GENLED Brands
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Report No.: **Test Time: 2023/8/31 11:04**

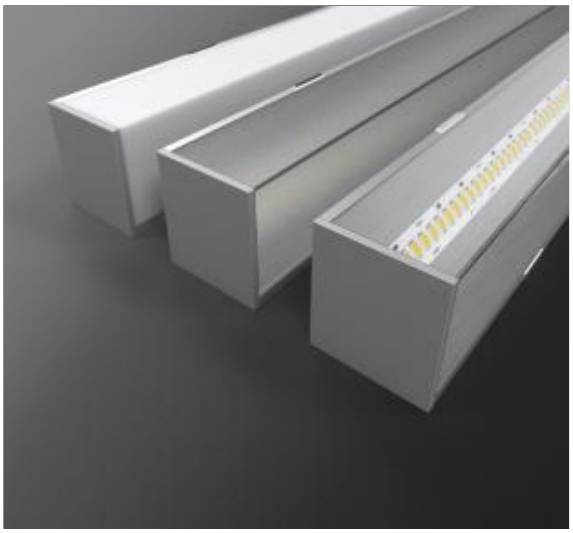
Luminaire Property

Luminaire Manufacturer: ACOLYTE
Luminaire Category: CHANNEL
Luminaire Description: CHAC4M90SWS2203.030
Luminous Length (mm): 500 **Luminous Width (mm): 30**
Luminous Height (mm): 30 **Voltage: 24.0V**
Current: 0.204 A **Power: 4.91 W**
Power Factor: 1.000

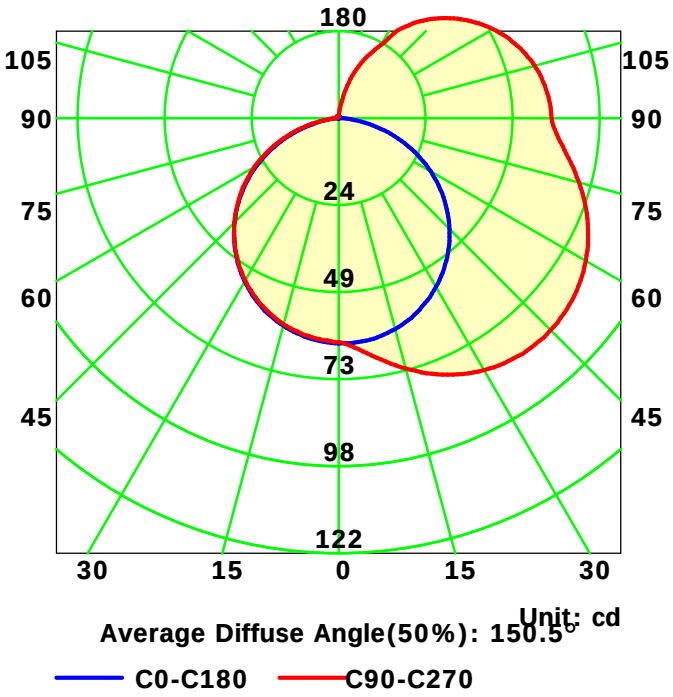
Photometric Results

CIE Class: Semi-Direct **Total Rated Lamp Lumens: 348.2 lm**
Measurement Flux: 348.2 lm **Efficiency: 100%**
Downward Ratio: 77% **Upward Ratio: 23%**
Horizontal Diffuse Angle(10%,50%): H159.5,H113.4
Vertical Diffuse Angle(10%,50%): V245.6,V187.6
Luminaire Efficacy Rating (LER): 71 **Central Intensity: 63.49 cd**
Max. Intensity: 84.57 cd **Pos of Max. Intensity: H90 V43**

Picture Of Luminaire

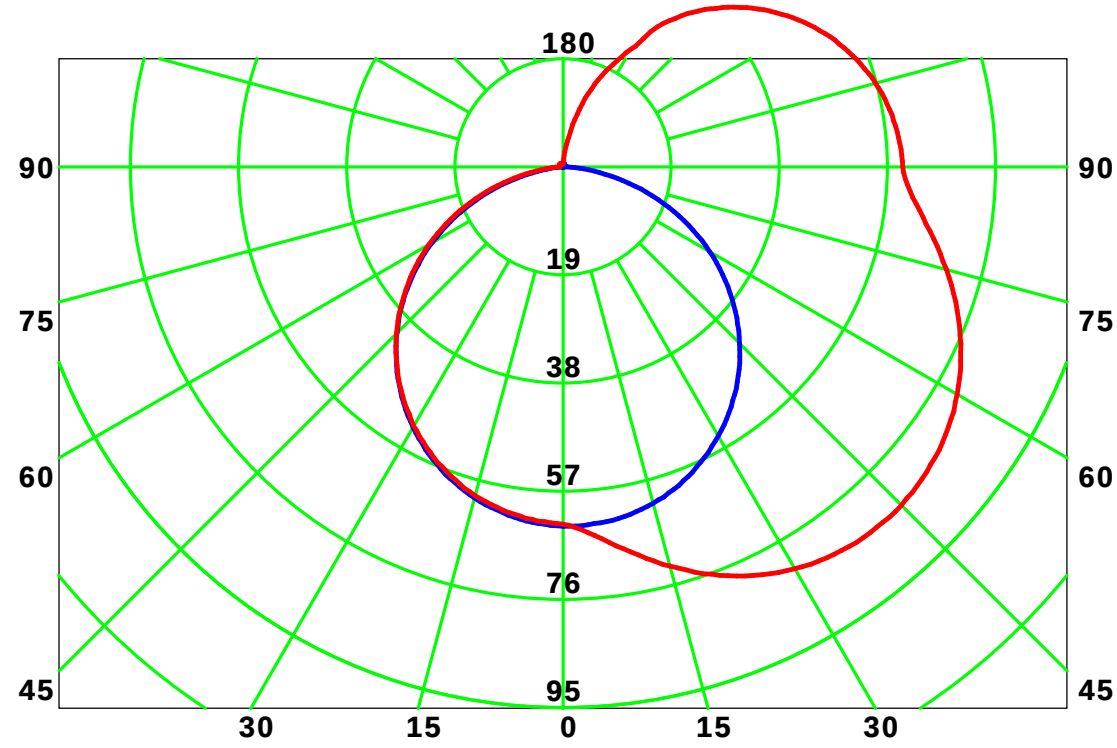


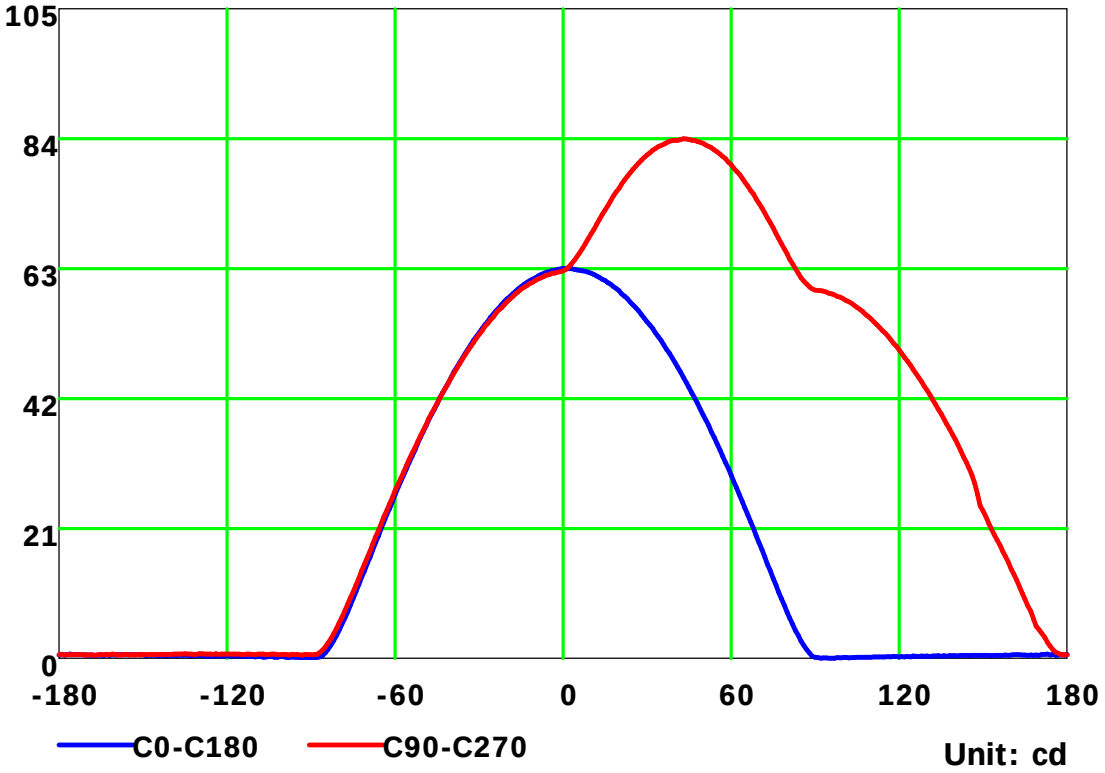
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0 **Gamma Plane (°):0.0-180.0:1.0**
Test Lab: **Test Device: GPM-1800B**
Test Type: TYPE C **Distance: 9.028 m**
Temperature: 25 **Humidity: 60%**
Operator: Nick **Inspector:**

Luminous Intensity Distribution Curve





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Temperature: 25
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Gamma Plane (°):0.0-180.0:1.0
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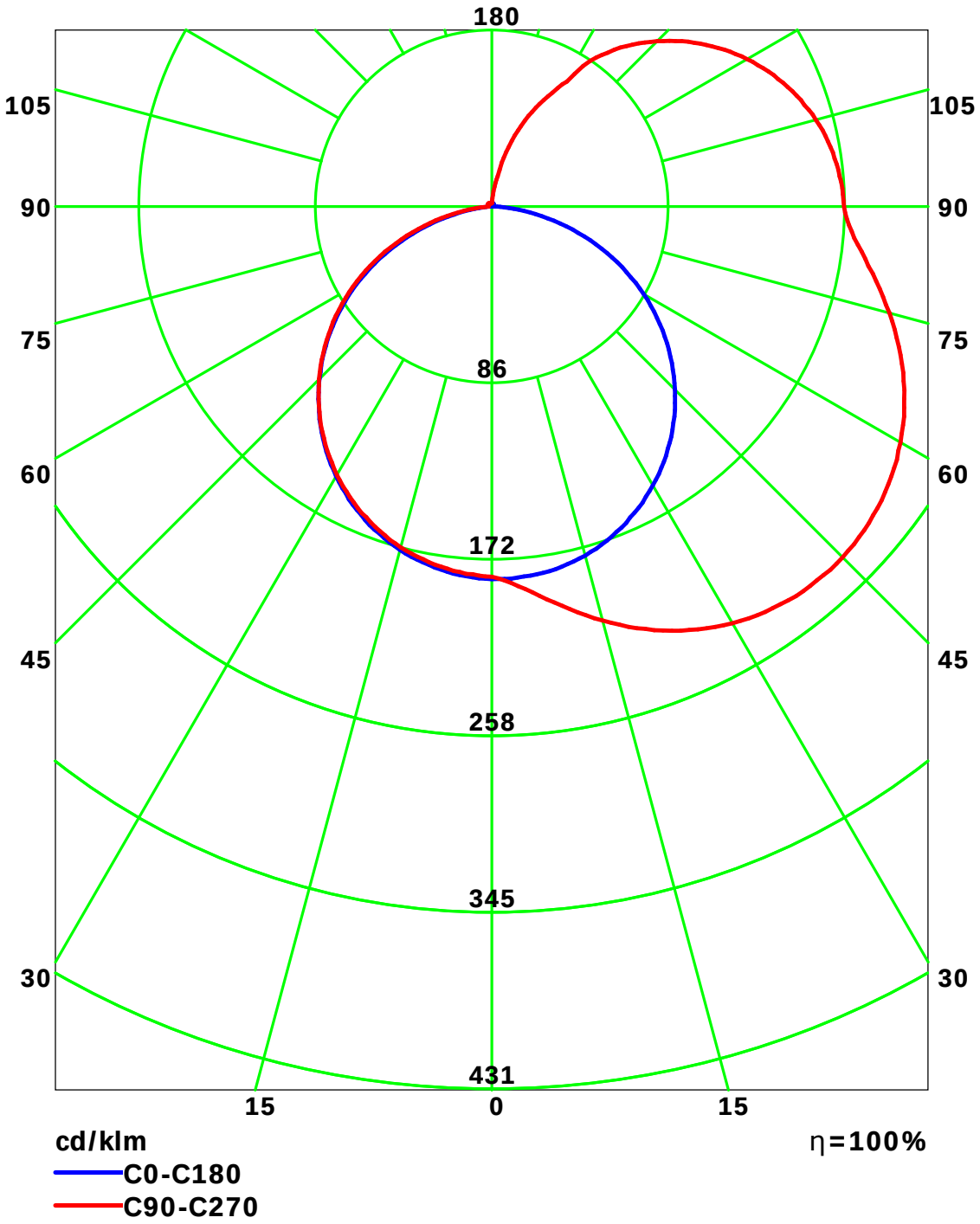
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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

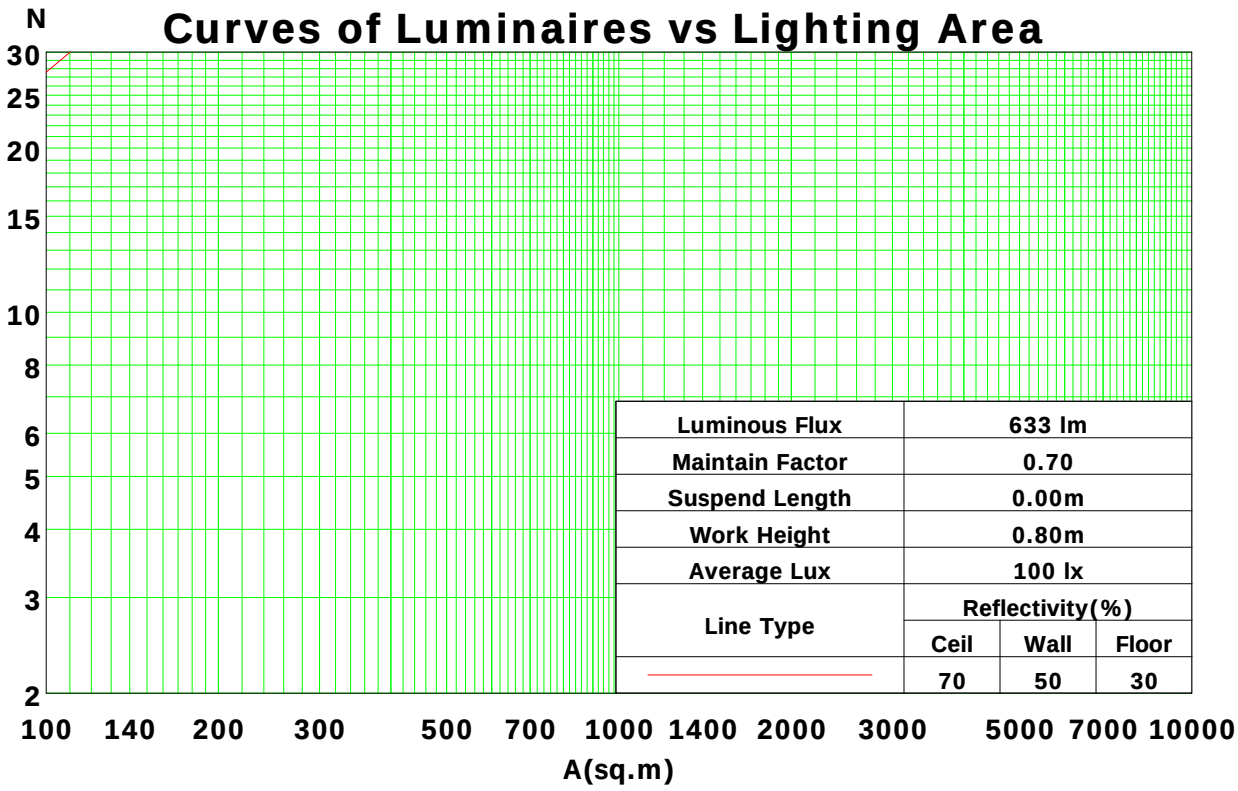
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	77
1	101	95	90	85	96	90	86	82	82	78	75	74	71	68	67	64	62	58
2	91	81	74	67	86	77	70	65	70	64	60	63	59	55	57	53	50	47
3	82	70	62	55	77	67	59	53	61	54	49	55	49	45	49	45	41	38
4	75	62	52	45	70	59	50	44	53	46	41	48	42	38	43	39	35	32
5	68	55	45	38	64	52	44	37	47	40	35	43	37	32	39	34	30	27
6	63	49	40	33	59	47	38	32	42	35	30	39	32	28	35	30	26	23
7	58	44	35	29	55	42	34	28	38	31	26	35	29	24	32	26	22	20
8	54	40	31	25	51	38	30	24	35	28	23	32	26	21	29	24	20	18
9	50	36	28	22	47	35	27	22	32	25	20	29	23	19	27	22	18	16
10	47	33	25	20	44	32	25	19	29	23	18	27	21	17	25	20	16	14

Spacing Criteria (0-180): 1.26
Spacing Criteria (90-270): 1.59
Spacing Criteria (Diagonal): 1.59

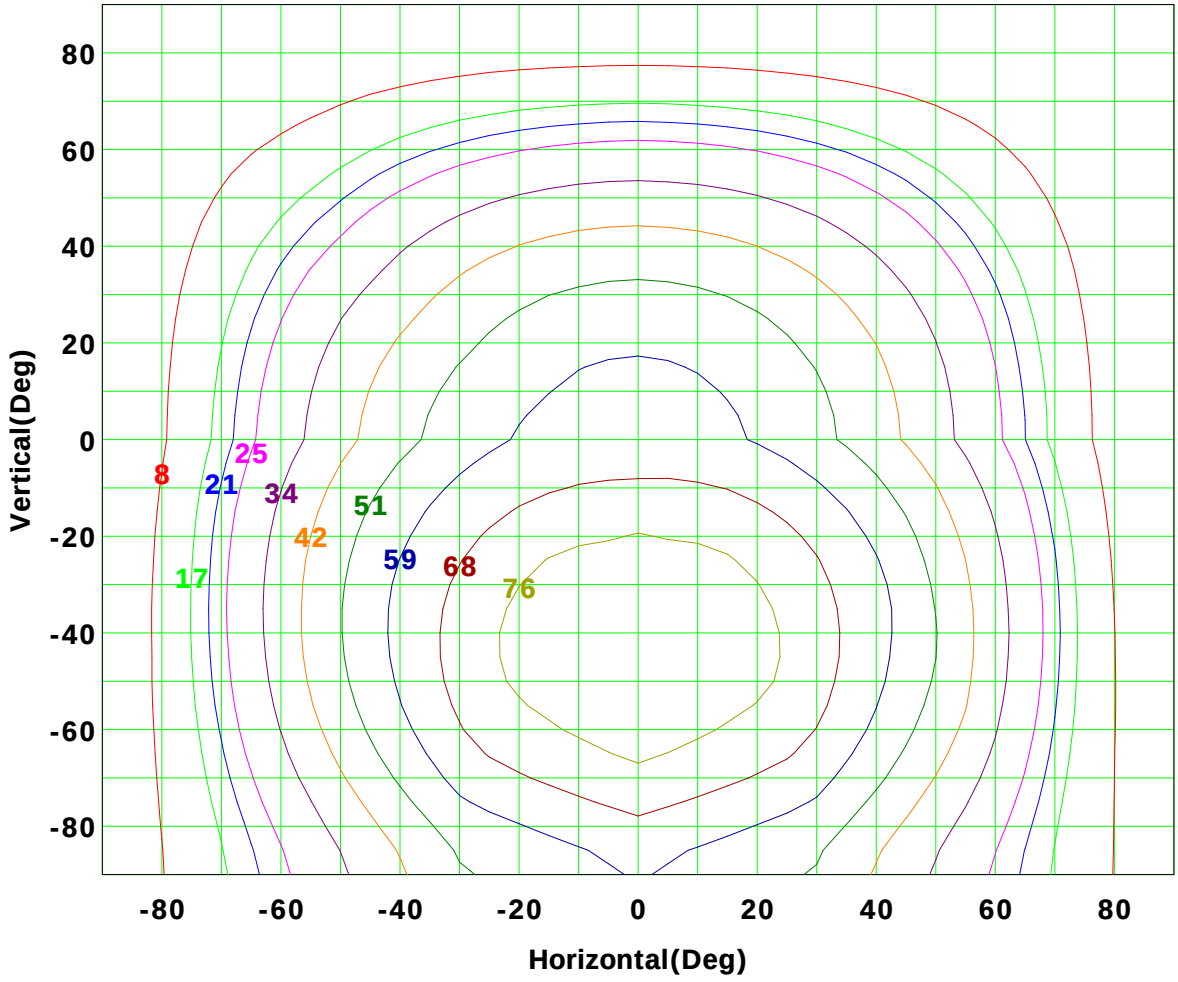
Curves of Luminaires vs Lighting Area



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)



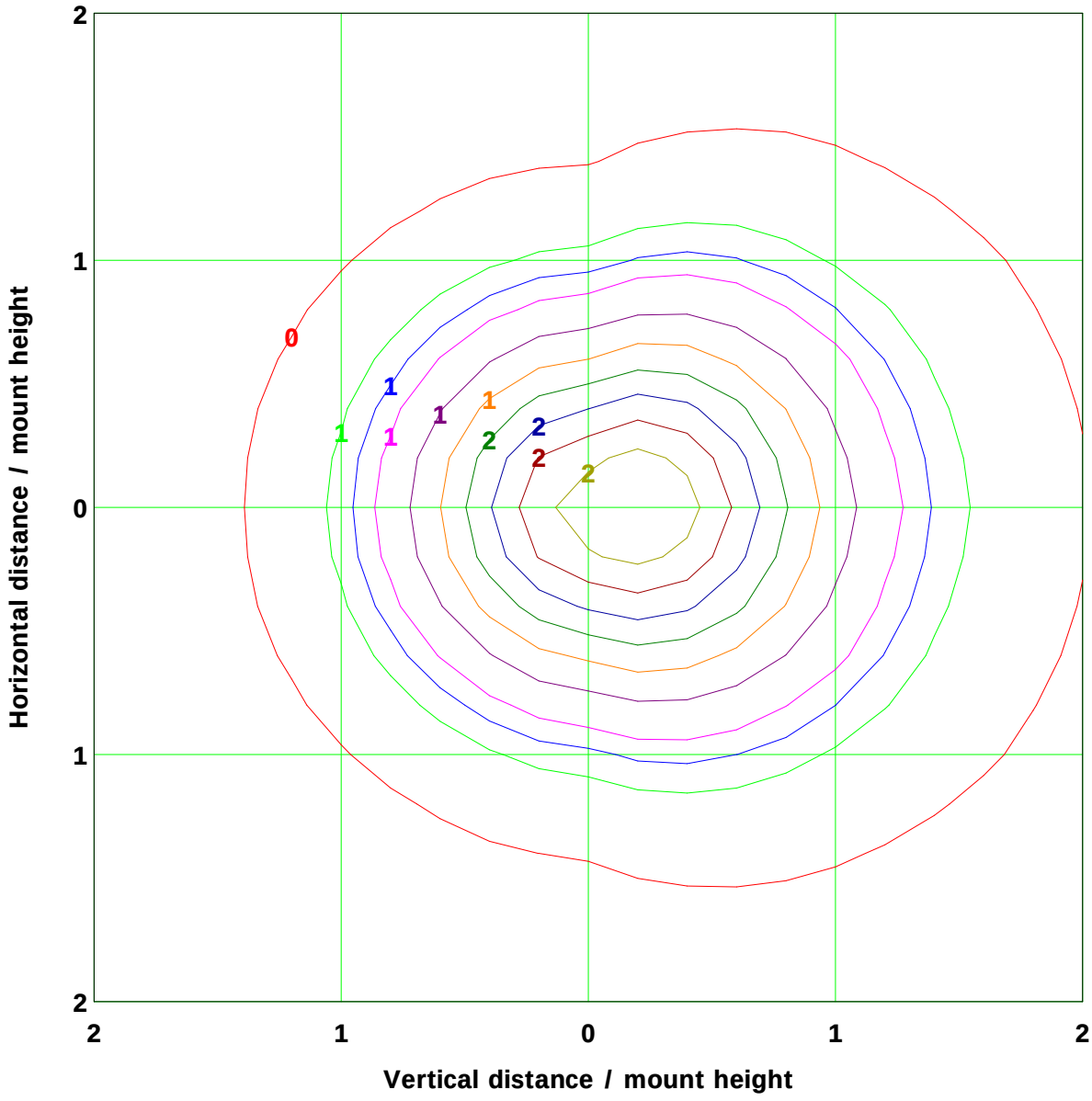
Imax (100%): 85 cd

(10%):	8 cd	(20%):	17 cd
(25%):	21 cd	(30%):	25 cd
(40%):	34 cd	(50%):	42 cd
(60%):	51 cd	(70%):	59 cd
(80%):	68 cd	(90%):	76 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%): 2.6 lx

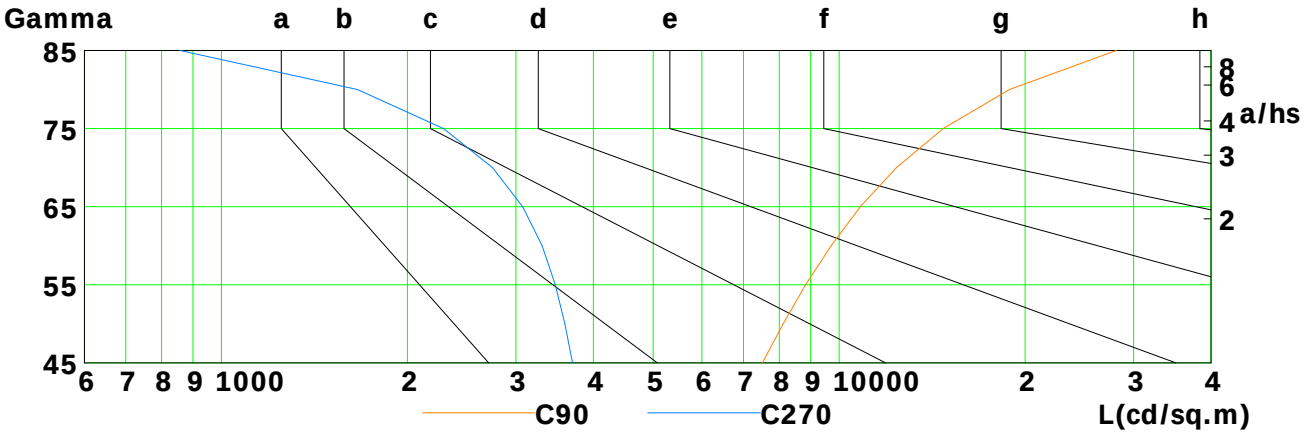
(10%): 0.3 lx	(20%): 0.5 lx
(25%): 0.7 lx	(30%): 0.8 lx
(40%): 1.1 lx	(50%): 1.3 lx
(60%): 1.6 lx	(70%): 1.9 lx
(80%): 2.1 lx	(90%): 2.4 lx

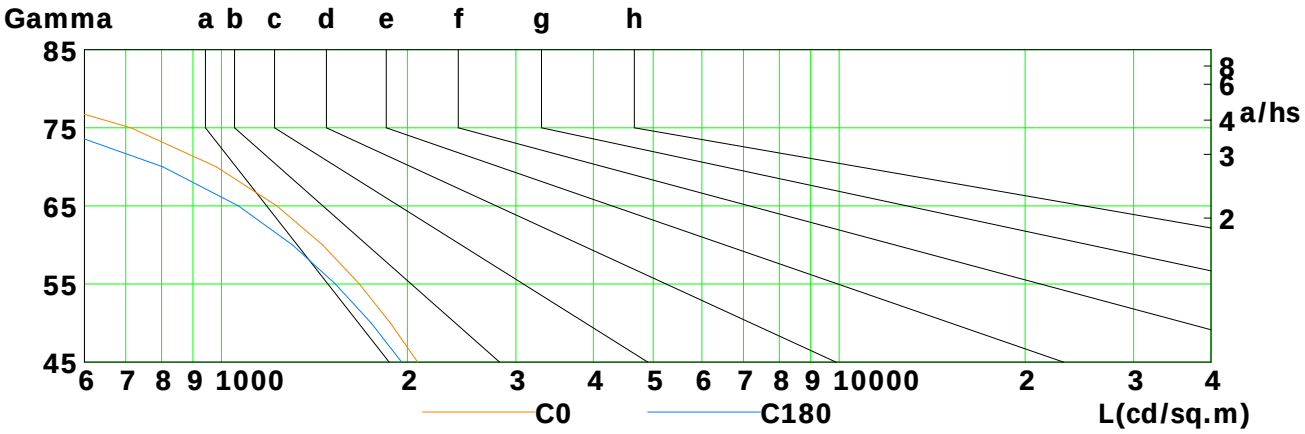
C Plane (°):0.0-360.0: 30.0
Test Lab:
Test Type: TYPE C
Temperature: 25
Operator: Nick

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



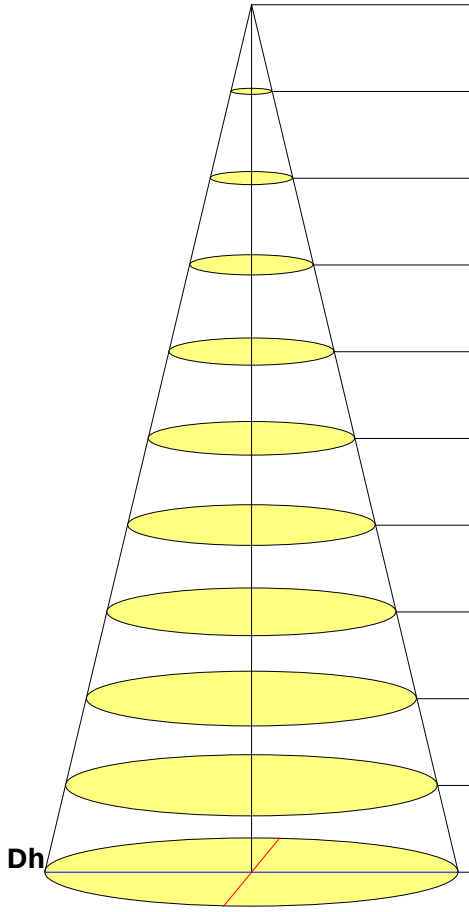


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2079	1879	1673	1458	1230	981	714	434	179
C90	7514	8117	8828	9708	10830	12393	14753	18868	28118
C180	1959	1748	1530	1303	1066	805	536	265	60
C270	3704	3598	3472	3307	3076	2748	2290	1661	858

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



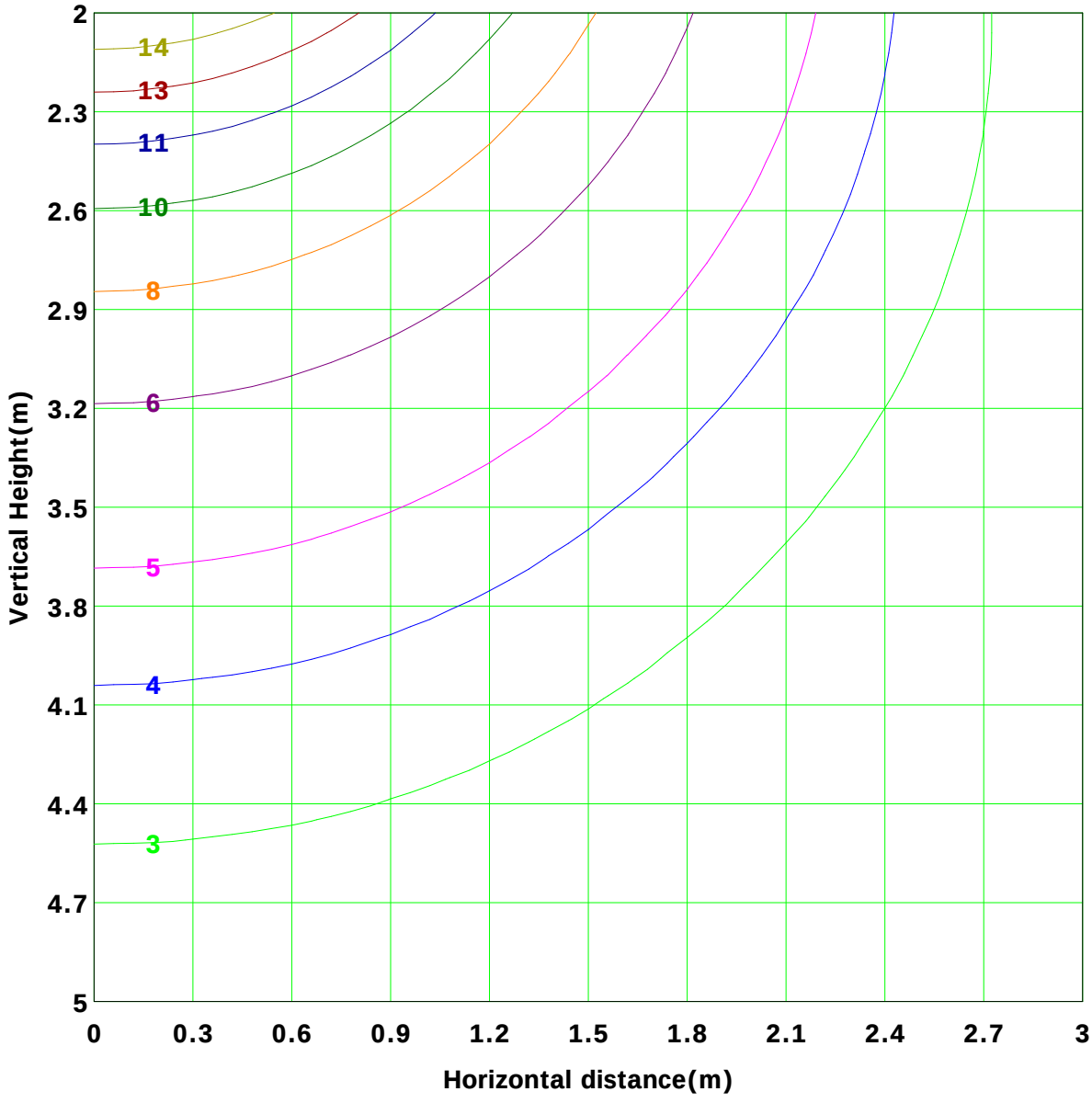
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	63.49	3.05/NA	NA	NA
2.0	15.87	6.09/NA	NA	NA
3.0	7.05	9.14/NA	NA	NA
4.0	3.97	12.19/NA	NA	NA
5.0	2.54	15.23/NA	NA	NA
6.0	1.76	18.28/NA	NA	NA
7.0	1.30	21.33/NA	NA	NA
8.0	0.99	24.37/NA	NA	NA
9.0	0.78	27.42/NA	NA	NA
10.0	0.63	30.47/NA	NA	NA

Beam Angle(B): H113.4 V187.6 Field Angle(F): H159.5 V245.6

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:

Vertical IsoLux Plot



Lowest(m): 2.0m Highest(m): 5.0m Max Lux: 15.9 lx

(10%): 1.6 lx	(20%): 3.2 lx
(25%): 4.0 lx	(30%): 4.8 lx
(40%): 6.3 lx	(50%): 7.9 lx
(60%): 9.5 lx	(70%): 11.1 lx
(80%): 12.7 lx	(90%): 14.3 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

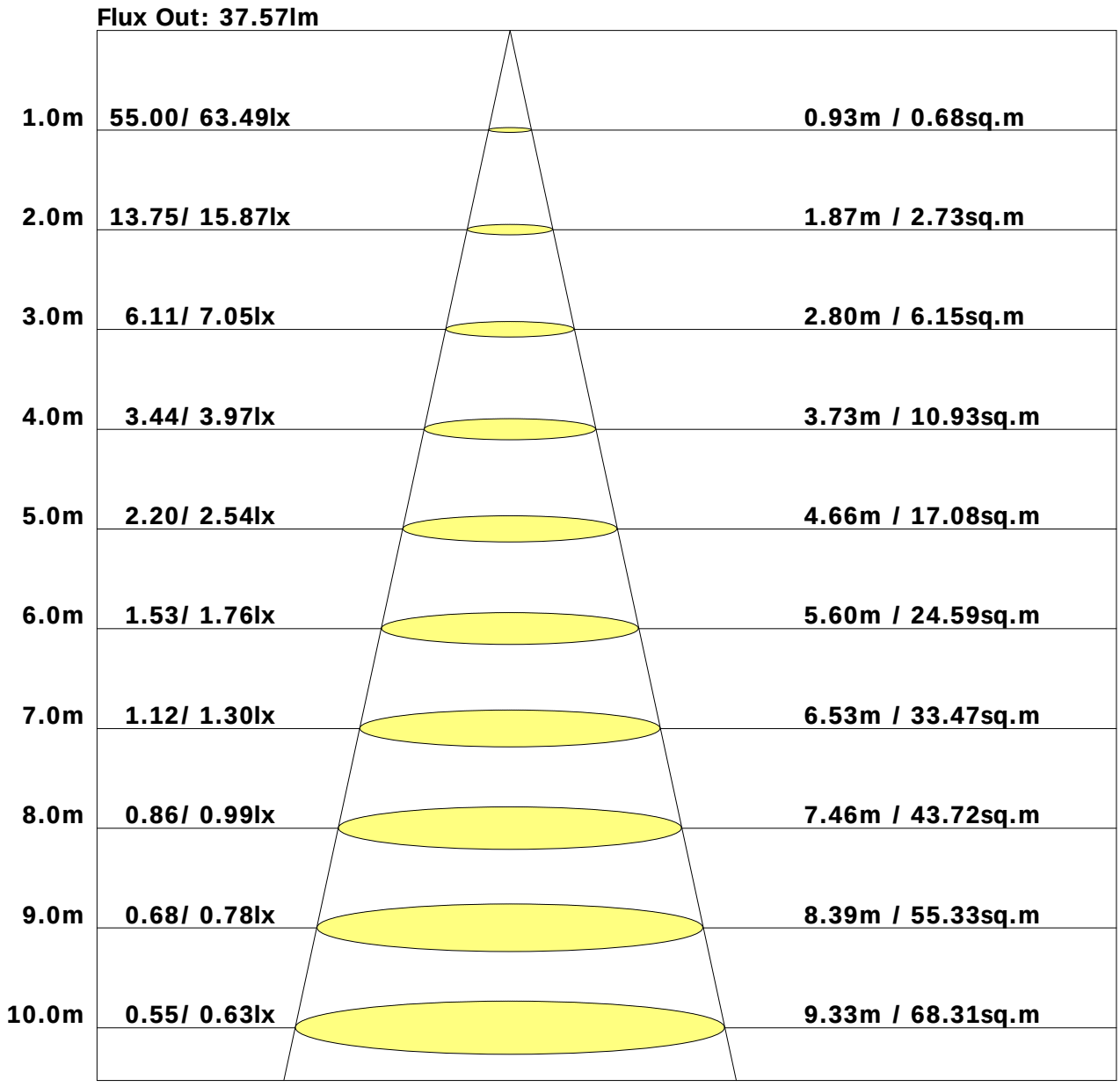
Unit: lm

Vertical plane	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Horizontal 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	0.1	0.0
-80	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	0.0	0.0	1.4	1.2
-70	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.0	4.5	4.3
-60	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.7	0.7	0.6	0.5	0.0	9.0	8.9
-50	0.0	0.0	0.1	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.2	1.2	1.2	1.1	1.0	0.8	0.0	14.3	14.2
-40	0.0	0.0	0.2	0.4	0.6	0.8	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.7	1.6	1.5	1.3	1.2	0.0	19.9	19.7
-30	0.0	0.0	0.3	0.6	0.8	1.0	1.2	1.4	1.5	1.6	1.8	2.0	2.0	2.0	1.9	1.8	1.6	1.5	0.1	24.8	24.7
-20	0.0	0.1	0.3	0.6	0.9	1.2	1.4	1.6	1.7	1.9	2.1	2.2	2.3	2.4	2.3	2.1	1.9	1.7	0.1	28.3	28.2
-10	0.0	0.1	0.3	0.7	1.0	1.3	1.5	1.7	1.8	1.9	2.2	2.4	2.5	2.5	2.5	2.3	2.1	1.8	0.1	30.4	30.2
0	0.0	0.1	0.3	0.7	1.1	1.5	1.7	1.8	1.9	2.0	2.2	2.4	2.5	2.5	2.4	2.3	2.1	1.8	0.1	30.3	30.2
10	0.0	0.1	0.3	0.7	1.1	1.5	1.8	1.9	1.9	2.0	2.2	2.4	2.5	2.5	2.3	2.3	2.1	1.7	0.1	28.3	28.2
20	0.0	0.1	0.3	0.7	1.2	1.6	1.8	1.9	1.8	1.8	2.1	2.2	2.3	2.3	2.2	2.1	1.9	1.6	0.1	24.8	24.7
30	0.0	0.1	0.3	0.7	1.2	1.6	1.8	1.8	1.7	1.7	1.9	2.0	2.0	2.0	1.9	1.8	1.6	1.4	0.1	19.9	19.8
40	0.0	0.1	0.3	0.7	1.2	1.6	1.7	1.7	1.6	1.6	1.7	1.8	1.8	1.8	1.7	1.6	1.4	1.2	0.0	14.5	14.3
50	0.0	0.1	0.3	0.7	1.2	1.6	1.7	1.7	1.6	1.6	1.7	1.8	1.8	1.8	1.7	1.6	1.4	1.2	0.0	9.2	9.1
60	0.0	0.1	0.3	0.7	1.2	1.6	1.7	1.7	1.6	1.6	1.7	1.8	1.8	1.8	1.7	1.6	1.4	1.2	0.0	4.8	4.6
70	0.0	0.1	0.3	0.7	1.2	1.6	1.7	1.7	1.6	1.6	1.7	1.8	1.8	1.8	1.7	1.6	1.4	1.2	0.0	1.7	1.5
80	0.0	0.1	0.3	0.7	1.2	1.6	1.7	1.7	1.6	1.6	1.7	1.8	1.8	1.8	1.7	1.6	1.4	1.2	0.0	0.2	0.0
90	0.0	0.1	0.3	0.7	1.2	1.6	1.7	1.7	1.6	1.6	1.7	1.8	1.8	1.8	1.7	1.6	1.4	1.2	0.0	266	
Flux(T)	0.1	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			
Flux(E)	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			

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



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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	17.5	18.8	18.2	19.5	20.3	20.7	21.9	21.3	22.6	23.5
3H	19.3	20.5	20.0	21.2	22.1	23.2	24.4	23.9	25.1	26.0
4H	20.0	21.1	20.7	21.8	22.7	24.4	25.6	25.2	26.3	27.2
6H	20.4	21.5	21.1	22.2	23.1	25.6	26.7	26.3	27.4	28.3
8H	20.5	21.5	21.3	22.3	23.2	26.2	27.2	26.9	27.9	28.8
12H	20.6	21.6	21.4	22.3	23.2	26.7	27.7	27.5	28.4	29.3
X=4H Y=2H	18.4	19.5	19.1	20.2	21.1	21.2	22.4	21.9	23.1	24.0
3H	20.4	21.4	21.2	22.2	23.0	24.1	25.1	24.8	25.8	26.7
4H	21.3	22.1	22.0	22.9	23.8	25.5	26.4	26.2	27.1	28.1
6H	21.9	22.7	22.6	23.4	24.4	26.9	27.6	27.6	28.4	29.4
8H	22.1	22.8	22.8	23.6	24.5	27.5	28.2	28.3	29.0	30.0
12H	22.2	22.9	23.0	23.7	24.6	28.2	28.8	28.9	29.6	30.6
X=8H Y=4H	21.9	22.7	22.7	23.4	24.4	25.9	26.6	26.6	27.4	28.3
6H	22.8	23.4	23.6	24.2	25.2	27.4	28.1	28.2	28.9	29.8
8H	23.1	23.7	23.9	24.5	25.5	28.3	28.8	29.1	29.6	30.6
12H	23.4	23.9	24.2	24.7	25.7	29.1	29.6	29.9	30.4	31.4
X=12H Y=4H	22.1	22.8	22.9	23.6	24.5	25.9	26.6	26.7	27.4	28.3
6H	23.1	23.6	23.9	24.4	25.4	27.6	28.1	28.4	28.9	29.9
8H	23.5	24.0	24.3	24.8	25.8	28.4	28.9	29.2	29.8	30.8

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 = 1.50								
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	0.48	0.56	0.63	0.68	0.75	0.80	0.84	0.88	0.92
	0.30		0.40	0.48	0.55	0.60	0.68	0.74	0.78	0.84	0.87
	0.20		0.34	0.41	0.49	0.54	0.62	0.68	0.73	0.79	0.84
0.50	0.50	0.20	0.44	0.51	0.57	0.62	0.68	0.73	0.76	0.80	0.83
	0.30		0.37	0.44	0.51	0.56	0.63	0.68	0.71	0.76	0.80
	0.20		0.32	0.39	0.46	0.51	0.58	0.63	0.67	0.73	0.77
0.30	0.50	0.20	0.40	0.47	0.52	0.56	0.62	0.66	0.69	0.73	0.75
	0.30		0.35	0.41	0.47	0.51	0.57	0.62	0.65	0.70	0.73
	0.20		0.30	0.36	0.43	0.47	0.54	0.58	0.62	0.67	0.70
0.00	0.00	0.00	0.26	0.31	0.37	0.41	0.46	0.50	0.53	0.57	0.60

Rating:5W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50								
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	0.86	0.75	0.66	0.54	0.46	0.40	0.32	0.26
	0.30		0.84	0.74	0.65	0.58	0.49	0.42	0.37	0.30	0.25
	0.20		0.72	0.65	0.58	0.52	0.45	0.39	0.35	0.28	0.24
0.50	0.50	0.20	0.92	0.79	0.68	0.60	0.50	0.44	0.37	0.29	0.24
	0.30		0.78	0.69	0.60	0.54	0.45	0.39	0.34	0.28	0.23
	0.20		0.67	0.61	0.54	0.49	0.42	0.36	0.32	0.26	0.22
0.30	0.50	0.20	0.84	0.72	0.62	0.55	0.45	0.38	0.34	0.27	0.22
	0.30		0.72	0.64	0.56	0.50	0.42	0.36	0.32	0.26	0.22
	0.20		0.63	0.57	0.51	0.46	0.39	0.34	0.30	0.25	0.21
0.00	0.00	0.00	0.50	0.45	0.40	0.36	0.30	0.26	0.23	0.19	0.16

Rating:5W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50								
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	0.39	0.41	0.41	0.42	0.43	0.43	0.44	0.44	0.44
	0.30		0.32	0.34	0.35	0.36	0.37	0.39	0.39	0.40	0.41
	0.20		0.27	0.29	0.30	0.31	0.33	0.34	0.35	0.37	0.38
0.50	0.50	0.20	0.38	0.39	0.40	0.41	0.41	0.42	0.42	0.42	0.42
	0.30		0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40
	0.20		0.27	0.28	0.30	0.31	0.32	0.34	0.35	0.36	0.37
0.30	0.50	0.20	0.37	0.38	0.39	0.39	0.40	0.40	0.40	0.41	0.41
	0.30		0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.38
	0.20		0.27	0.28	0.29	0.30	0.32	0.33	0.34	0.35	0.36
0.00	0.00	0.00	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23

Rating:5W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	63.2	0.1	0.1	0.02	0.02
1.0-2.0	63.3	0.2	0.2	0.05	0.07
2.0-3.0	63.3	0.3	0.5	0.09	0.16
3.0-4.0	63.4	0.4	1.0	0.12	0.28
4.0-5.0	63.5	0.5	1.5	0.16	0.44
5.0-6.0	63.6	0.7	2.2	0.19	0.63
6.0-7.0	63.7	0.8	3.0	0.23	0.85
7.0-8.0	63.8	0.9	3.9	0.26	1.12
8.0-9.0	63.9	1.0	4.9	0.30	1.41
9.0-10.0	64.0	1.2	6.1	0.33	1.75
10.0-11.0	64.0	1.3	7.4	0.37	2.11
11.0-12.0	64.1	1.4	8.8	0.40	2.52
12.0-13.0	64.1	1.5	10.3	0.44	2.95
13.0-14.0	64.1	1.6	11.9	0.47	3.43
14.0-15.0	64.2	1.8	13.7	0.51	3.93
15.0-16.0	64.1	1.9	15.6	0.54	4.47
16.0-17.0	64.1	2.0	17.6	0.57	5.04
17.0-18.0	64.1	2.1	19.7	0.61	5.65
18.0-19.0	64.0	2.2	21.9	0.64	6.29
19.0-20.0	63.9	2.3	24.2	0.67	6.96
20.0-21.0	63.8	2.5	26.7	0.70	7.67
21.0-22.0	63.7	2.6	29.3	0.74	8.40
22.0-23.0	63.6	2.7	31.9	0.77	9.17
23.0-24.0	63.4	2.8	34.7	0.80	9.96
24.0-25.0	63.2	2.9	37.6	0.83	10.79
25.0-26.0	63.0	3.0	40.5	0.85	11.64
26.0-27.0	62.8	3.1	43.6	0.88	12.53
27.0-28.0	62.5	3.2	46.8	0.91	13.44
28.0-29.0	62.3	3.3	50.0	0.94	14.37
29.0-30.0	62.0	3.3	53.4	0.96	15.33
30.0-31.0	61.7	3.4	56.8	0.99	16.32
31.0-32.0	61.3	3.5	60.3	1.01	17.33
32.0-33.0	61.0	3.6	63.9	1.03	18.36
33.0-34.0	60.6	3.7	67.6	1.05	19.41
34.0-35.0	60.2	3.7	71.3	1.07	20.49
35.0-36.0	59.8	3.8	75.1	1.09	21.58

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	59.4	3.9	79.0	1.11	22.69
37.0-38.0	58.9	3.9	83.0	1.13	23.82
38.0-39.0	58.5	4.0	86.9	1.15	24.97
39.0-40.0	57.9	4.0	91.0	1.16	26.13
40.0-41.0	57.4	4.1	95.1	1.17	27.31
41.0-42.0	56.9	4.1	99.2	1.19	28.49
42.0-43.0	56.3	4.2	103.4	1.20	29.69
43.0-44.0	55.8	4.2	107.6	1.21	30.90
44.0-45.0	55.2	4.2	111.8	1.22	32.12
45.0-46.0	54.6	4.3	116.1	1.23	33.34
46.0-47.0	53.9	4.3	120.4	1.23	34.58
47.0-48.0	53.3	4.3	124.7	1.24	35.81
48.0-49.0	52.6	4.3	129.0	1.24	37.06
49.0-50.0	51.9	4.3	133.4	1.24	38.30
50.0-51.0	51.2	4.3	137.7	1.24	39.54
51.0-52.0	50.5	4.3	142.0	1.24	40.79
52.0-53.0	49.7	4.3	146.3	1.24	42.03
53.0-54.0	49.0	4.3	150.7	1.24	43.27
54.0-55.0	48.2	4.3	155.0	1.24	44.50
55.0-56.0	47.4	4.3	159.2	1.23	45.73
56.0-57.0	46.6	4.3	163.5	1.22	46.96
57.0-58.0	45.7	4.2	167.7	1.21	48.17
58.0-59.0	44.9	4.2	171.9	1.20	49.37
59.0-60.0	44.0	4.2	176.1	1.19	50.57
60.0-61.0	43.1	4.1	180.2	1.18	51.75
61.0-62.0	42.2	4.1	184.3	1.17	52.92
62.0-63.0	41.2	4.0	188.3	1.15	54.07
63.0-64.0	40.3	4.0	192.2	1.14	55.20
64.0-65.0	39.3	3.9	196.1	1.12	56.32
65.0-66.0	38.4	3.8	199.9	1.10	57.42
66.0-67.0	37.4	3.8	203.7	1.08	58.50
67.0-68.0	36.4	3.7	207.4	1.06	59.56
68.0-69.0	35.4	3.6	211.0	1.04	60.60
69.0-70.0	34.3	3.5	214.5	1.01	61.61
70.0-71.0	33.3	3.4	218.0	0.99	62.60
71.0-72.0	32.3	3.4	221.3	0.96	63.56

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 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	31.2	3.3	224.6	0.94	64.50
73.0-74.0	30.2	3.2	227.8	0.91	65.41
74.0-75.0	29.1	3.1	230.9	0.88	66.30
75.0-76.0	28.1	3.0	233.8	0.86	67.16
76.0-77.0	27.1	2.9	236.7	0.83	67.98
77.0-78.0	26.0	2.8	239.5	0.80	68.78
78.0-79.0	25.0	2.7	242.2	0.77	69.56
79.0-80.0	24.0	2.6	244.8	0.74	70.30
80.0-81.0	23.1	2.5	247.3	0.72	71.02
81.0-82.0	22.2	2.4	249.7	0.69	71.71
82.0-83.0	21.3	2.3	252.0	0.66	72.37
83.0-84.0	20.5	2.2	254.2	0.64	73.01
84.0-85.0	19.8	2.2	256.4	0.62	73.63
85.0-86.0	19.1	2.1	258.5	0.60	74.23
86.0-87.0	18.5	2.0	260.5	0.58	74.81
87.0-88.0	18.1	2.0	262.5	0.57	75.38
88.0-89.0	17.8	2.0	264.4	0.56	75.95
89.0-90.0	17.7	1.9	266.4	0.56	76.50
90.0-91.0	17.6	1.9	268.3	0.55	77.06
91.0-92.0	17.5	1.9	270.2	0.55	77.61
92.0-93.0	17.5	1.9	272.1	0.55	78.16
93.0-94.0	17.5	1.9	274.1	0.55	78.71
94.0-95.0	17.4	1.9	276.0	0.55	79.25
95.0-96.0	17.4	1.9	277.9	0.54	79.80
96.0-97.0	17.3	1.9	279.7	0.54	80.34
97.0-98.0	17.3	1.9	281.6	0.54	80.88
98.0-99.0	17.2	1.9	283.5	0.54	81.41
99.0-100.0	17.1	1.9	285.3	0.53	81.95
100.0-101.0	17.1	1.8	287.2	0.53	82.47
101.0-102.0	17.0	1.8	289.0	0.52	83.00
102.0-103.0	16.9	1.8	290.8	0.52	83.52
103.0-104.0	16.8	1.8	292.6	0.51	84.03
104.0-105.0	16.7	1.8	294.4	0.51	84.54
105.0-106.0	16.6	1.8	296.1	0.50	85.05
106.0-107.0	16.5	1.7	297.9	0.50	85.55
107.0-108.0	16.4	1.7	299.6	0.49	86.04

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	16.3	1.7	301.3	0.49	86.53
109.0-110.0	16.2	1.7	303.0	0.48	87.01
110.0-111.0	16.0	1.6	304.6	0.47	87.48
111.0-112.0	15.9	1.6	306.2	0.47	87.95
112.0-113.0	15.8	1.6	307.8	0.46	88.41
113.0-114.0	15.7	1.6	309.4	0.45	88.86
114.0-115.0	15.5	1.5	311.0	0.44	89.30
115.0-116.0	15.4	1.5	312.5	0.44	89.74
116.0-117.0	15.2	1.5	314.0	0.43	90.17
117.0-118.0	15.1	1.5	315.4	0.42	90.59
118.0-119.0	14.9	1.4	316.9	0.41	91.00
119.0-120.0	14.7	1.4	318.3	0.40	91.40
120.0-121.0	14.5	1.4	319.6	0.39	91.80
121.0-122.0	14.3	1.3	321.0	0.39	92.18
122.0-123.0	14.2	1.3	322.3	0.38	92.56
123.0-124.0	14.0	1.3	323.6	0.37	92.93
124.0-125.0	13.8	1.2	324.8	0.36	93.28
125.0-126.0	13.6	1.2	326.0	0.35	93.63
126.0-127.0	13.4	1.2	327.2	0.34	93.97
127.0-128.0	13.2	1.1	328.3	0.33	94.30
128.0-129.0	13.0	1.1	329.5	0.32	94.62
129.0-130.0	12.7	1.1	330.5	0.31	94.93
130.0-131.0	12.5	1.0	331.6	0.30	95.23
131.0-132.0	12.2	1.0	332.6	0.29	95.52
132.0-133.0	12.0	1.0	333.6	0.28	95.79
133.0-134.0	11.7	0.9	334.5	0.27	96.06
134.0-135.0	11.5	0.9	335.4	0.26	96.32
135.0-136.0	11.2	0.9	336.2	0.25	96.57
136.0-137.0	10.9	0.8	337.1	0.24	96.80
137.0-138.0	10.7	0.8	337.9	0.23	97.03
138.0-139.0	10.4	0.8	338.6	0.22	97.25
139.0-140.0	10.2	0.7	339.3	0.21	97.46
140.0-141.0	9.9	0.7	340.0	0.20	97.66
141.0-142.0	9.7	0.7	340.7	0.19	97.84
142.0-143.0	9.4	0.6	341.3	0.18	98.02
143.0-144.0	9.0	0.6	341.9	0.17	98.19

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 [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	8.6	0.5	342.5	0.16	98.35
145.0-146.0	8.3	0.5	343.0	0.15	98.50
146.0-147.0	8.0	0.5	343.5	0.14	98.64
147.0-148.0	7.7	0.5	343.9	0.13	98.77
148.0-149.0	7.3	0.4	344.3	0.12	98.89
149.0-150.0	7.0	0.4	344.7	0.11	99.00
150.0-151.0	6.7	0.4	345.1	0.10	99.11
151.0-152.0	6.4	0.3	345.4	0.10	99.20
152.0-153.0	6.2	0.3	345.7	0.09	99.29
153.0-154.0	5.9	0.3	346.0	0.08	99.37
154.0-155.0	5.6	0.3	346.3	0.08	99.45
155.0-156.0	5.3	0.2	346.5	0.07	99.52
156.0-157.0	5.1	0.2	346.7	0.06	99.58
157.0-158.0	4.8	0.2	346.9	0.06	99.64
158.0-159.0	4.5	0.2	347.1	0.05	99.69
159.0-160.0	4.2	0.2	347.3	0.05	99.74
160.0-161.0	4.0	0.1	347.4	0.04	99.78
161.0-162.0	3.7	0.1	347.6	0.04	99.82
162.0-163.0	3.4	0.1	347.7	0.03	99.85
163.0-164.0	3.1	0.1	347.8	0.03	99.88
164.0-165.0	2.8	0.1	347.9	0.02	99.90
165.0-166.0	2.5	0.1	347.9	0.02	99.92
166.0-167.0	2.2	0.1	348.0	0.02	99.94
167.0-168.0	1.9	0.0	348.0	0.01	99.95
168.0-169.0	1.7	0.0	348.1	0.01	99.96
169.0-170.0	1.5	0.0	348.1	0.01	99.97
170.0-171.0	1.4	0.0	348.1	0.01	99.98
171.0-172.0	1.2	0.0	348.1	0.01	99.98
172.0-173.0	1.1	0.0	348.2	0.00	99.99
173.0-174.0	1.0	0.0	348.2	0.00	99.99
174.0-175.0	0.9	0.0	348.2	0.00	100.00
175.0-176.0	0.8	0.0	348.2	0.00	100.00
176.0-177.0	0.7	0.0	348.2	0.00	100.00
177.0-178.0	0.7	0.0	348.2	0.00	100.00
178.0-179.0	0.6	0.0	348.2	0.00	100.00
179.0-180.0	0.6	0.0	348.2	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: