905	374
C90	29590	32431	35683	39643	45063	52679	64560	86066	138658
C180	5800	4952	4089	3252	2457	1726	1066	508	129
C270	1158	1040	959	910	875	900	1001	1237	1880

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:

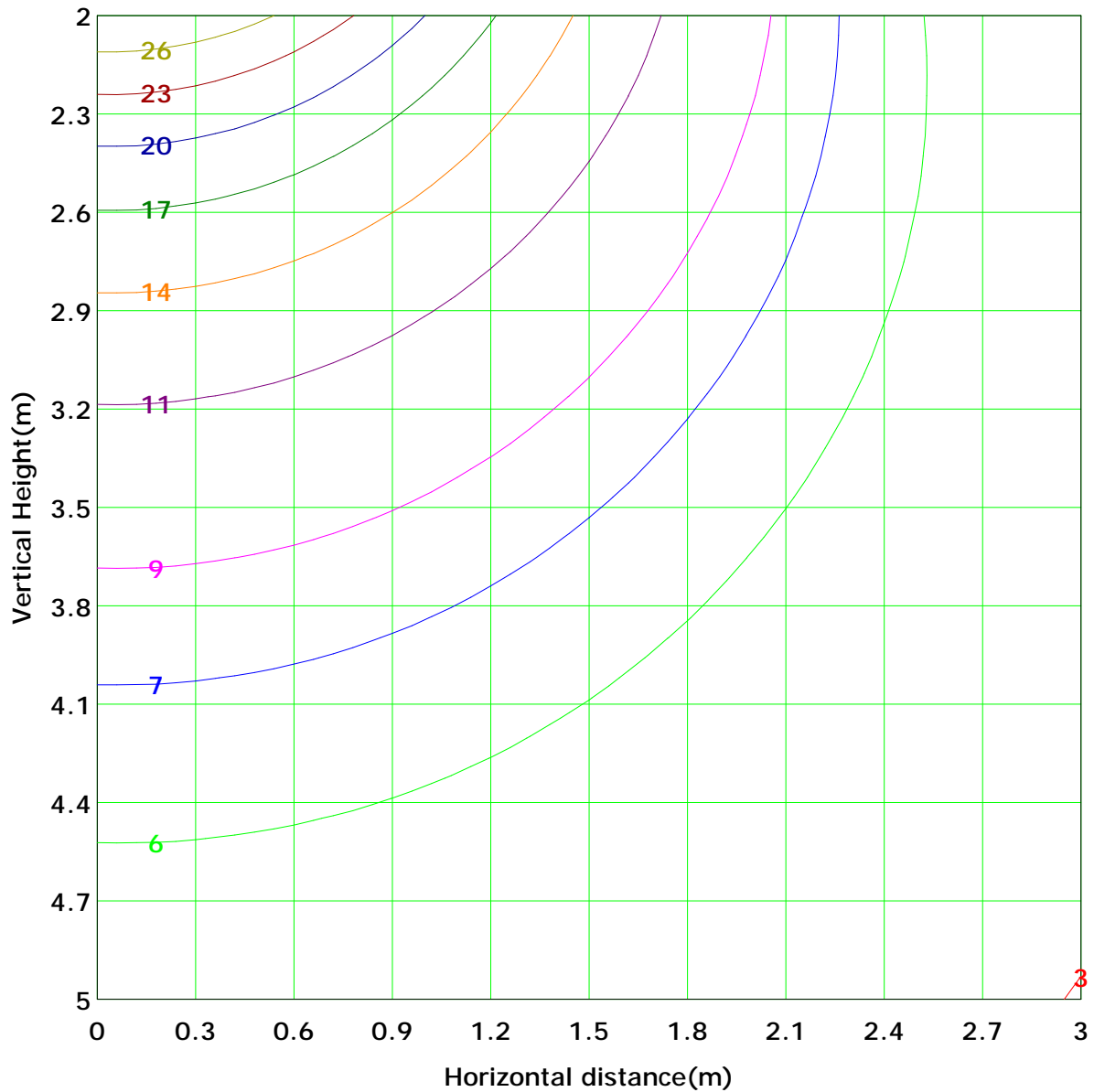


## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 28.7 lx
( 10%): 2.9 lx	( 20%): 5.7 lx	
( 25%): 7.2 lx	( 30%): 8.6 lx	
( 40%): 11.5 lx	( 50%): 14.3 lx	
( 60%): 17.2 lx	( 70%): 20.1 lx	
( 80%): 22.9 lx	( 90%): 25.8 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

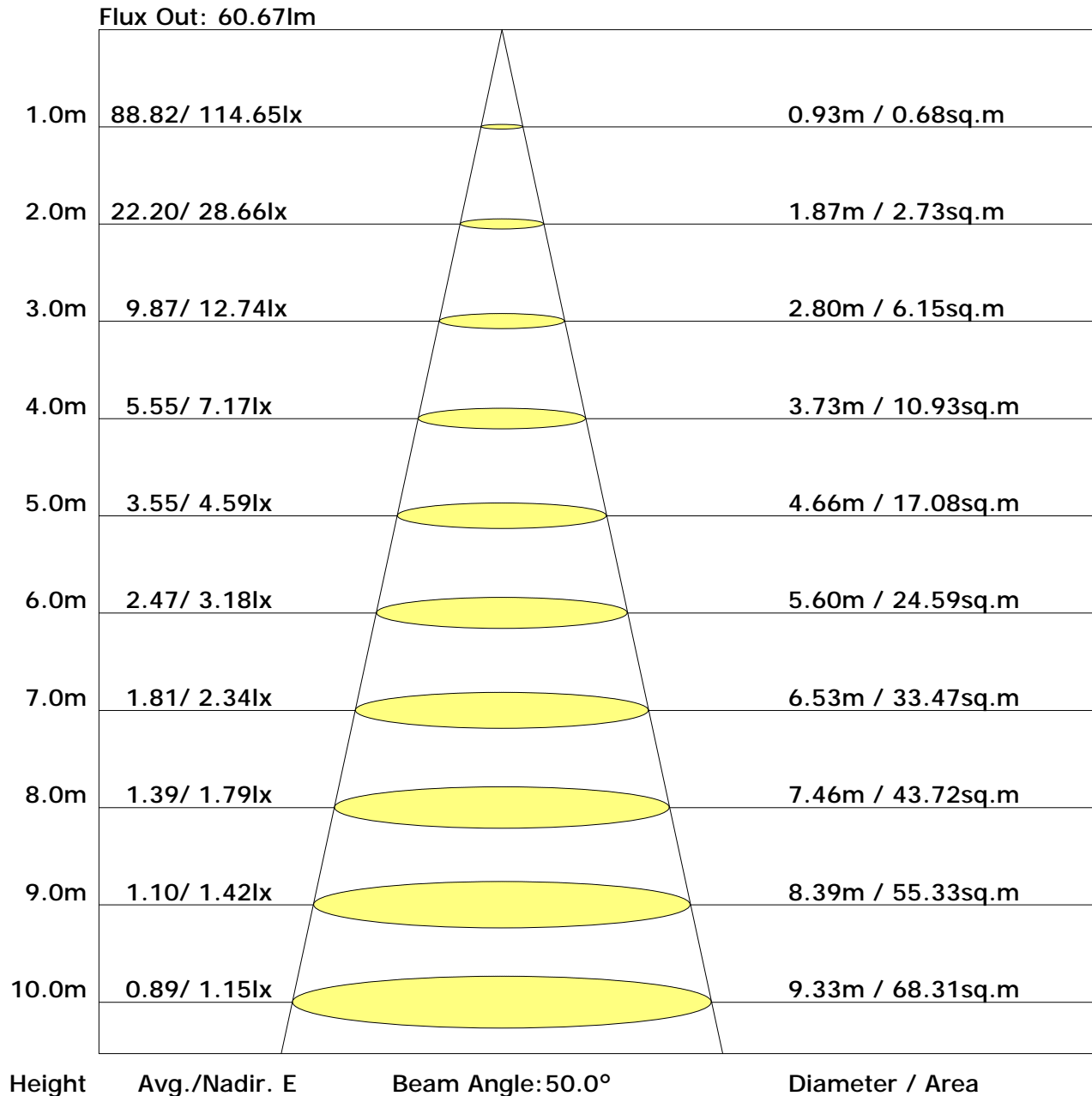
		Vertical plane																		Horizontal plane									
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)							
Vertical plane	-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0							
	-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.5							
	-70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.7	0.0							
	-60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.0	0.0								
	-50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	1.6	0.0								
	-40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2.6	0.0								
	-30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	4.4	0.4								
	-20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	8.6	8.1								
	-10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	16.6	16.3								
	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	25.1	25.0								
	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	31.6	31.4								
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	36.5	36.4								
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	40.2	40.2								
	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	42.6	42.5								
	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	43.7	43.6								
	60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	43.0	42.9								
	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	40.5	40.4								
	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	36.7	36.6								
	90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	31.7	31.6								
	Flux(T)	0.2	1.9	6.1	12.8	21.1	30.0	38.3	44.0	47.5	47.6	44.3	38.8	30.6	21.7	13.4	6.7	2.3	0.3	408									
Flux(E)	0.0	1.3	5.6	12.2	20.4	29.2	37.5	43.0	46.5	46.7	43.4	38.0	29.8	21.0	12.9	6.2	1.7	0.0			395								

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	20.7	22.2	21.3	22.8	23.4	25.9	27.3	26.4	27.9	28.6
3H	22.4	23.7	22.9	24.3	25.0	28.5	29.8	29.1	30.4	31.1
4H	22.9	24.2	23.5	24.8	25.5	29.8	31.0	30.4	31.6	32.3
6H	23.3	24.5	23.9	25.1	25.9	31.0	32.2	31.6	32.8	33.5
8H	23.4	24.6	24.1	25.2	25.9	31.6	32.7	32.2	33.3	34.1
12H	23.5	24.6	24.1	25.2	26.0	32.1	33.2	32.7	33.9	34.6
X=4H Y=2H	22.0	23.3	22.6	23.9	24.6	26.4	27.7	27.0	28.3	29.0
3H	24.0	25.1	24.6	25.7	26.4	29.4	30.5	30.0	31.1	31.8
4H	24.7	25.8	25.4	26.4	27.2	30.8	31.8	31.4	32.5	33.2
6H	25.3	26.2	26.0	26.9	27.7	32.2	33.1	32.9	33.8	34.6
8H	25.5	26.4	26.2	27.0	27.8	32.9	33.7	33.5	34.4	35.2
12H	25.6	26.4	26.3	27.1	27.9	33.6	34.3	34.2	35.0	35.8
X=8H Y=4H	25.8	26.6	26.4	27.3	28.1	31.1	32.0	31.8	32.7	33.4
6H	26.6	27.4	27.3	28.1	28.9	32.8	33.5	33.5	34.2	35.0
8H	27.0	27.6	27.7	28.4	29.1	33.6	34.3	34.3	35.0	35.8
12H	27.2	27.8	27.9	28.5	29.4	34.5	35.1	35.2	35.8	36.6
X=12H Y=4H	26.0	26.8	26.7	27.5	28.3	31.2	31.9	31.8	32.6	33.4
6H	27.1	27.7	27.8	28.4	29.2	32.9	33.5	33.6	34.2	35.1
8H	27.5	28.1	28.2	28.8	29.7	33.8	34.4	34.5	35.1	35.9

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	0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.93	
	0.30		0.38	0.47	0.54	0.59	0.68	0.73	0.78	0.84	0.88	
	0.20		0.32	0.41	0.48	0.53	0.61	0.67	0.72	0.79	0.83	
0.50	0.50	0.20	0.43	0.52	0.58	0.63	0.69	0.74	0.78	0.82	0.86	
	0.30		0.36	0.45	0.51	0.56	0.63	0.69	0.72	0.78	0.82	
	0.20		0.31	0.39	0.45	0.50	0.58	0.64	0.68	0.74	0.78	
0.30	0.50	0.20	0.41	0.48	0.54	0.58	0.64	0.69	0.72	0.76	0.79	
	0.30		0.34	0.42	0.48	0.53	0.59	0.64	0.68	0.73	0.76	
	0.20		0.29	0.37	0.43	0.48	0.55	0.60	0.64	0.69	0.73	
0.00	0.00	0.00	0.26	0.33	0.38	0.42	0.49	0.53	0.57	0.62	0.65	
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	1.07	0.91	0.80	0.71	0.59	0.50	0.44	0.35	0.30
	0.30		0.89	0.78	0.70	0.63	0.53	0.46	0.41	0.33	0.28
	0.20		0.77	0.68	0.62	0.57	0.49	0.43	0.38	0.32	0.27
0.50	0.50	0.20	1.00	0.86	0.75	0.67	0.55	0.50	0.41	0.33	0.28
	0.30		0.85	0.74	0.66	0.60	0.50	0.44	0.39	0.32	0.27
	0.20		0.74	0.66	0.59	0.54	0.46	0.41	0.36	0.30	0.26
0.30	0.50	0.20	0.95	0.80	0.70	0.62	0.52	0.44	0.39	0.31	0.27
	0.30		0.81	0.70	0.63	0.57	0.48	0.41	0.37	0.30	0.25
	0.20		0.71	0.63	0.57	0.52	0.44	0.39	0.35	0.29	0.25
0.00	0.00	0.00	0.60	0.52	0.47	0.43	0.37	0.32	0.28	0.24	0.20
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	0.31	0.33	0.34	0.34	0.35	0.36	0.36	0.36	0.37
	0.30		0.24	0.25	0.27	0.28	0.29	0.30	0.31	0.32	0.33
	0.20		0.19	0.20	0.21	0.22	0.24	0.26	0.27	0.29	0.30
0.50	0.50	0.20	0.30	0.32	0.32	0.33	0.34	0.34	0.34	0.35	0.35
	0.30		0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32
	0.20		0.19	0.20	0.21	0.22	0.24	0.25	0.26	0.28	0.29
0.30	0.50	0.20	0.29	0.30	0.31	0.32	0.32	0.33	0.33	0.33	0.34
	0.30		0.23	0.24	0.25	0.26	0.28	0.28	0.29	0.30	0.31
	0.20		0.18	0.20	0.21	0.22	0.23	0.25	0.26	0.27	0.28
0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
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	113.1	0.1	0.1	0.02	0.02
1.0-2.0	113.0	0.3	0.4	0.07	0.09
2.0-3.0	112.9	0.5	1.0	0.11	0.20
3.0-4.0	112.6	0.8	1.7	0.16	0.36
4.0-5.0	112.3	1.0	2.7	0.20	0.56
5.0-6.0	112.0	1.2	3.9	0.25	0.81
6.0-7.0	111.6	1.4	5.3	0.29	1.10
7.0-8.0	111.1	1.6	6.8	0.33	1.43
8.0-9.0	110.6	1.8	8.6	0.37	1.80
9.0-10.0	110.0	2.0	10.6	0.42	2.22
10.0-11.0	109.3	2.2	12.8	0.46	2.68
11.0-12.0	108.5	2.4	15.2	0.50	3.17
12.0-13.0	107.7	2.6	17.7	0.53	3.71
13.0-14.0	106.7	2.7	20.5	0.57	4.28
14.0-15.0	105.7	2.9	23.4	0.61	4.88
15.0-16.0	104.7	3.1	26.4	0.64	5.53
16.0-17.0	103.7	3.2	29.7	0.67	6.20
17.0-18.0	102.6	3.4	33.1	0.71	6.91
18.0-19.0	101.6	3.5	36.6	0.74	7.65
19.0-20.0	100.6	3.7	40.3	0.77	8.42
20.0-21.0	99.6	3.8	44.1	0.80	9.21
21.0-22.0	98.5	4.0	48.1	0.83	10.04
22.0-23.0	97.4	4.1	52.1	0.85	10.90
23.0-24.0	96.2	4.2	56.4	0.88	11.77
24.0-25.0	94.9	4.3	60.7	0.90	12.68
25.0-26.0	93.6	4.4	65.1	0.92	13.60
26.0-27.0	92.5	4.5	69.6	0.95	14.55
27.0-28.0	91.4	4.6	74.2	0.97	15.51
28.0-29.0	90.3	4.7	79.0	0.99	16.50
29.0-30.0	89.4	4.8	83.8	1.01	17.51
30.0-31.0	88.5	4.9	88.7	1.03	18.54
31.0-32.0	87.6	5.0	93.7	1.05	19.59
32.0-33.0	86.8	5.1	98.9	1.07	20.65
33.0-34.0	86.0	5.2	104.1	1.09	21.74
34.0-35.0	85.3	5.3	109.4	1.11	22.85
35.0-36.0	84.6	5.4	114.7	1.13	23.97

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	83.8	5.5	120.2	1.14	25.12
37.0-38.0	83.0	5.5	125.8	1.16	26.27
38.0-39.0	82.1	5.6	131.4	1.17	27.45
39.0-40.0	81.2	5.7	137.0	1.18	28.63
40.0-41.0	80.4	5.7	142.8	1.20	29.83
41.0-42.0	79.5	5.8	148.5	1.21	31.03
42.0-43.0	78.7	5.8	154.4	1.22	32.25
43.0-44.0	77.9	5.9	160.3	1.23	33.48
44.0-45.0	77.2	5.9	166.2	1.24	34.72
45.0-46.0	76.4	6.0	172.2	1.25	35.97
46.0-47.0	75.6	6.0	178.2	1.26	37.23
47.0-48.0	74.8	6.0	184.2	1.26	38.49
48.0-49.0	74.0	6.1	190.3	1.27	39.76
49.0-50.0	73.2	6.1	196.4	1.28	41.03
50.0-51.0	72.4	6.1	202.5	1.28	42.31
51.0-52.0	71.6	6.1	208.7	1.28	43.60
52.0-53.0	70.7	6.1	214.8	1.28	44.88
53.0-54.0	69.8	6.2	221.0	1.29	46.17
54.0-55.0	68.9	6.2	227.1	1.29	47.45
55.0-56.0	68.1	6.2	233.3	1.29	48.74
56.0-57.0	67.1	6.1	239.4	1.28	50.02
57.0-58.0	66.2	6.1	245.5	1.28	51.30
58.0-59.0	65.2	6.1	251.6	1.27	52.57
59.0-60.0	64.2	6.1	257.7	1.27	53.84
60.0-61.0	63.2	6.0	263.7	1.26	55.10
61.0-62.0	62.2	6.0	269.7	1.25	56.36
62.0-63.0	61.2	6.0	275.7	1.24	57.60
63.0-64.0	60.2	5.9	281.6	1.23	58.83
64.0-65.0	59.1	5.9	287.5	1.22	60.06
65.0-66.0	58.1	5.8	293.2	1.21	61.27
66.0-67.0	57.0	5.7	299.0	1.20	62.47
67.0-68.0	56.0	5.7	304.7	1.19	63.65
68.0-69.0	54.9	5.6	310.3	1.17	64.82
69.0-70.0	53.9	5.5	315.8	1.16	65.98
70.0-71.0	52.8	5.5	321.3	1.14	67.12
71.0-72.0	51.8	5.4	326.6	1.13	68.24

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	50.7	5.3	331.9	1.11	69.35
73.0-74.0	49.7	5.2	337.2	1.09	70.44
74.0-75.0	48.6	5.1	342.3	1.07	71.52
75.0-76.0	47.5	5.0	347.3	1.05	72.57
76.0-77.0	46.5	5.0	352.3	1.03	73.61
77.0-78.0	45.4	4.9	357.2	1.02	74.62
78.0-79.0	44.3	4.8	361.9	0.99	75.62
79.0-80.0	43.2	4.7	366.6	0.97	76.59
80.0-81.0	42.2	4.6	371.1	0.95	77.54
81.0-82.0	41.1	4.5	375.6	0.93	78.47
82.0-83.0	40.0	4.4	380.0	0.91	79.38
83.0-84.0	39.0	4.2	384.2	0.89	80.27
84.0-85.0	38.0	4.1	388.3	0.87	81.14
85.0-86.0	36.9	4.0	392.4	0.84	81.98
86.0-87.0	36.0	3.9	396.3	0.82	82.80
87.0-88.0	35.1	3.8	400.2	0.80	83.61
88.0-89.0	34.2	3.7	403.9	0.78	84.39
89.0-90.0	33.3	3.7	407.6	0.76	85.15
90.0-91.0	32.5	3.6	411.1	0.75	85.90
91.0-92.0	31.8	3.5	414.6	0.73	86.63
92.0-93.0	31.0	3.4	418.0	0.71	87.34
93.0-94.0	30.3	3.3	421.3	0.69	88.03
94.0-95.0	29.5	3.2	424.6	0.67	88.70
95.0-96.0	28.7	3.1	427.7	0.65	89.36
96.0-97.0	27.9	3.0	430.7	0.63	89.99
97.0-98.0	27.0	2.9	433.7	0.61	90.60
98.0-99.0	26.2	2.8	436.5	0.59	91.20
99.0-100.0	25.3	2.7	439.2	0.57	91.77
100.0-101.0	24.3	2.6	441.9	0.55	92.32
101.0-102.0	23.3	2.5	444.4	0.52	92.84
102.0-103.0	22.3	2.4	446.8	0.50	93.34
103.0-104.0	21.1	2.3	449.0	0.47	93.81
104.0-105.0	19.9	2.1	451.1	0.44	94.25
105.0-106.0	18.7	2.0	453.1	0.41	94.67
106.0-107.0	17.5	1.8	455.0	0.39	95.05
107.0-108.0	16.4	1.7	456.7	0.36	95.41

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	15.3	1.6	458.3	0.33	95.74
109.0-110.0	14.3	1.5	459.7	0.31	96.05
110.0-111.0	13.3	1.4	461.1	0.29	96.34
111.0-112.0	12.4	1.3	462.4	0.26	96.60
112.0-113.0	11.6	1.2	463.5	0.24	96.85
113.0-114.0	10.7	1.1	464.6	0.23	97.07
114.0-115.0	9.9	1.0	465.6	0.21	97.28
115.0-116.0	9.1	0.9	466.5	0.19	97.47
116.0-117.0	8.4	0.8	467.3	0.17	97.64
117.0-118.0	7.7	0.8	468.1	0.16	97.80
118.0-119.0	7.1	0.7	468.8	0.14	97.94
119.0-120.0	6.6	0.6	469.4	0.13	98.07
120.0-121.0	6.2	0.6	470.0	0.12	98.19
121.0-122.0	5.8	0.5	470.5	0.11	98.31
122.0-123.0	5.4	0.5	471.0	0.10	98.41
123.0-124.0	5.1	0.5	471.5	0.10	98.51
124.0-125.0	4.8	0.4	471.9	0.09	98.60
125.0-126.0	4.6	0.4	472.3	0.09	98.69
126.0-127.0	4.3	0.4	472.7	0.08	98.76
127.0-128.0	4.1	0.4	473.1	0.07	98.84
128.0-129.0	3.9	0.3	473.4	0.07	98.91
129.0-130.0	3.7	0.3	473.7	0.07	98.98
130.0-131.0	3.6	0.3	474.0	0.06	99.04
131.0-132.0	3.4	0.3	474.3	0.06	99.10
132.0-133.0	3.3	0.3	474.6	0.06	99.15
133.0-134.0	3.1	0.2	474.8	0.05	99.20
134.0-135.0	3.0	0.2	475.1	0.05	99.25
135.0-136.0	2.9	0.2	475.3	0.05	99.30
136.0-137.0	2.8	0.2	475.5	0.04	99.35
137.0-138.0	2.7	0.2	475.7	0.04	99.39
138.0-139.0	2.6	0.2	475.9	0.04	99.43
139.0-140.0	2.5	0.2	476.1	0.04	99.46
140.0-141.0	2.5	0.2	476.2	0.04	99.50
141.0-142.0	2.4	0.2	476.4	0.03	99.53
142.0-143.0	2.3	0.2	476.6	0.03	99.57
143.0-144.0	2.2	0.1	476.7	0.03	99.60

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	2.1	0.1	476.8	0.03	99.63
145.0-146.0	2.1	0.1	477.0	0.03	99.65
146.0-147.0	2.0	0.1	477.1	0.03	99.68
147.0-148.0	2.0	0.1	477.2	0.02	99.70
148.0-149.0	1.9	0.1	477.3	0.02	99.73
149.0-150.0	1.9	0.1	477.4	0.02	99.75
150.0-151.0	1.8	0.1	477.5	0.02	99.77
151.0-152.0	1.8	0.1	477.6	0.02	99.79
152.0-153.0	1.7	0.1	477.7	0.02	99.81
153.0-154.0	1.7	0.1	477.8	0.02	99.82
154.0-155.0	1.6	0.1	477.9	0.02	99.84
155.0-156.0	1.6	0.1	477.9	0.02	99.85
156.0-157.0	1.5	0.1	478.0	0.01	99.87
157.0-158.0	1.5	0.1	478.1	0.01	99.88
158.0-159.0	1.5	0.1	478.1	0.01	99.89
159.0-160.0	1.4	0.1	478.2	0.01	99.91
160.0-161.0	1.4	0.1	478.2	0.01	99.92
161.0-162.0	1.4	0.0	478.3	0.01	99.93
162.0-163.0	1.3	0.0	478.3	0.01	99.94
163.0-164.0	1.3	0.0	478.4	0.01	99.94
164.0-165.0	1.2	0.0	478.4	0.01	99.95
165.0-166.0	1.2	0.0	478.4	0.01	99.96
166.0-167.0	1.2	0.0	478.5	0.01	99.96
167.0-168.0	1.1	0.0	478.5	0.01	99.97
168.0-169.0	1.1	0.0	478.5	0.01	99.97
169.0-170.0	1.1	0.0	478.5	0.00	99.98
170.0-171.0	1.1	0.0	478.6	0.00	99.98
171.0-172.0	1.1	0.0	478.6	0.00	99.99
172.0-173.0	1.0	0.0	478.6	0.00	99.99
173.0-174.0	1.0	0.0	478.6	0.00	99.99
174.0-175.0	1.0	0.0	478.6	0.00	100.00
175.0-176.0	1.0	0.0	478.6	0.00	100.00
176.0-177.0	1.0	0.0	478.6	0.00	100.00
177.0-178.0	1.0	0.0	478.6	0.00	100.00
178.0-179.0	0.9	0.0	478.6	0.00	100.00
179.0-180.0	0.9	0.0	478.6	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: