

Report No.:

Test Time: 2023/9/14 11:07

## Luminaire Property

Luminaire Manufacturer: ACOLYTE

Luminaire Category: CHANNEL

Luminaire Description: CHAT4C90SWS2203.030

Luminous Length (mm): 500

Luminous Width (mm): 19.6

Luminous Height (mm): 18.8

Voltage: 24.0 V

Current: 0.202 A

Power: 4.89 W

Power Factor: 1.000

## Photometric Results

CIE Class: Direct

Measurement Flux: 510.4 lm

Downward Ratio: 98%

Horizontal Diffuse Angle(10%,50%): H150.9,H107.7

Vertical Diffuse Angle(10%,50%): V131.9,V109

Luminaire Efficacy Rating (LER): 104

Max. Intensity: 190.75 cd

Total Rated Lamp Lumens: 510.4 lm

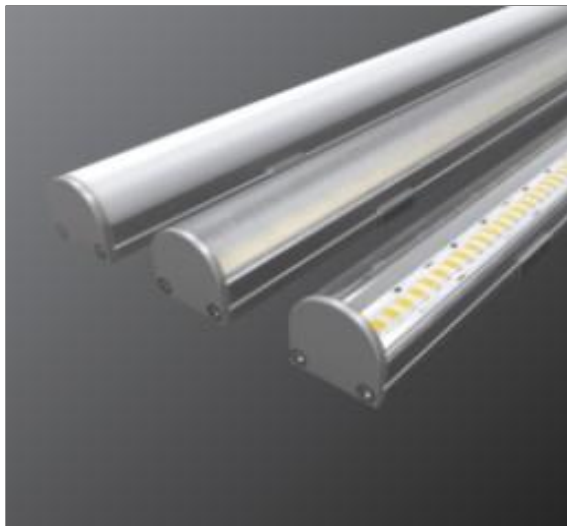
Efficiency: 100%

Upward Ratio: 2%

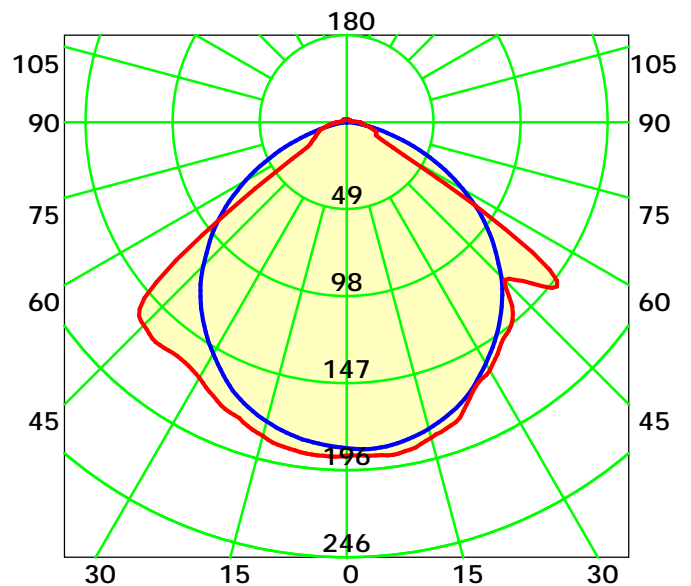
Central Intensity: 184.32 cd

Pos of Max. Intensity: H60 V8

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 108.4°

— 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

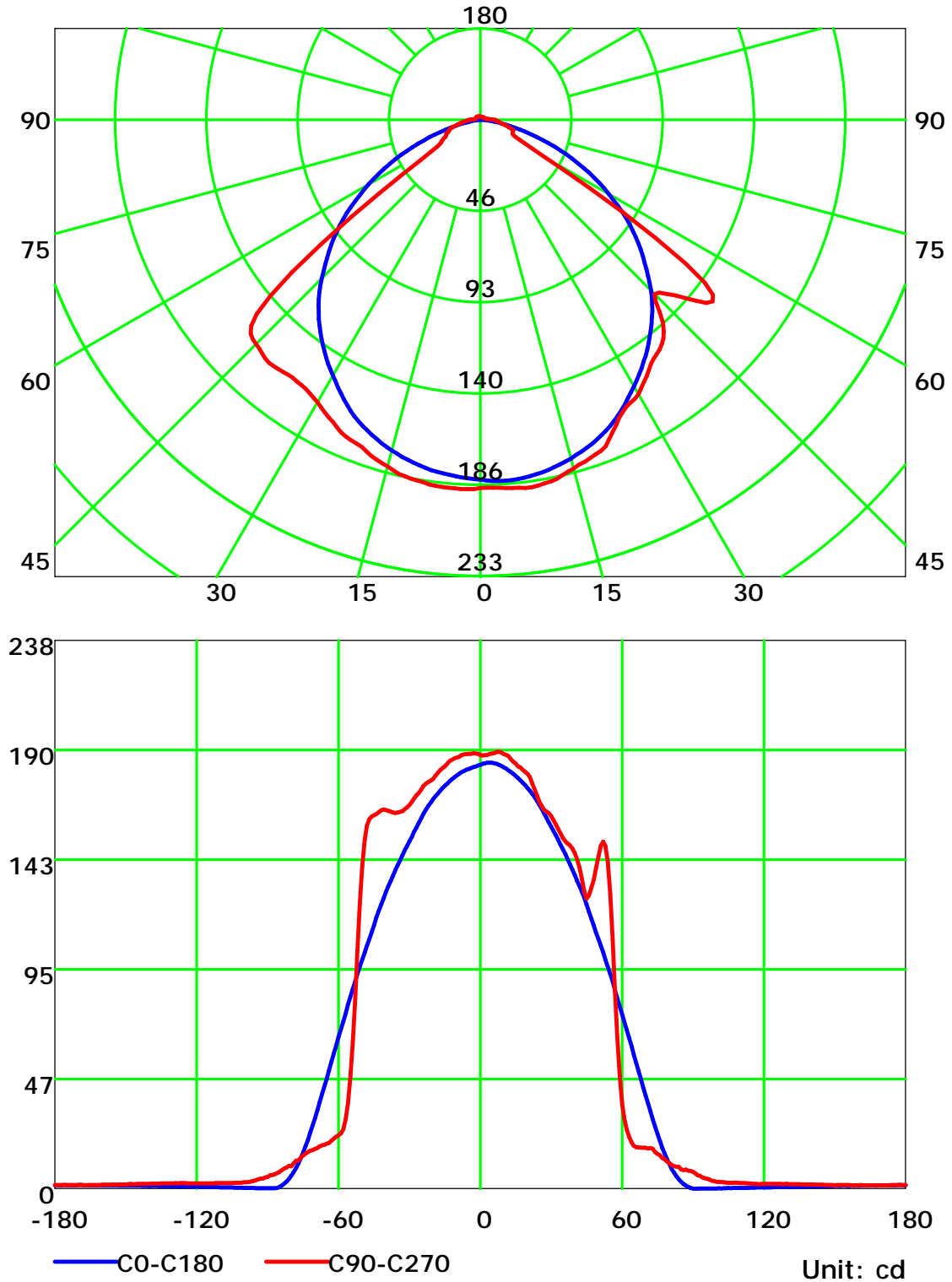
Distance: 9.028 m

Humidity: 60%

Inspector:



## Luminous Intensity Distribution Curve

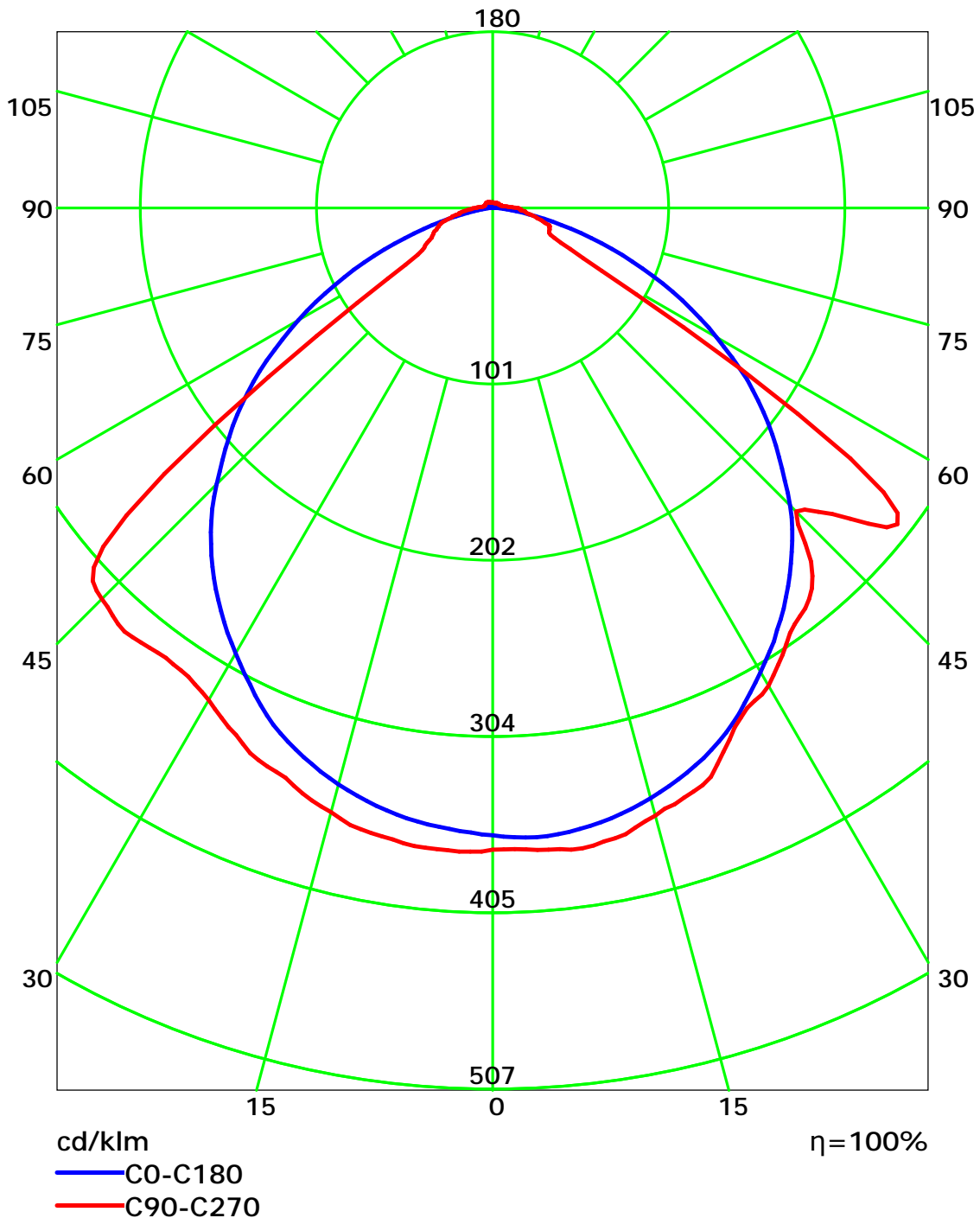


C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

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:

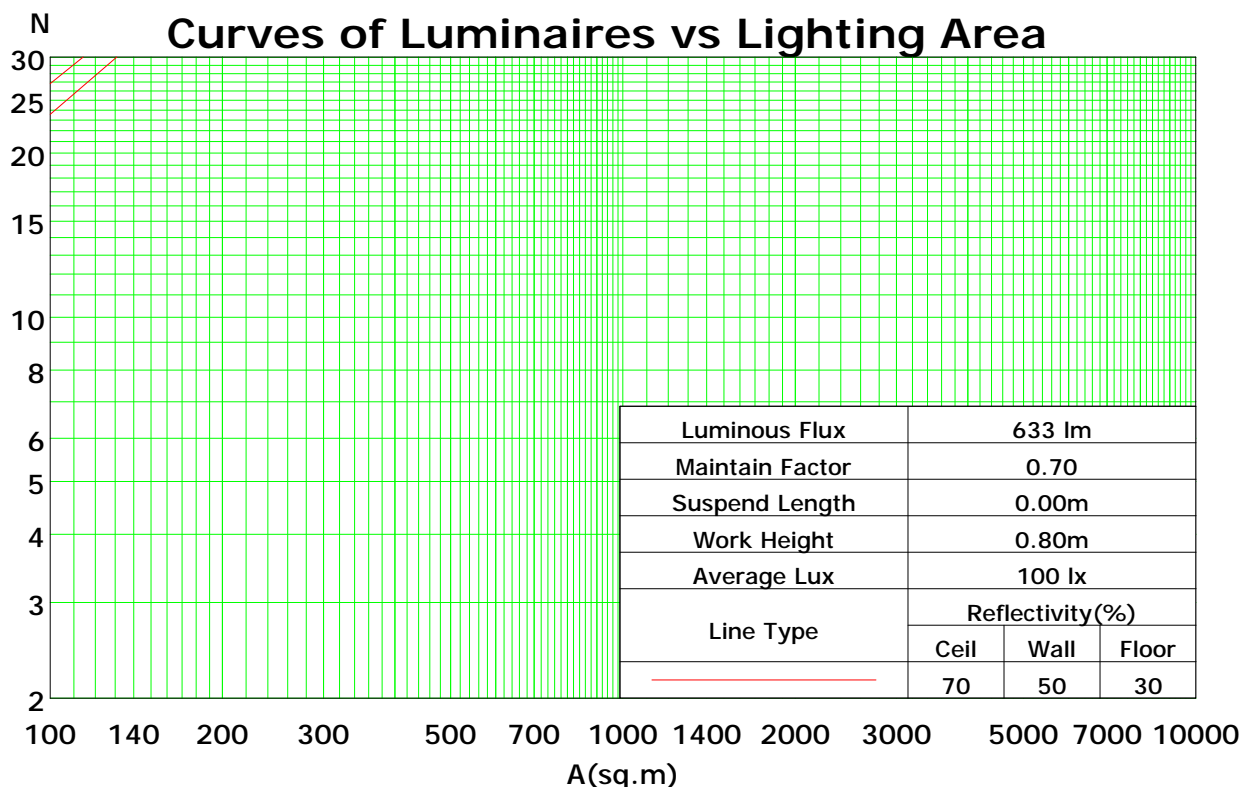
## Coefficients Of Utilization - Zonal Cavity Method

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	109	105	101	98	106	103	99	96	98	95	93	94	91	89	90	88	86	84
2	100	93	86	81	97	91	85	80	87	82	78	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	68	77	71	66	74	69	65	71	67	63	61
4	84	73	65	58	82	71	64	58	69	62	57	66	60	56	64	59	55	53
5	78	65	57	50	75	64	56	50	62	55	49	60	53	49	57	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	46	42	40
7	66	53	45	39	65	52	44	39	51	43	38	49	43	38	48	42	37	35
8	62	49	40	35	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	45	37	31	56	44	36	31	43	36	31	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	33	28	38	32	28	37	32	27	26

Spacing Criteria (0-180): 1.25

Spacing Criteria (90-270): 1.30

Spacing Criteria (Diagonal): 1.43



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

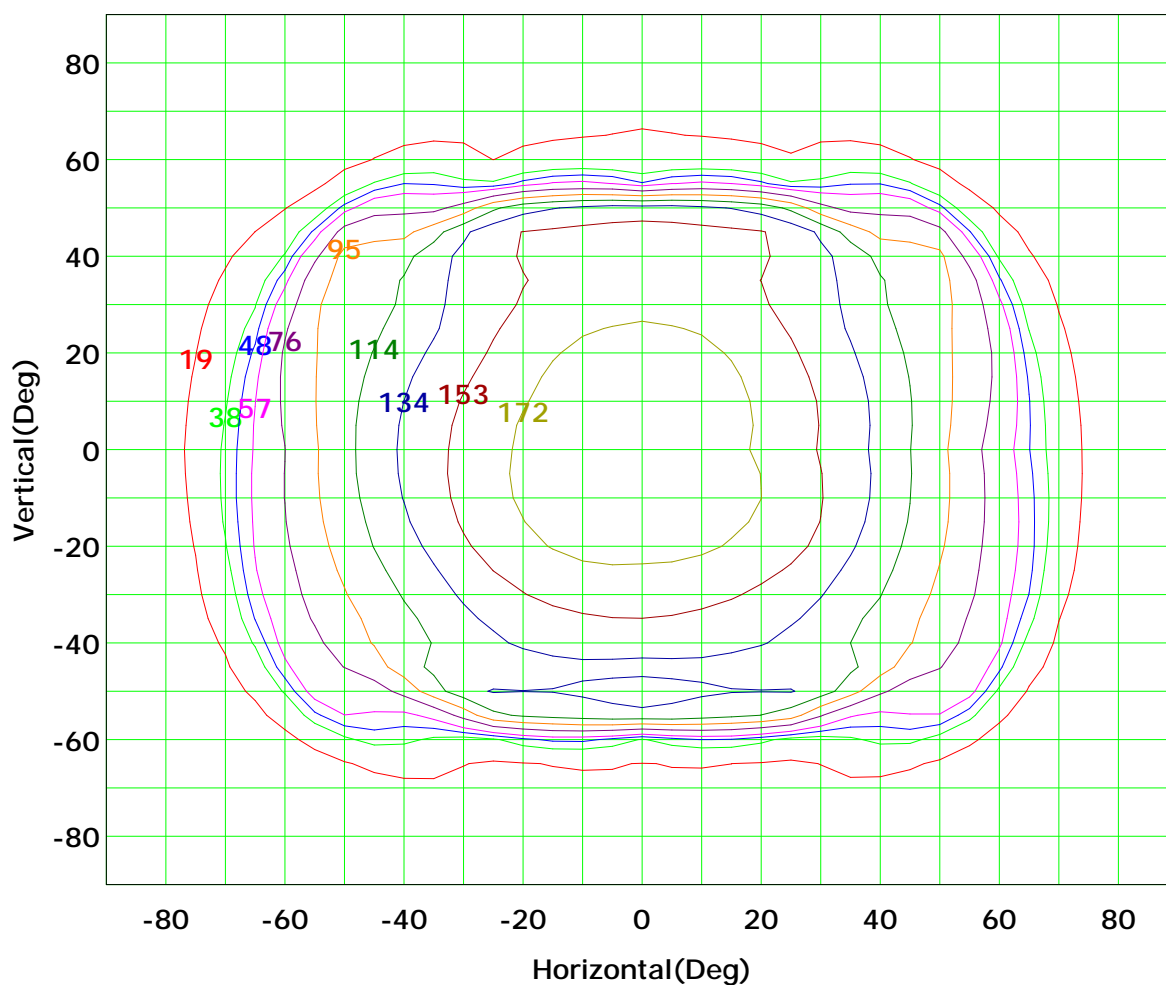
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



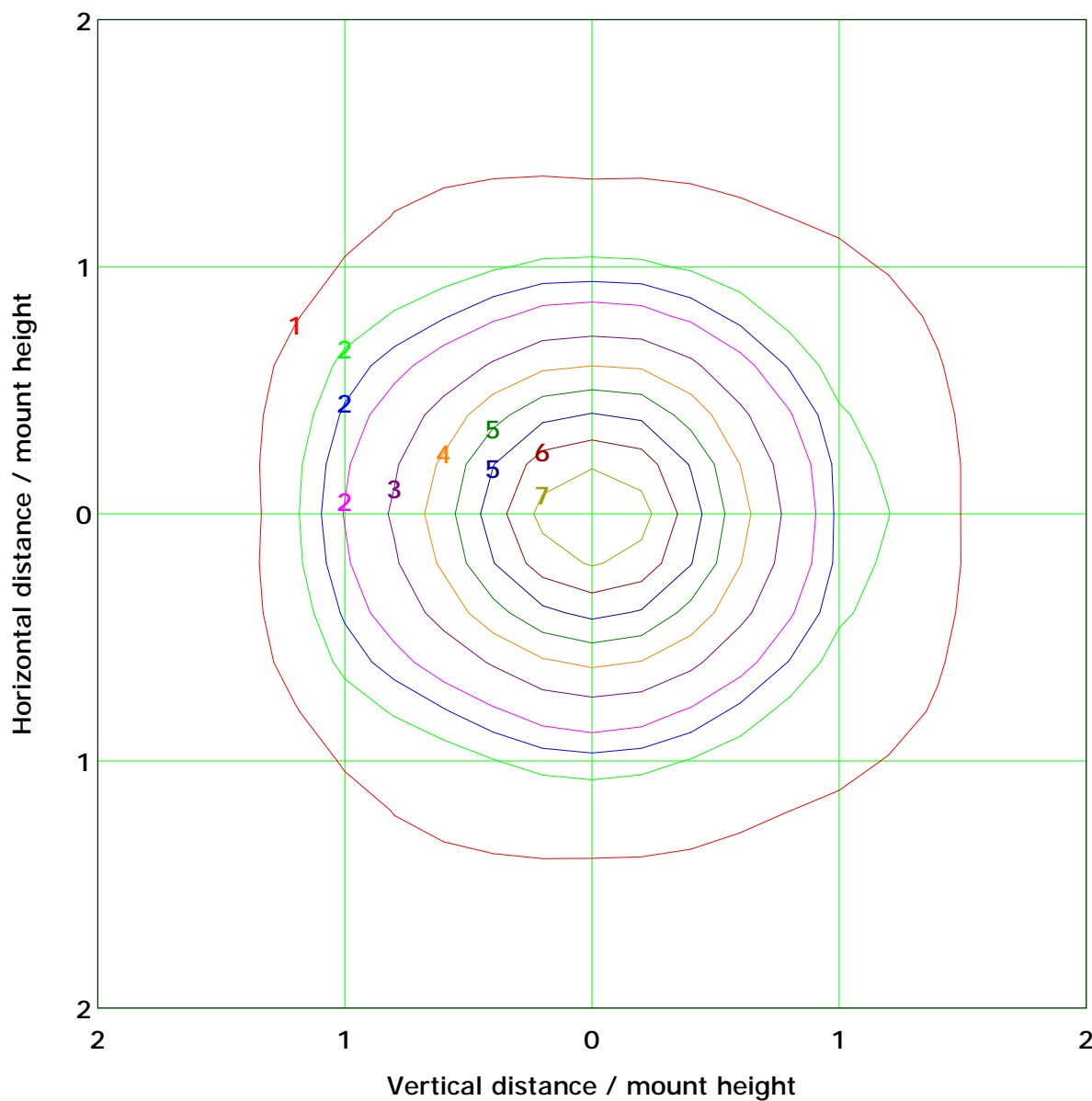
I<sub>max</sub> (100%): 191 cd

( 10%):	19 cd	( 20%):	38 cd
( 25%):	48 cd	( 30%):	57 cd
( 40%):	76 cd	( 50%):	95 cd
( 60%):	114 cd	( 70%):	134 cd
( 80%):	153 cd	( 90%):	172 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%): 7.6 lx

( 10%): 0.8 lx	( 20%): 1.5 lx
( 25%): 1.9 lx	( 30%): 2.3 lx
( 40%): 3.0 lx	( 50%): 3.8 lx
( 60%): 4.5 lx	( 70%): 5.3 lx
( 80%): 6.0 lx	( 90%): 6.8 lx

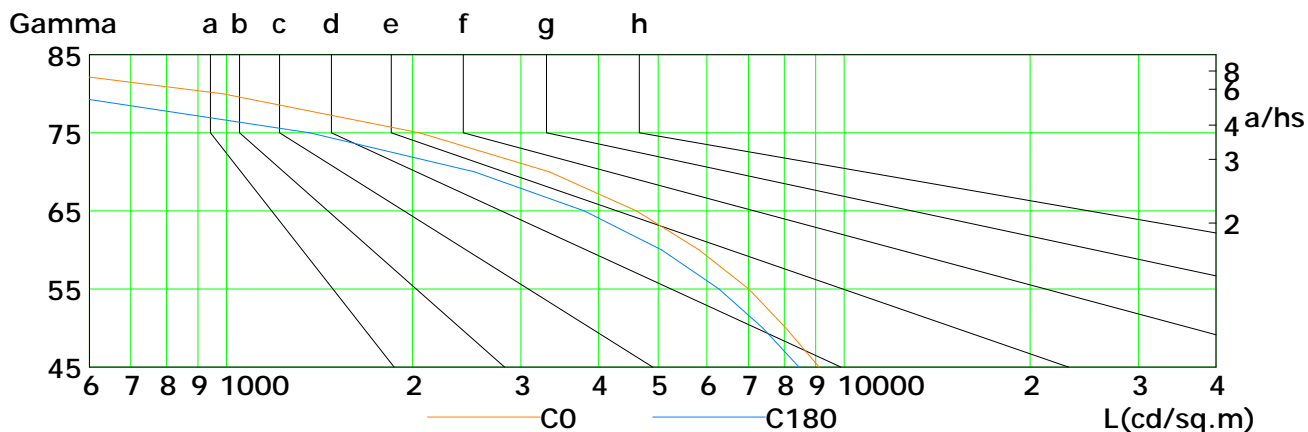
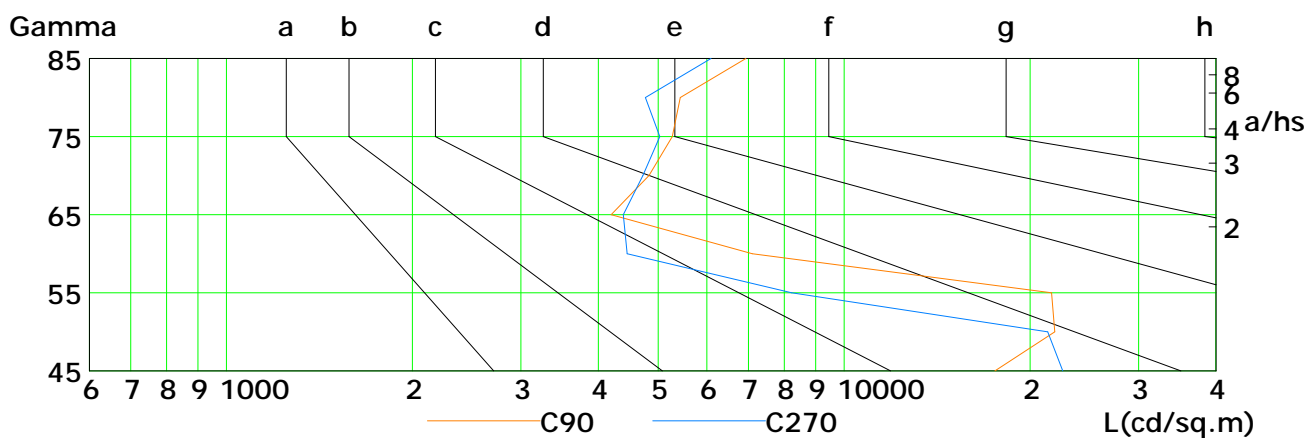
C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Nick

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

## 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



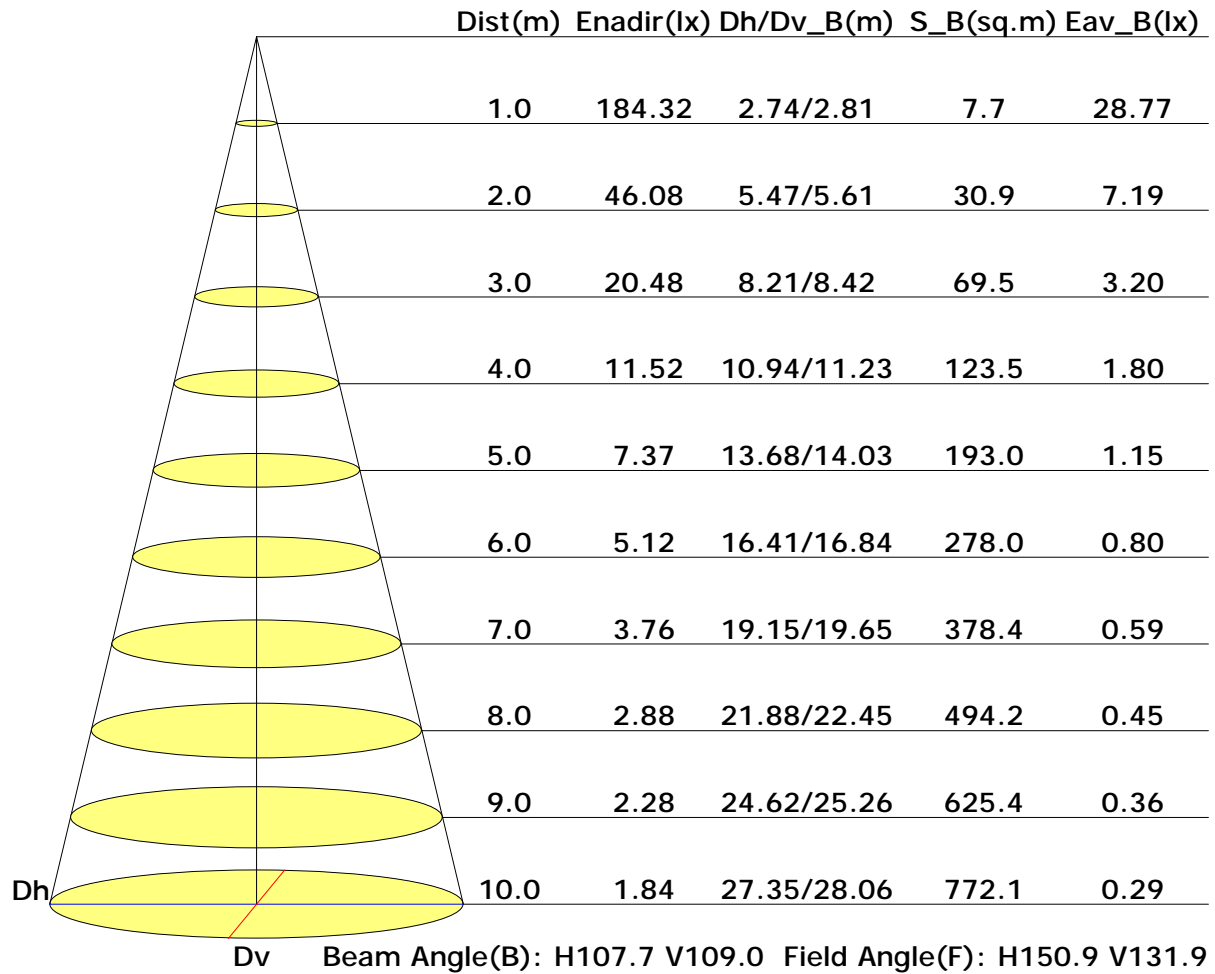
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9111	8053	7011	5825	4613	3334	2054	986	308
C90	17553	21929	21668	7103	4196	4835	5269	5430	6936
C180	8458	7390	6277	5066	3799	2523	1364	524	91
C270	22600	21358	8224	4457	4395	4721	5034	4771	6092

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:

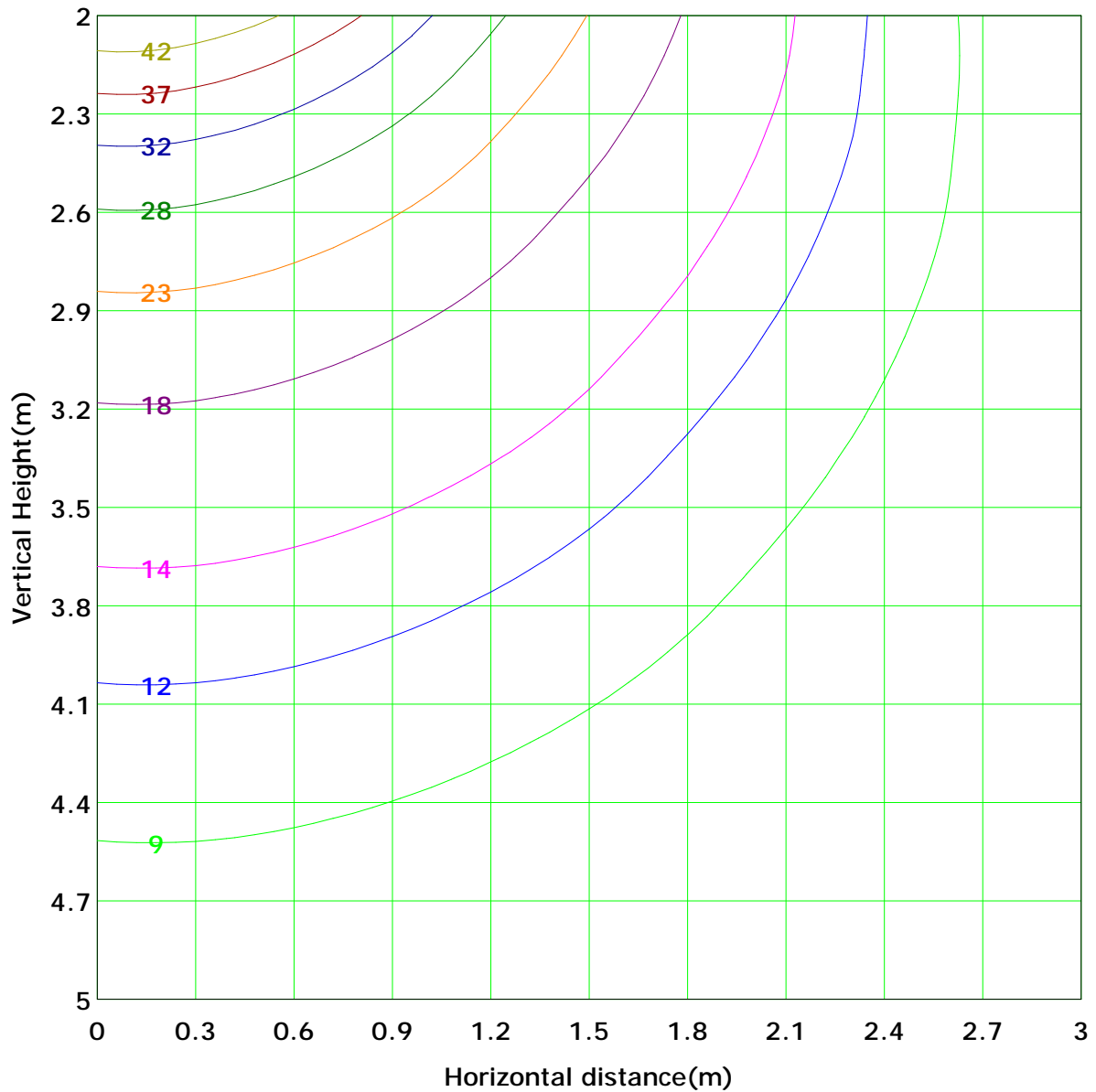


## Illuminance at a Distance





## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 46.2 lx
( 10%): 4.6 lx	( 20%): 9.2 lx	
( 25%): 11.6 lx	( 30%): 13.9 lx	
( 40%): 18.5 lx	( 50%): 23.1 lx	
( 60%): 27.7 lx	( 70%): 32.3 lx	
( 80%): 37.0 lx	( 90%): 41.6 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:

## Area Flux Table

Unit: lm

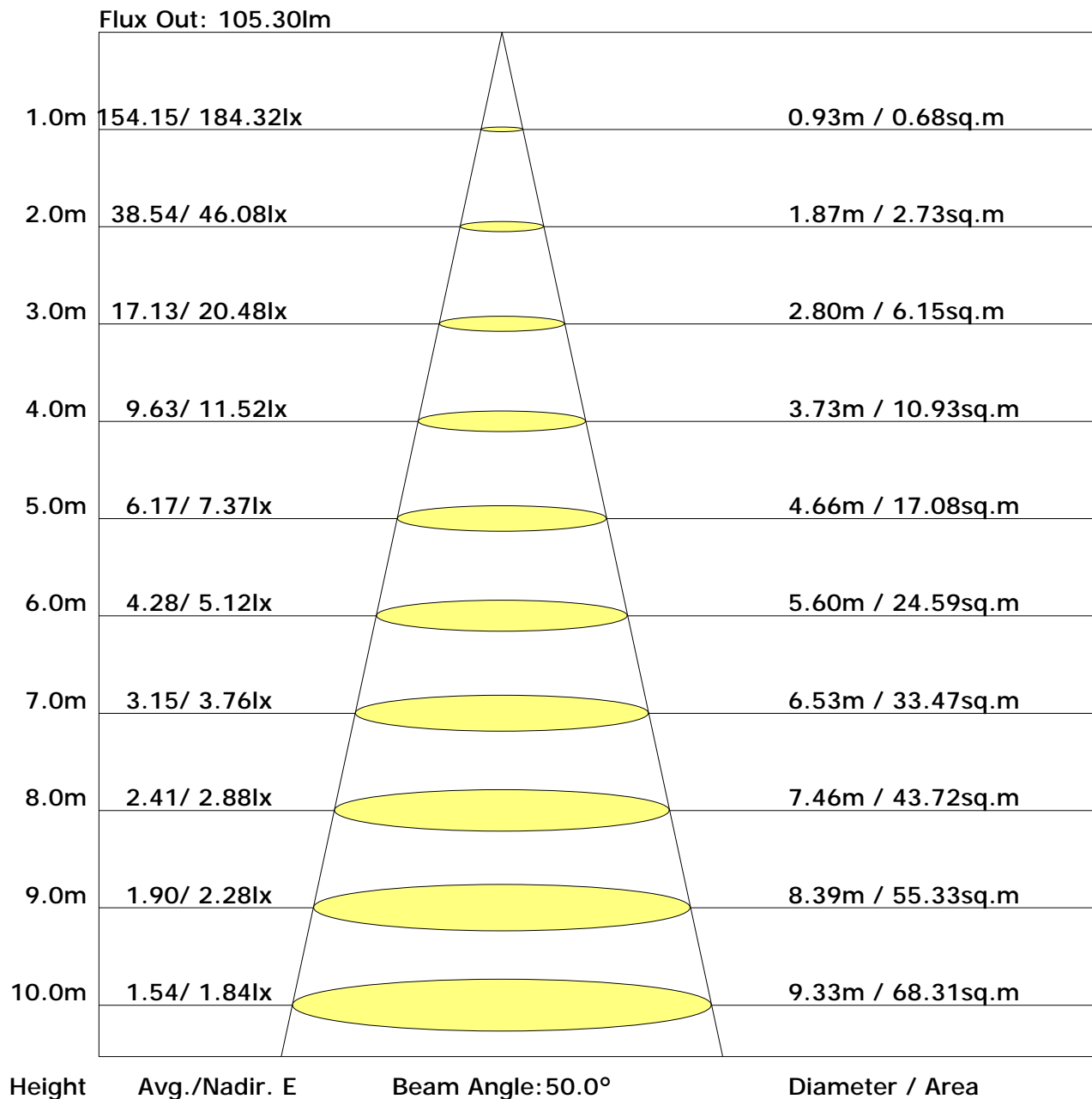
Orbit: m1																				
Vertical plane		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
Flux(E)	Flux(T)	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
0.0	0.1	0.0	0.1	0.7	1.5	2.4	3.5	4.5	5.2	5.6	5.7	5.3	4.6	3.7	2.6	1.7	0.8	0.2	0.0	0.0
10	0.0	0.1	0.1	0.7	1.5	2.5	3.5	4.5	5.2	5.6	5.7	5.3	4.6	3.7	2.6	1.7	0.8	0.2	0.0	0.0
20	0.0	0.1	0.1	0.7	1.5	2.4	3.5	4.4	5.1	5.5	5.6	5.2	4.5	3.6	2.5	1.6	0.8	0.2	0.0	0.0
30	0.0	0.1	0.1	0.6	1.4	2.3	3.2	4.1	4.7	5.1	5.1	4.8	4.2	3.3	2.4	1.5	0.7	0.2	0.0	0.0
40	0.0	0.1	0.1	0.5	1.3	2.2	3.0	3.7	4.3	4.6	4.6	4.4	3.8	3.0	2.2	1.4	0.6	0.1	0.0	0.0
50	0.0	0.1	0.4	1.2	1.9	2.8	3.4	3.8	4.1	4.1	3.8	3.4	2.9	1.9	1.2	0.4	0.1	0.1	0.0	0.0
60	0.0	0.0	0.2	0.7	1.2	1.6	2.6	3.2	3.4	3.4	3.2	2.7	1.7	1.2	0.8	0.2	0.1	0.1	0.0	0.0
70	0.0	0.0	0.1	0.2	0.5	0.6	0.6	0.5	0.7	0.7	0.7	0.6	0.6	0.5	0.3	0.1	0.0	0.0	0.0	0.0
80	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0
90	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
Flux(T)	0.1	1.2	6.0	15.6	26.1	36.7	47.1	54.9	59.0	59.3	55.3	47.6	37.3	26.8	16.4	6.9	1.8	0.2	498	
Flux(E)	0.0	0.4	5.1	14.7	25.2	35.6	45.4	53.1	57.2	57.4	53.6	45.9	36.1	25.9	15.6	6.1	0.9	0.0		478
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	23.4	24.9	23.8	25.3	25.7	22.4	24.0	22.8	24.3	24.7
3H	24.6	25.9	25.0	26.3	26.7	22.4	23.8	22.9	24.2	24.6
4H	24.8	26.1	25.2	26.5	26.9	22.5	23.7	22.9	24.1	24.6
6H	24.9	26.1	25.4	26.5	27.0	22.5	23.7	22.9	24.1	24.5
8H	24.9	26.0	25.4	26.5	26.9	22.5	23.6	23.0	24.0	24.5
12H	24.9	26.0	25.4	26.4	26.9	22.5	23.6	23.0	24.0	24.5
X=4H Y=2H	23.4	24.7	23.9	25.1	25.6	22.6	23.9	23.0	24.3	24.7
3H	24.7	25.8	25.2	26.2	26.7	22.7	23.7	23.1	24.2	24.6
4H	25.0	25.9	25.5	26.4	26.9	22.7	23.7	23.2	24.1	24.6
6H	25.1	25.9	25.6	26.4	26.9	22.8	23.6	23.3	24.1	24.6
8H	25.1	25.9	25.6	26.4	26.9	22.8	23.5	23.3	24.0	24.6
12H	25.1	25.8	25.7	26.3	26.9	22.8	23.5	23.3	24.0	24.5
X=8H Y=4H	24.9	25.7	25.4	26.2	26.7	22.8	23.5	23.3	24.0	24.5
6H	25.0	25.7	25.6	26.2	26.7	22.8	23.5	23.4	24.0	24.5
8H	25.1	25.6	25.6	26.2	26.7	22.9	23.4	23.4	24.0	24.5
12H	25.1	25.6	25.6	26.1	26.7	22.9	23.4	23.5	23.9	24.6
X=12H Y=4H	24.9	25.6	25.4	26.1	26.6	22.7	23.4	23.3	23.9	24.5
6H	25.0	25.6	25.6	26.1	26.7	22.8	23.4	23.4	23.9	24.5
8H	25.0	25.5	25.6	26.1	26.7	22.9	23.4	23.4	23.9	24.5

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	0.59	0.70	0.77	0.83	0.90	0.94	0.98	1.02	1.04
	0.30		0.51	0.63	0.71	0.76	0.84	0.89	0.93	0.98	1.01
	0.20		0.46	0.57	0.65	0.71	0.79	0.85	0.89	0.95	0.98
0.50	0.50	0.20	0.57	0.68	0.75	0.80	0.86	0.91	0.93	0.97	1.00
	0.30		0.50	0.61	0.69	0.74	0.82	0.86	0.90	0.94	0.97
	0.20		0.45	0.57	0.64	0.70	0.78	0.83	0.87	0.92	0.95
0.30	0.50	0.20	0.55	0.66	0.72	0.77	0.83	0.87	0.90	0.93	0.95
	0.30		0.49	0.60	0.67	0.72	0.79	0.84	0.87	0.91	0.93
	0.20		0.45	0.56	0.63	0.69	0.76	0.81	0.84	0.89	0.91
0.00	0.00	0.00	0.42	0.53	0.60	0.65	0.72	0.77	0.80	0.84	0.86
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	0.95	0.77	0.64	0.56	0.44	0.36	0.31	0.24	0.19	
	0.30		0.80	0.66	0.56	0.49	0.40	0.33	0.28	0.22	0.18	
	0.20		0.68	0.57	0.50	0.44	0.36	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.92	0.73	0.61	0.53	0.41	0.38	0.29	0.22	0.18	
	0.30		0.77	0.64	0.54	0.47	0.38	0.32	0.27	0.21	0.17	
	0.20		0.67	0.56	0.49	0.43	0.35	0.29	0.25	0.20	0.17	
0.30	0.50	0.20	0.88	0.70	0.58	0.50	0.39	0.32	0.27	0.21	0.17	
	0.30		0.75	0.62	0.52	0.46	0.36	0.30	0.26	0.20	0.16	
	0.20		0.66	0.55	0.47	0.42	0.34	0.28	0.24	0.19	0.16	
0.00	0.00	0.00	0.55	0.45	0.38	0.33	0.26	0.21	0.18	0.14	0.12	
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	0.18	0.19	0.20	0.21	0.22	0.22	0.23	0.23	0.24
	0.30		0.12	0.13	0.15	0.16	0.17	0.19	0.19	0.21	0.21
	0.20		0.07	0.09	0.10	0.12	0.14	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	0.23
	0.30		0.11	0.13	0.14	0.15	0.17	0.18	0.19	0.20	0.21
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.18	0.19
0.30	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.21	0.22
	0.30		0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20
	0.20		0.07	0.09	0.10	0.11	0.13	0.15	0.16	0.17	0.18
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: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	186.4	0.2	0.2	0.03	0.03
1.0-2.0	186.5	0.5	0.7	0.10	0.14
2.0-3.0	186.6	0.9	1.6	0.17	0.31
3.0-4.0	186.6	1.2	2.9	0.24	0.56
4.0-5.0	186.5	1.6	4.5	0.31	0.87
5.0-6.0	186.4	2.0	6.4	0.38	1.26
6.0-7.0	186.3	2.3	8.7	0.45	1.71
7.0-8.0	186.2	2.7	11.4	0.52	2.23
8.0-9.0	185.9	3.0	14.4	0.59	2.82
9.0-10.0	185.4	3.4	17.8	0.66	3.48
10.0-11.0	184.9	3.7	21.5	0.72	4.20
11.0-12.0	184.3	4.0	25.5	0.79	4.99
12.0-13.0	183.7	4.4	29.9	0.85	5.85
13.0-14.0	183.0	4.7	34.5	0.92	6.77
14.0-15.0	182.2	5.0	39.5	0.98	7.75
15.0-16.0	181.2	5.3	44.8	1.04	8.79
16.0-17.0	180.2	5.6	50.5	1.10	9.89
17.0-18.0	179.1	5.9	56.4	1.16	11.04
18.0-19.0	178.0	6.2	62.6	1.21	12.26
19.0-20.0	177.0	6.5	69.0	1.27	13.53
20.0-21.0	175.8	6.8	75.8	1.32	14.85
21.0-22.0	174.5	7.0	82.8	1.37	16.22
22.0-23.0	173.1	7.3	90.1	1.42	17.65
23.0-24.0	171.6	7.5	97.6	1.47	19.12
24.0-25.0	170.0	7.7	105.3	1.51	20.63
25.0-26.0	168.2	7.9	113.2	1.56	22.19
26.0-27.0	166.4	8.1	121.4	1.60	23.78
27.0-28.0	164.5	8.3	129.7	1.63	25.41
28.0-29.0	162.7	8.5	138.2	1.67	27.08
29.0-30.0	160.9	8.7	146.9	1.70	28.78
30.0-31.0	159.2	8.9	155.8	1.74	30.52
31.0-32.0	157.5	9.0	164.8	1.77	32.29
32.0-33.0	155.8	9.2	174.0	1.80	34.09
33.0-34.0	154.1	9.3	183.3	1.83	35.91
34.0-35.0	152.3	9.5	192.8	1.85	37.77
35.0-36.0	150.5	9.6	202.4	1.88	39.65

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	148.8	9.7	212.1	1.90	41.55
37.0-38.0	147.1	9.8	221.9	1.92	43.47
38.0-39.0	145.3	9.9	231.8	1.94	45.41
39.0-40.0	143.5	10.0	241.8	1.96	47.38
40.0-41.0	141.8	10.1	251.9	1.98	49.35
41.0-42.0	140.1	10.2	262.1	1.99	51.35
42.0-43.0	138.1	10.2	272.3	2.00	53.35
43.0-44.0	136.0	10.3	282.6	2.01	55.37
44.0-45.0	134.0	10.3	292.9	2.02	57.38
45.0-46.0	132.1	10.3	303.2	2.02	59.41
46.0-47.0	130.2	10.4	313.6	2.03	61.44
47.0-48.0	128.2	10.4	323.9	2.03	63.47
48.0-49.0	126.2	10.4	334.3	2.03	65.50
49.0-50.0	124.3	10.4	344.7	2.03	67.53
50.0-51.0	122.4	10.4	355.0	2.03	69.56
51.0-52.0	119.9	10.3	365.3	2.02	71.57
52.0-53.0	116.3	10.1	375.4	1.98	73.56
53.0-54.0	111.7	9.8	385.3	1.93	75.49
54.0-55.0	106.1	9.5	394.7	1.86	77.34
55.0-56.0	99.4	9.0	403.7	1.76	79.10
56.0-57.0	92.1	8.4	412.1	1.65	80.75
57.0-58.0	84.8	7.8	420.0	1.54	82.29
58.0-59.0	77.8	7.3	427.3	1.43	83.71
59.0-60.0	71.0	6.7	434.0	1.31	85.03
60.0-61.0	64.5	6.2	440.1	1.21	86.23
61.0-62.0	58.4	5.6	445.8	1.10	87.33
62.0-63.0	52.7	5.1	450.9	1.00	88.34
63.0-64.0	47.7	4.7	455.6	0.92	89.26
64.0-65.0	43.4	4.3	459.9	0.84	90.10
65.0-66.0	39.7	4.0	463.8	0.78	90.87
66.0-67.0	36.3	3.7	467.5	0.72	91.59
67.0-68.0	33.1	3.4	470.8	0.66	92.25
68.0-69.0	30.0	3.1	473.9	0.60	92.85
69.0-70.0	27.0	2.8	476.7	0.54	93.39
70.0-71.0	24.1	2.5	479.2	0.49	93.88
71.0-72.0	21.3	2.2	481.4	0.43	94.32

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	18.9	2.0	483.4	0.39	94.70
73.0-74.0	16.6	1.8	485.1	0.34	95.04
74.0-75.0	14.8	1.6	486.7	0.31	95.35
75.0-76.0	13.2	1.4	488.1	0.28	95.63
76.0-77.0	11.8	1.3	489.3	0.25	95.87
77.0-78.0	10.7	1.1	490.5	0.22	96.10
78.0-79.0	9.7	1.0	491.5	0.20	96.30
79.0-80.0	8.7	0.9	492.5	0.18	96.49
80.0-81.0	7.9	0.9	493.3	0.17	96.65
81.0-82.0	7.1	0.8	494.1	0.15	96.80
82.0-83.0	6.5	0.7	494.8	0.14	96.94
83.0-84.0	5.9	0.6	495.4	0.13	97.07
84.0-85.0	5.4	0.6	496.0	0.11	97.18
85.0-86.0	4.9	0.5	496.6	0.10	97.29
86.0-87.0	4.5	0.5	497.0	0.10	97.38
87.0-88.0	4.1	0.5	497.5	0.09	97.47
88.0-89.0	3.9	0.4	497.9	0.08	97.56
89.0-90.0	3.6	0.4	498.3	0.08	97.63
90.0-91.0	3.4	0.4	498.7	0.07	97.71
91.0-92.0	3.2	0.4	499.1	0.07	97.78
92.0-93.0	3.0	0.3	499.4	0.07	97.84
93.0-94.0	2.9	0.3	499.7	0.06	97.90
94.0-95.0	2.7	0.3	500.0	0.06	97.96
95.0-96.0	2.6	0.3	500.3	0.06	98.02
96.0-97.0	2.5	0.3	500.6	0.05	98.07
97.0-98.0	2.4	0.3	500.8	0.05	98.12
98.0-99.0	2.3	0.2	501.1	0.05	98.17
99.0-100.0	2.2	0.2	501.3	0.05	98.22
100.0-101.0	2.2	0.2	501.5	0.05	98.26
101.0-102.0	2.1	0.2	501.8	0.04	98.31
102.0-103.0	2.1	0.2	502.0	0.04	98.35
103.0-104.0	2.1	0.2	502.2	0.04	98.40
104.0-105.0	2.0	0.2	502.4	0.04	98.44
105.0-106.0	2.0	0.2	502.6	0.04	98.48
106.0-107.0	2.0	0.2	502.8	0.04	98.52
107.0-108.0	2.0	0.2	503.1	0.04	98.56

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	1.9	0.2	503.3	0.04	98.60
109.0-110.0	1.9	0.2	503.4	0.04	98.64
110.0-111.0	1.9	0.2	503.6	0.04	98.68
111.0-112.0	1.8	0.2	503.8	0.04	98.71
112.0-113.0	1.8	0.2	504.0	0.04	98.75
113.0-114.0	1.8	0.2	504.2	0.04	98.78
114.0-115.0	1.8	0.2	504.4	0.03	98.82
115.0-116.0	1.8	0.2	504.5	0.03	98.85
116.0-117.0	1.7	0.2	504.7	0.03	98.89
117.0-118.0	1.7	0.2	504.9	0.03	98.92
118.0-119.0	1.7	0.2	505.1	0.03	98.95
119.0-120.0	1.7	0.2	505.2	0.03	98.98
120.0-121.0	1.7	0.2	505.4	0.03	99.02
121.0-122.0	1.7	0.2	505.5	0.03	99.05
122.0-123.0	1.7	0.2	505.7	0.03	99.08
123.0-124.0	1.7	0.2	505.9	0.03	99.11
124.0-125.0	1.7	0.2	506.0	0.03	99.14
125.0-126.0	1.7	0.2	506.2	0.03	99.17
126.0-127.0	1.7	0.2	506.3	0.03	99.20
127.0-128.0	1.7	0.1	506.5	0.03	99.23
128.0-129.0	1.7	0.1	506.6	0.03	99.26
129.0-130.0	1.7	0.1	506.8	0.03	99.29
130.0-131.0	1.7	0.1	506.9	0.03	99.32
131.0-132.0	1.7	0.1	507.0	0.03	99.34
132.0-133.0	1.7	0.1	507.2	0.03	99.37
133.0-134.0	1.7	0.1	507.3	0.03	99.40
134.0-135.0	1.7	0.1	507.4	0.03	99.42
135.0-136.0	1.7	0.1	507.6	0.03	99.45
136.0-137.0	1.7	0.1	507.7	0.02	99.47
137.0-138.0	1.7	0.1	507.8	0.02	99.49
138.0-139.0	1.6	0.1	507.9	0.02	99.52
139.0-140.0	1.6	0.1	508.1	0.02	99.54
140.0-141.0	1.6	0.1	508.2	0.02	99.56
141.0-142.0	1.6	0.1	508.3	0.02	99.58
142.0-143.0	1.6	0.1	508.4	0.02	99.60
143.0-144.0	1.6	0.1	508.5	0.02	99.63

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	1.6	0.1	508.6	0.02	99.65
145.0-146.0	1.6	0.1	508.7	0.02	99.67
146.0-147.0	1.6	0.1	508.8	0.02	99.68
147.0-148.0	1.6	0.1	508.9	0.02	99.70
148.0-149.0	1.6	0.1	509.0	0.02	99.72
149.0-150.0	1.6	0.1	509.1	0.02	99.74
150.0-151.0	1.6	0.1	509.1	0.02	99.75
151.0-152.0	1.6	0.1	509.2	0.02	99.77
152.0-153.0	1.6	0.1	509.3	0.02	99.79
153.0-154.0	1.6	0.1	509.4	0.02	99.80
154.0-155.0	1.6	0.1	509.5	0.01	99.82
155.0-156.0	1.6	0.1	509.5	0.01	99.83
156.0-157.0	1.6	0.1	509.6	0.01	99.84
157.0-158.0	1.6	0.1	509.7	0.01	99.86
158.0-159.0	1.6	0.1	509.7	0.01	99.87
159.0-160.0	1.6	0.1	509.8	0.01	99.88
160.0-161.0	1.6	0.1	509.9	0.01	99.89
161.0-162.0	1.6	0.1	509.9	0.01	99.90
162.0-163.0	1.6	0.1	510.0	0.01	99.91
163.0-164.0	1.6	0.0	510.0	0.01	99.92
164.0-165.0	1.6	0.0	510.1	0.01	99.93
165.0-166.0	1.6	0.0	510.1	0.01	99.94
166.0-167.0	1.6	0.0	510.1	0.01	99.95
167.0-168.0	1.6	0.0	510.2	0.01	99.96
168.0-169.0	1.6	0.0	510.2	0.01	99.96
169.0-170.0	1.6	0.0	510.2	0.01	99.97
170.0-171.0	1.6	0.0	510.3	0.01	99.98
171.0-172.0	1.6	0.0	510.3	0.01	99.98
172.0-173.0	1.6	0.0	510.3	0.00	99.99
173.0-174.0	1.6	0.0	510.3	0.00	99.99
174.0-175.0	1.6	0.0	510.4	0.00	99.99
175.0-176.0	1.6	0.0	510.4	0.00	100.00
176.0-177.0	1.6	0.0	510.4	0.00	100.00
177.0-178.0	1.6	0.0	510.4	0.00	100.00
178.0-179.0	1.7	0.0	510.4	0.00	100.00
179.0-180.0	1.6	0.0	510.4	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: