GENLED Brands
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Report No.: **Test Time: 2023/9/14 10:26**

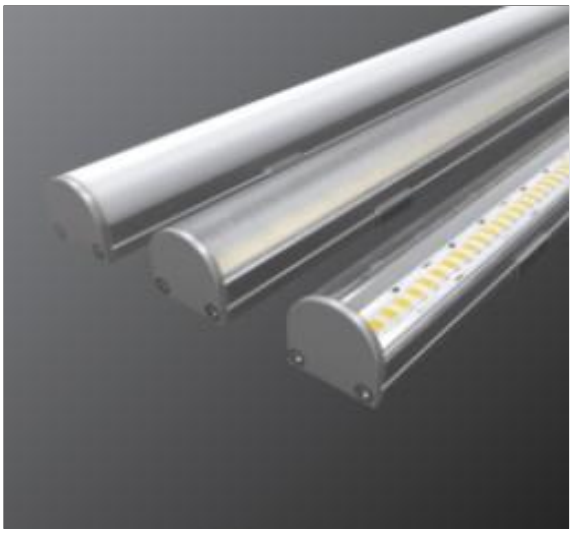
Luminaire Property

Luminaire Manufacturer: ACOLYTE
Luminaire Category: CHANNEL
Luminaire Description: CHAT4F90SWS2203.030
Luminous Length (mm): 500 **Luminous Width (mm): 19.6**
Luminous Height (mm): 18.8 **Voltage: 24.0 V**
Current: 0.203 A **Power: 4.89 W**
Power Factor: 1.000

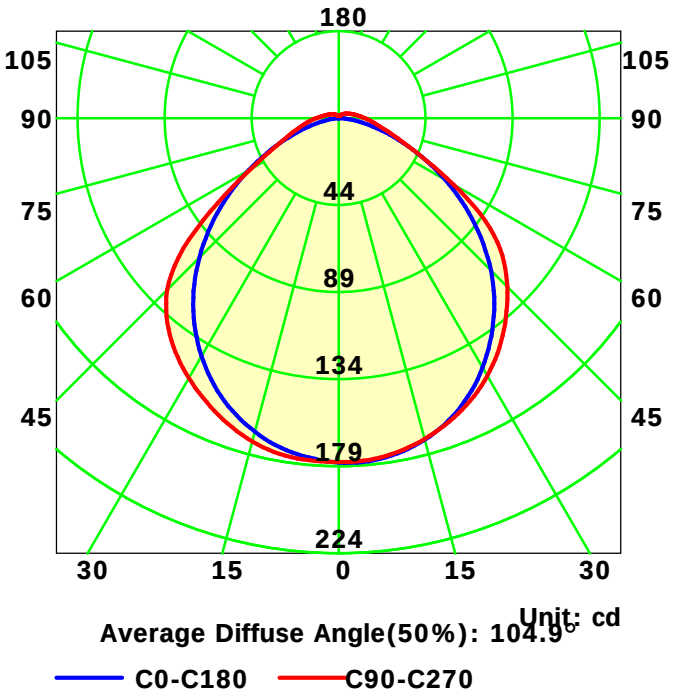
Photometric Results

CIE Class: Direct **Total Rated Lamp Lumens: 499.2 lm**
Measurement Flux: 499.2 lm **Efficiency: 100%**
Downward Ratio: 96% **Upward Ratio: 4%**
Horizontal Diffuse Angle(10%,50%): H149.7,H101.3
Vertical Diffuse Angle(10%,50%): V163.5,V108.6
Luminaire Efficacy Rating (LER): 102 **Central Intensity: 177.98 cd**
Max. Intensity: 178.43 cd **Pos of Max. Intensity: H60 V2**

Picture Of Luminaire

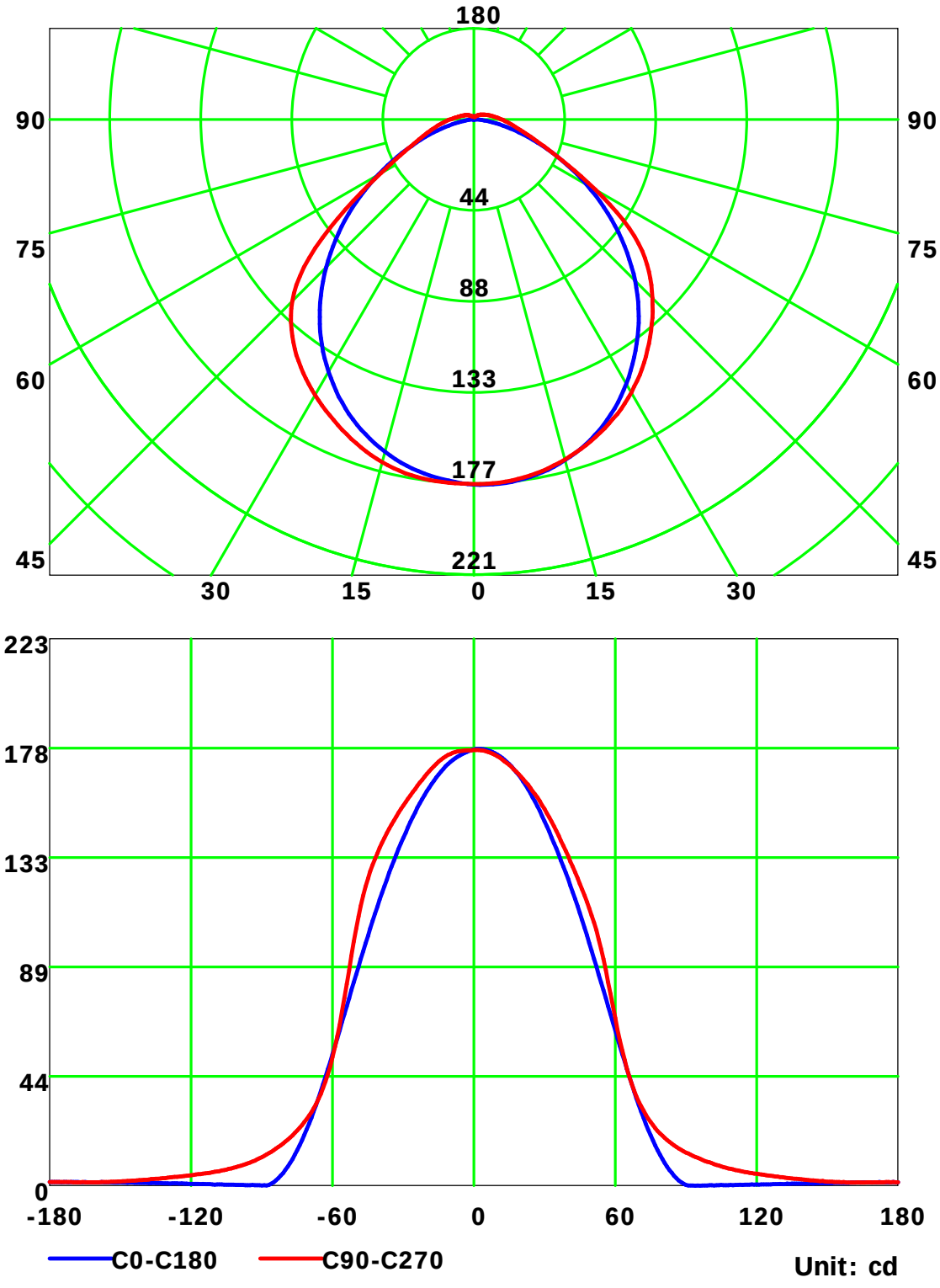


Luminous Intensity Distribution Curve



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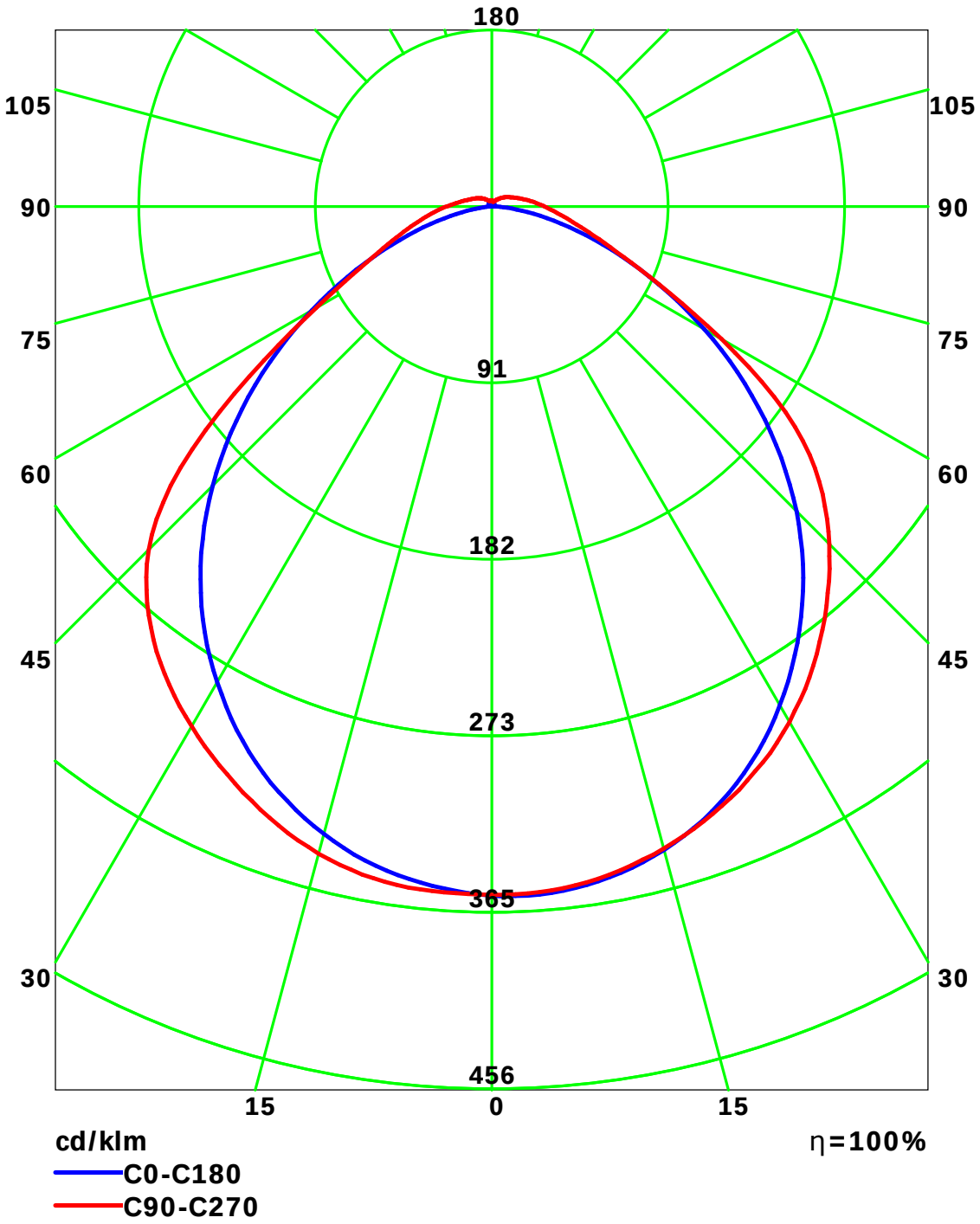
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 30.0
Test Lab:
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Temperature: 25
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Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
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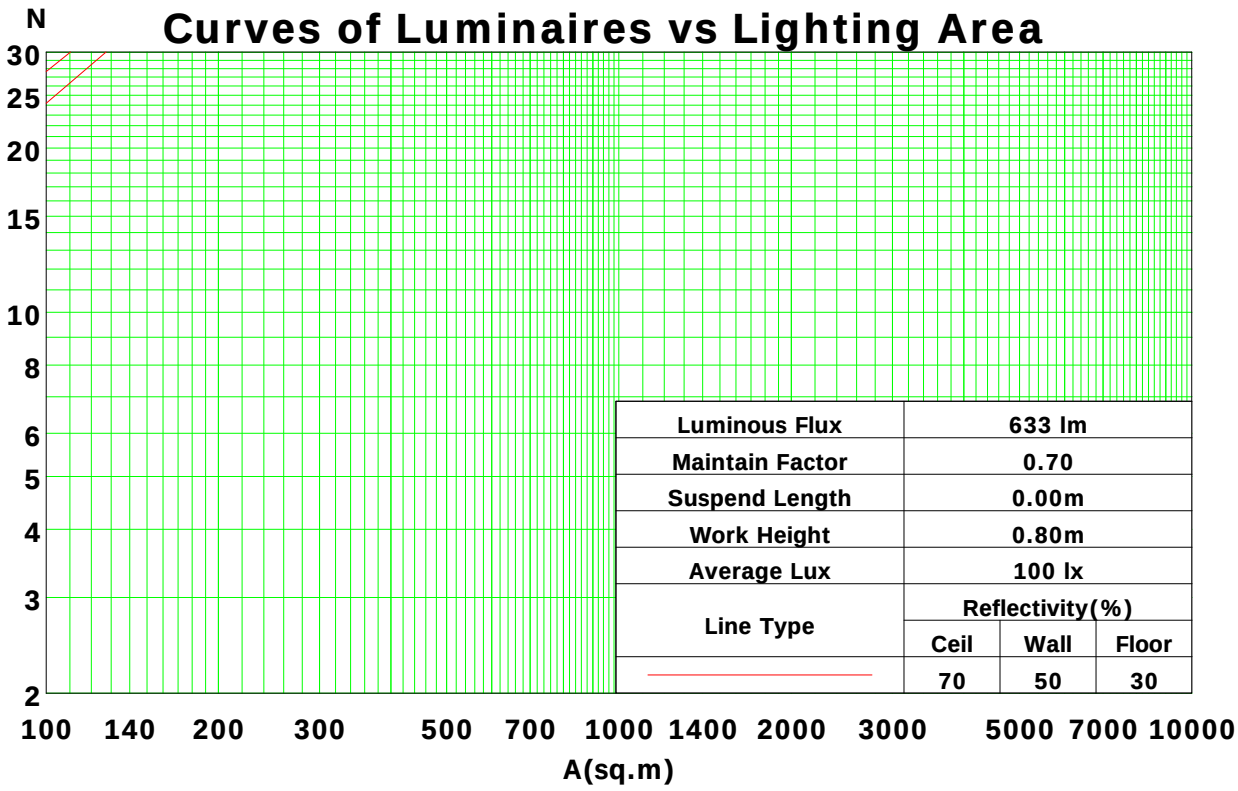
Inspector:

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	109	109	109	103	103	103	98	98	98	96
1	108	103	99	95	105	101	97	93	95	92	90	91	88	86	87	85	83	80
2	98	90	84	78	95	88	82	77	84	79	75	80	76	72	76	73	70	68
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	68	64	60	57
4	83	71	62	56	80	69	61	55	66	59	54	63	58	53	61	56	52	49
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43
6	70	57	49	42	68	56	48	42	54	47	41	52	45	40	50	44	40	38
7	65	52	43	37	63	51	43	37	49	42	36	47	41	36	46	40	35	33
8	61	47	39	33	59	47	39	33	45	38	33	43	37	32	42	36	32	30
9	57	44	35	30	55	43	35	30	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24

Spacing Criteria (0-180): 1.21
Spacing Criteria (90-270): 1.29
Spacing Criteria (Diagonal): 1.37

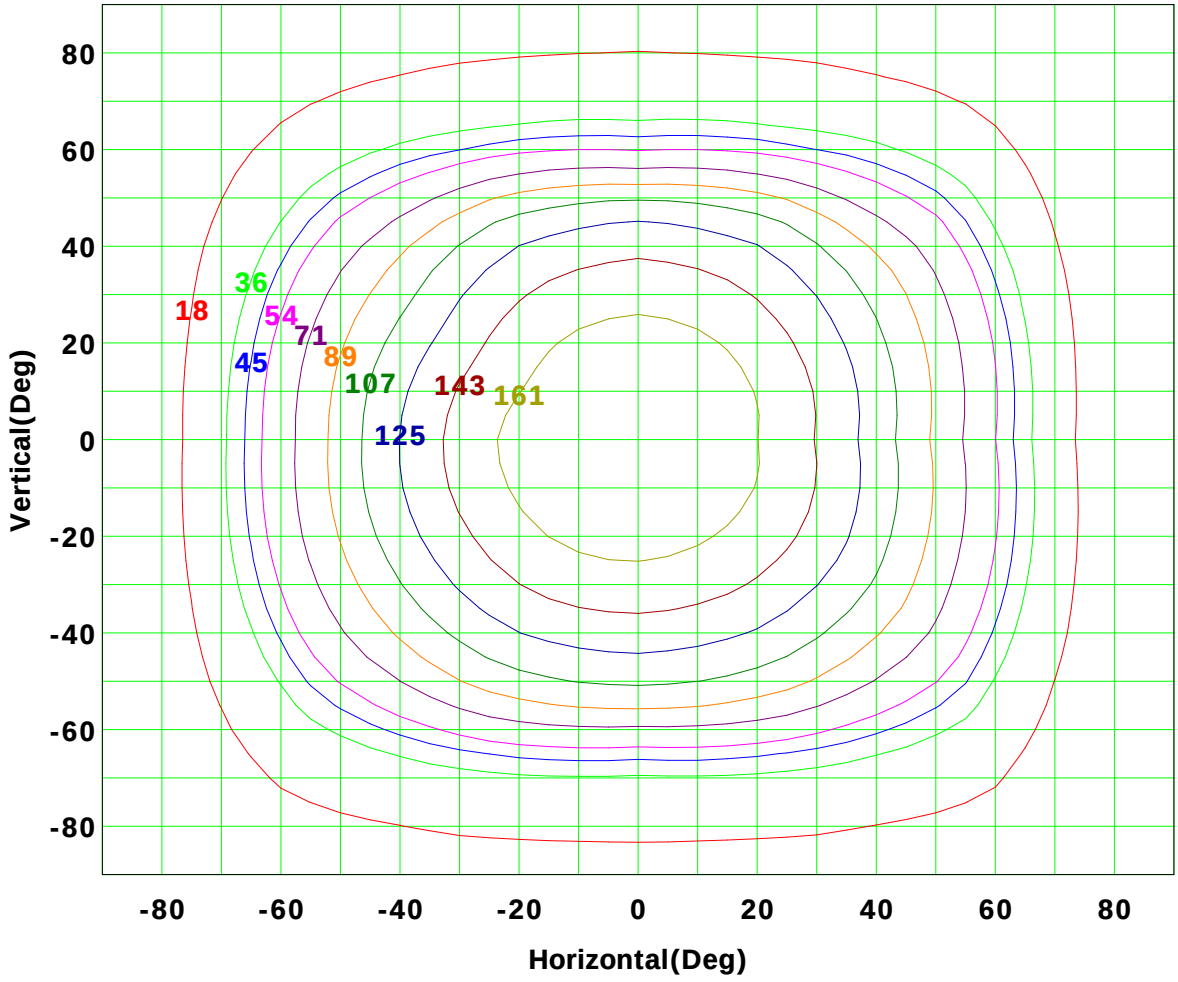
Curves of Luminaires vs Lighting Area



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)



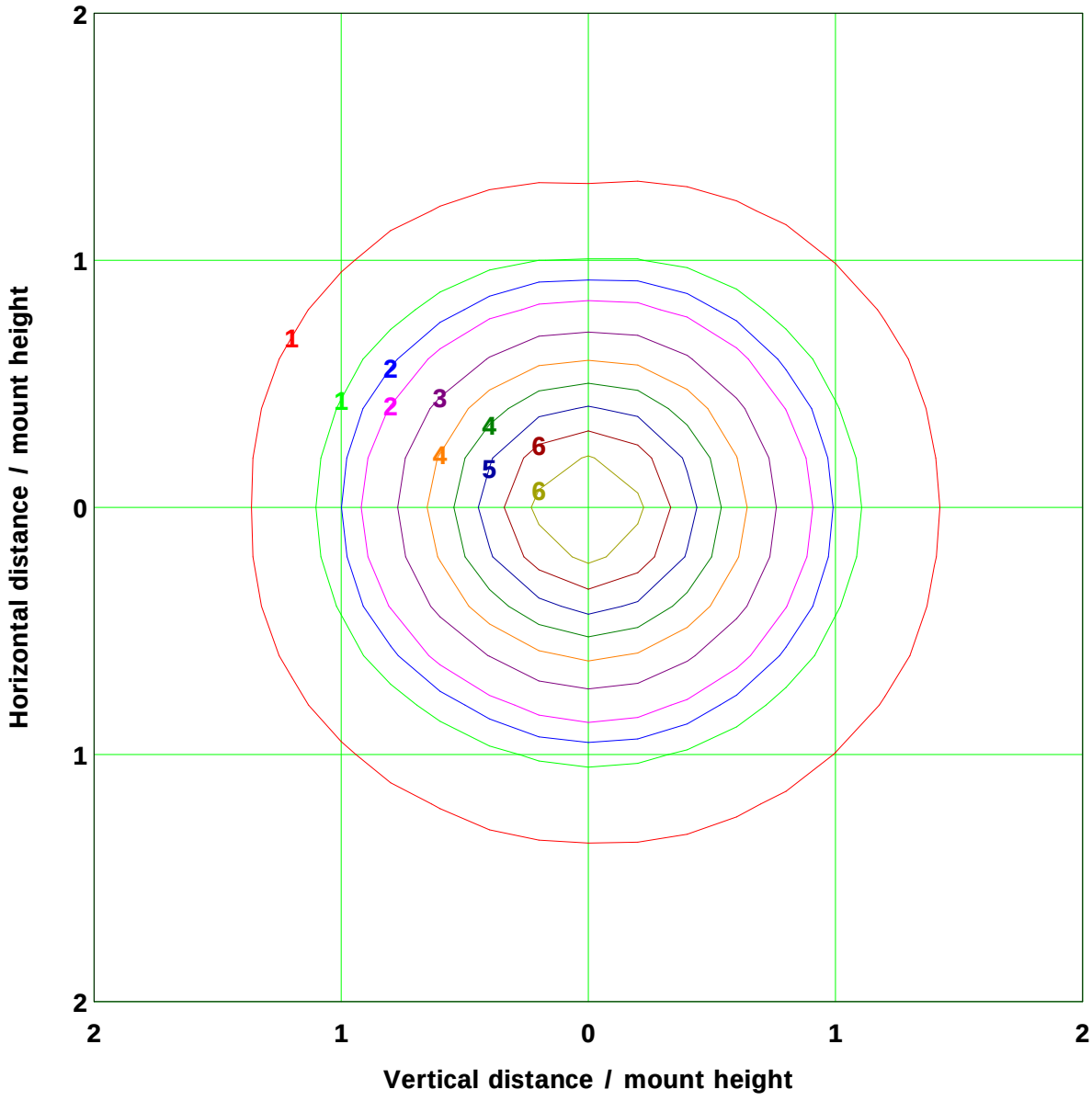
Imax (100%): 178 cd

(10%):	18 cd	(20%):	36 cd
(25%):	45 cd	(30%):	54 cd
(40%):	71 cd	(50%):	89 cd
(60%):	107 cd	(70%):	125 cd
(80%):	143 cd	(90%):	161 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%): 7.1 lx

(10%): 0.7 lx	(20%): 1.4 lx
(25%): 1.8 lx	(30%): 2.1 lx
(40%): 2.9 lx	(50%): 3.6 lx
(60%): 4.3 lx	(70%): 5.0 lx
(80%): 5.7 lx	(90%): 6.4 lx

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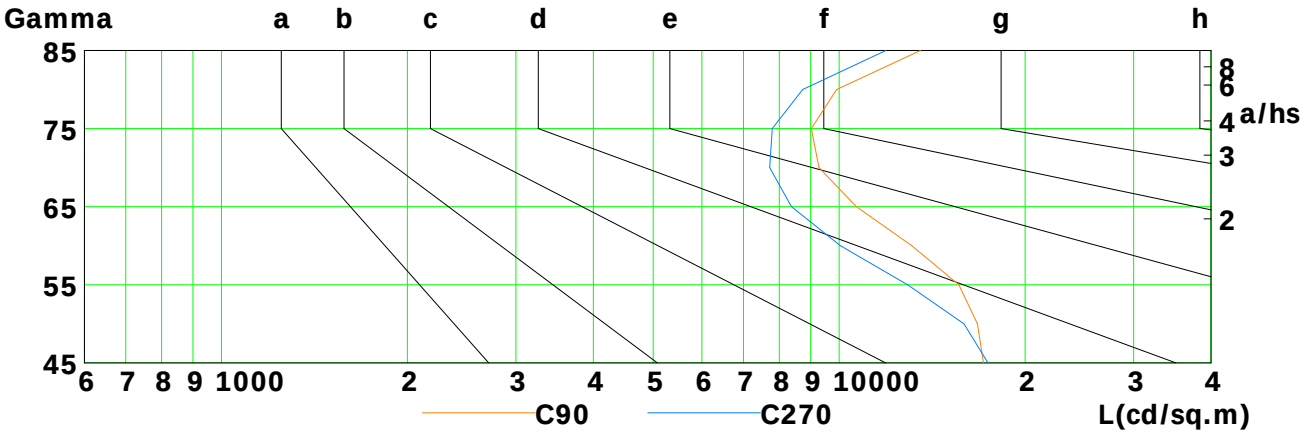
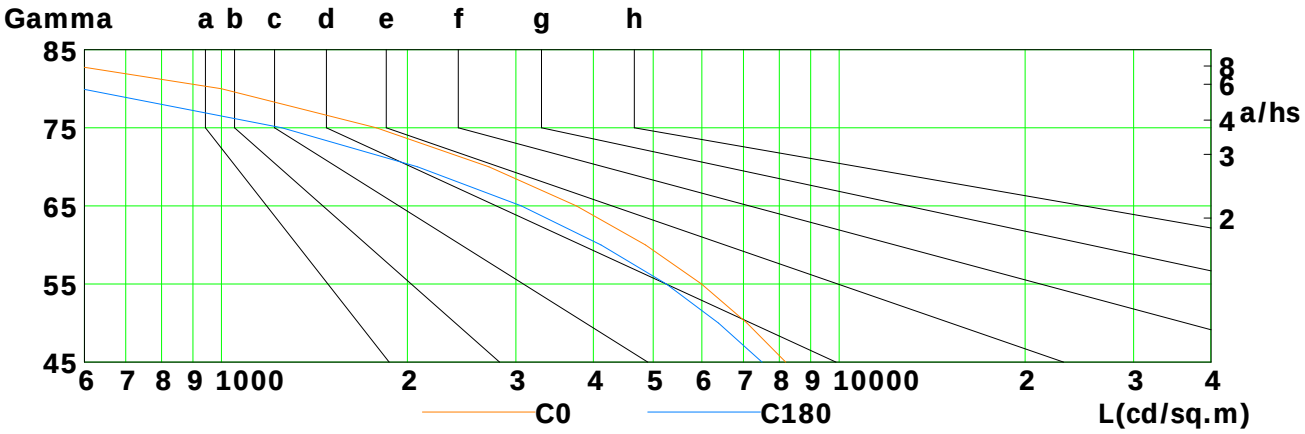
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

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



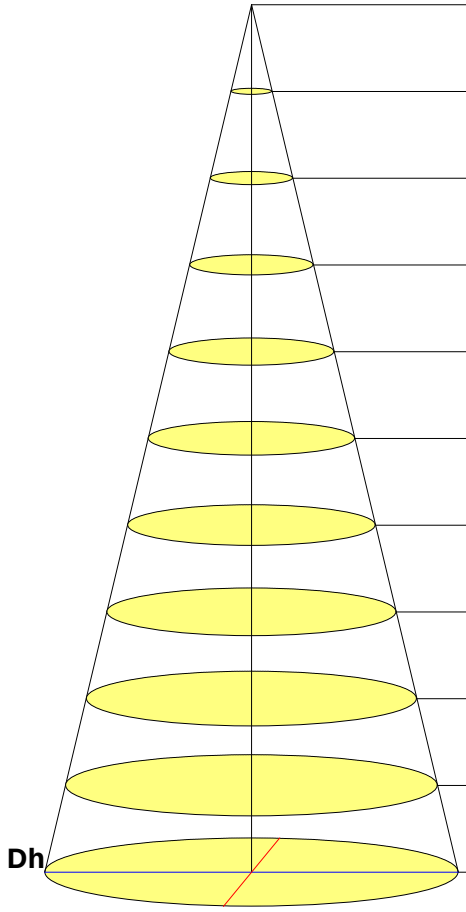


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	8198	7099	5989	4862	3758	2712	1782	1001	398
C90	17143	16759	15631	13123	10676	9283	9017	9910	13544
C180	7506	6383	5250	4119	3059	2080	1253	594	146
C270	17432	15940	12913	10048	8377	7726	7796	8738	11906

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



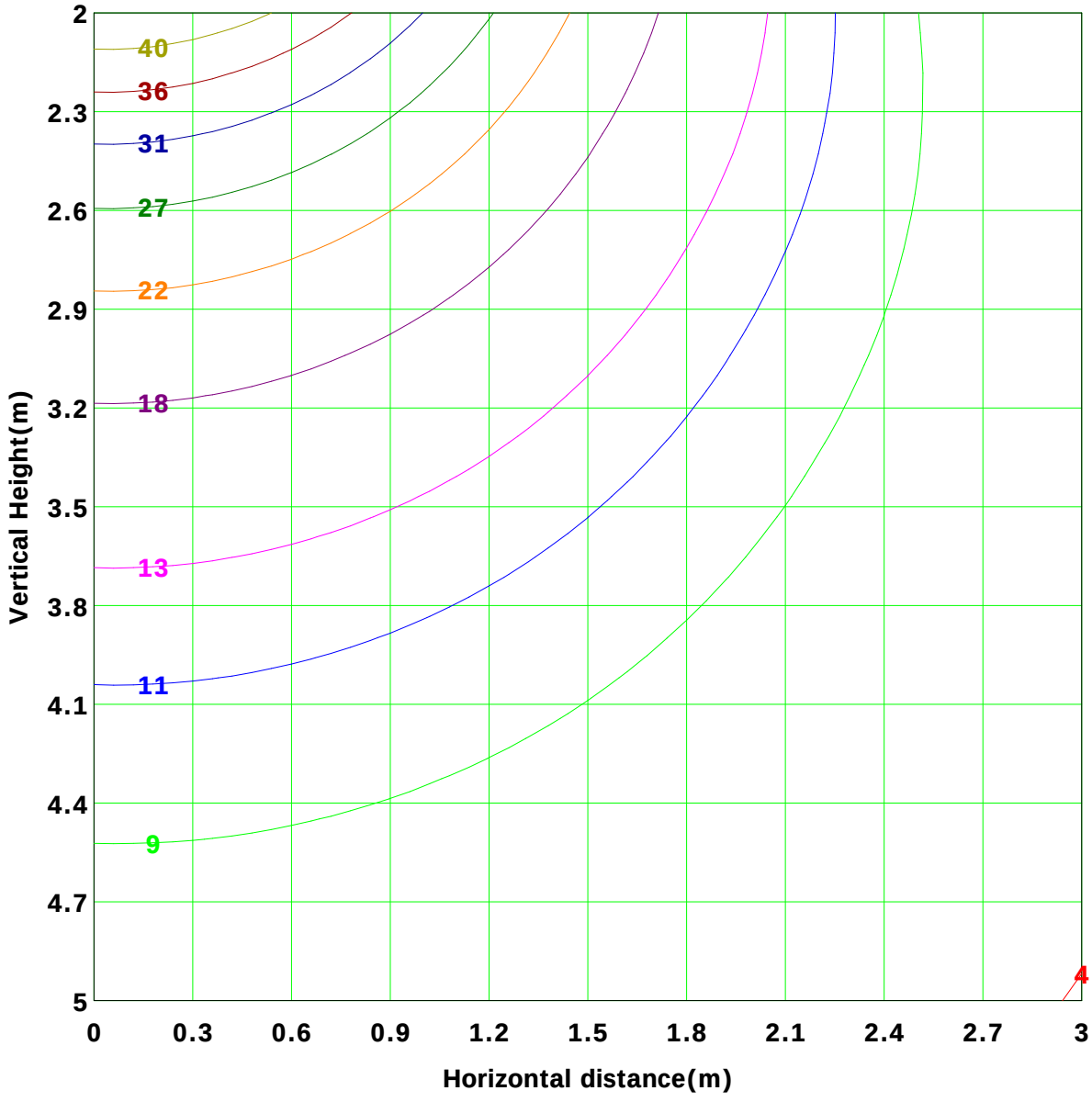
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	177.98	2.44/2.79	5.9	32.16
2.0	44.49	4.87/5.57	23.7	8.04
3.0	19.78	7.31/8.36	53.2	3.57
4.0	11.12	9.75/11.14	94.6	2.01
5.0	7.12	12.19/13.93	147.8	1.29
6.0	4.94	14.62/16.71	212.9	0.89
7.0	3.63	17.06/19.50	289.7	0.66
8.0	2.78	19.50/22.28	378.4	0.50
9.0	2.20	21.93/25.07	478.9	0.40
10.0	1.78	24.37/27.85	591.3	0.32

Beam Angle(B): H101.3 V108.6 Field Angle(F): H149.7 V163.5

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: 44.5 lx

(10%): 4.4 lx	(20%): 8.9 lx
(25%): 11.1 lx	(30%): 13.3 lx
(40%): 17.8 lx	(50%): 22.2 lx
(60%): 26.7 lx	(70%): 31.1 lx
(80%): 35.6 lx	(90%): 40.0 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

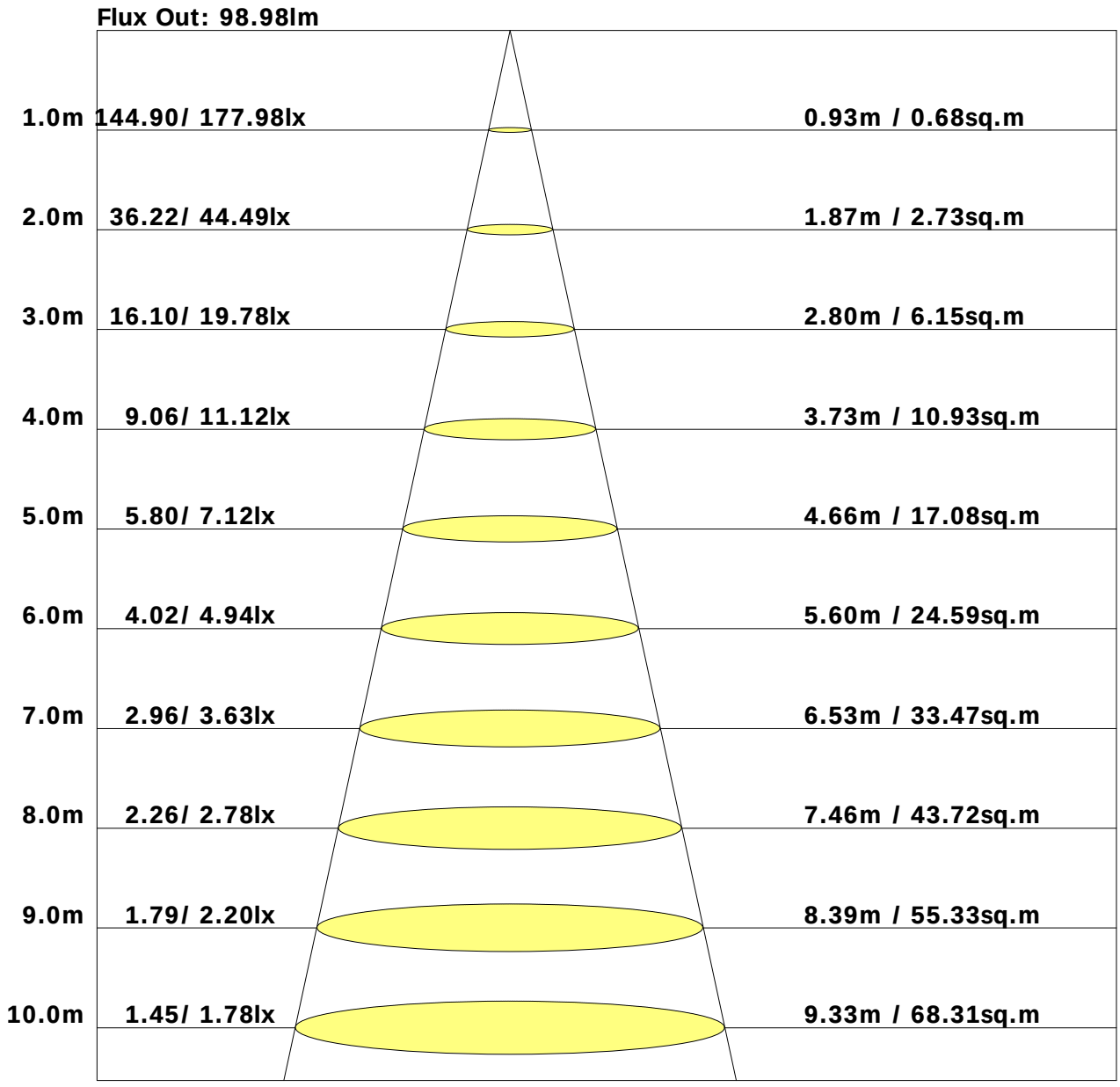
Unit: lm

Vertical plane	Flux(E)	Flux(T)	90	80	70	60	50	40	30	20	10	0	-10	-20	-30	-40	-50	-60	-70	-80	-90
-90	0.0	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	0.0	0.0
-80	0.5	1.6	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
-70	5.2	6.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1
-60	13.3	14.1	0.2	0.3	0.5	0.7	0.9	1.1	1.2	1.3	1.3	1.3	1.2	1.2	1.0	0.8	0.6	0.4	0.2	0.2	0.2
-50	23.5	24.3	0.3	0.5	0.7	1.1	1.5	1.9	2.1	2.2	2.2	2.2	2.2	2.0	1.8	1.4	1.0	0.6	0.4	0.2	0.2
-40	34.4	35.2	0.4	0.6	1.0	1.6	2.3	2.7	3.0	3.2	3.3	3.3	3.2	3.0	2.7	2.1	1.4	0.8	0.5	0.3	0.3
-30	44.6	45.4	0.4	0.7	1.2	2.2	2.9	3.5	3.9	4.1	4.2	4.2	4.1	3.8	3.5	2.9	1.8	1.0	0.6	0.4	0.4
-20	52.2	53.0	0.5	0.8	1.4	2.5	3.4	4.0	4.5	4.8	4.9	4.9	4.8	4.5	4.1	3.4	2.2	1.1	0.7	0.4	0.4
-10	56.2	57.0	0.5	0.8	1.5	2.7	3.7	4.3	4.8	5.1	5.3	5.3	5.2	4.9	4.4	3.7	2.4	1.2	0.7	0.4	0.4
0	56.4	57.1	0.5	0.8	1.5	2.8	3.7	4.4	4.8	5.2	5.4	5.3	5.2	4.9	4.4	3.7	2.4	1.2	0.7	0.4	0.4
10	52.6	53.3	0.5	0.8	1.4	2.6	3.4	4.1	4.5	4.8	5.0	5.0	4.8	4.5	4.1	3.4	2.2	1.1	0.7	0.4	0.4
20	45.0	45.8	0.4	0.7	1.3	2.2	3.0	3.5	3.9	4.2	4.3	4.3	4.1	3.8	3.5	2.9	1.8	1.0	0.6	0.4	0.4
30	34.9	35.7	0.4	0.6	1.0	1.7	2.3	2.7	3.1	3.3	3.4	3.4	3.2	3.0	2.6	2.1	1.4	0.8	0.5	0.3	0.3
40	24.1	24.9	0.3	0.5	0.7	1.1	1.6	1.9	2.1	2.3	2.4	2.4	2.3	2.1	1.8	1.4	0.9	0.6	0.4	0.2	0.2
50	14.1	14.9	0.2	0.3	0.5	0.7	0.9	1.1	1.3	1.4	1.4	1.4	1.3	1.2	1.0	0.8	0.6	0.4	0.2	0.2	0.2
60	6.0	6.8	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.1	0.1	0.1
70	1.1	2.1	0.0	0.1	0.1	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
80	0.0	0.2	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
90	Flux(T)	478	4.9	7.8	13.4	22.7	30.7	36.4	40.6	43.4	44.6	44.4	42.9	40.0	35.9	29.6	19.2	10.6	6.4	4.2	
Horizontal plane	Flux(E)	464	1.0	6.9	13.0	22.5	30.5	36.3	40.5	43.3	44.5	44.2	42.8	39.9	35.8	29.4	18.9	10.1	4.7	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 Lab:
Test Type: TYPE C
Temperature: 25
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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	21.8	23.3	22.3	23.7	24.2	20.9	22.5	21.4	22.9	23.3
3H	23.1	24.5	23.6	24.9	25.4	21.8	23.1	22.2	23.5	24.0
4H	23.6	24.8	24.0	25.3	25.7	22.0	23.3	22.5	23.7	24.2
6H	23.8	25.0	24.3	25.4	25.9	22.3	23.5	22.8	23.9	24.4
8H	23.9	25.0	24.4	25.5	26.0	22.4	23.5	22.9	24.0	24.5
12H	23.9	25.0	24.4	25.4	26.0	22.5	23.6	23.0	24.0	24.6
X=4H Y=2H	22.1	23.4	22.6	23.8	24.3	21.4	22.7	21.9	23.1	23.6
3H	23.6	24.6	24.1	25.1	25.6	22.4	23.5	22.9	24.0	24.5
4H	24.1	25.1	24.6	25.5	26.1	22.8	23.8	23.3	24.3	24.8
6H	24.4	25.3	25.0	25.8	26.4	23.2	24.0	23.7	24.5	25.1
8H	24.5	25.3	25.1	25.9	26.4	23.3	24.1	23.8	24.6	25.2
12H	24.6	25.3	25.1	25.9	26.4	23.5	24.2	24.0	24.7	25.3
X=8H Y=4H	24.2	25.0	24.7	25.5	26.0	23.0	23.8	23.6	24.3	24.9
6H	24.6	25.3	25.2	25.8	26.4	23.5	24.2	24.1	24.7	25.3
8H	24.8	25.4	25.3	25.9	26.5	23.7	24.3	24.3	24.9	25.5
12H	24.9	25.4	25.5	26.0	26.6	24.0	24.5	24.6	25.1	25.7
X=12H Y=4H	24.2	24.9	24.7	25.4	26.0	23.1	23.8	23.6	24.3	24.9
6H	24.6	25.2	25.2	25.8	26.4	23.6	24.2	24.1	24.7	25.3
8H	24.8	25.3	25.4	25.9	26.6	23.8	24.4	24.4	24.9	25.6

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0
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Test Type: TYPE C
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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	0.57	0.68	0.75	0.80	0.87	0.92	0.95	0.99	1.02
	0.30		0.50	0.60	0.68	0.73	0.81	0.86	0.90	0.95	0.99
	0.20		0.44	0.55	0.62	0.68	0.76	0.82	0.86	0.92	0.95
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.83	0.88	0.91	0.95	0.97
	0.30		0.49	0.59	0.66	0.71	0.78	0.83	0.87	0.91	0.94
	0.20		0.44	0.54	0.61	0.66	0.74	0.79	0.83	0.88	0.92
0.30	0.50	0.20	0.53	0.63	0.69	0.74	0.80	0.84	0.86	0.90	0.93
	0.30		0.47	0.57	0.64	0.69	0.75	0.80	0.83	0.87	0.90
	0.20		0.43	0.53	0.60	0.65	0.72	0.77	0.80	0.85	0.88
0.00	0.00	0.00	0.40	0.50	0.56	0.61	0.68	0.72	0.75	0.80	0.82

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
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Operator: Nick

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

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	0.97	0.79	0.67	0.59	0.47	0.39	0.33	0.26	0.21
	0.30		0.81	0.68	0.59	0.52	0.42	0.36	0.31	0.25	0.20
	0.20		0.69	0.59	0.52	0.47	0.39	0.33	0.29	0.23	0.19
0.50	0.50	0.20	0.92	0.75	0.64	0.56	0.44	0.40	0.32	0.25	0.20
	0.30		0.78	0.65	0.56	0.50	0.40	0.34	0.30	0.23	0.19
	0.20		0.68	0.58	0.51	0.45	0.37	0.32	0.28	0.22	0.19
0.30	0.50	0.20	0.89	0.72	0.61	0.53	0.42	0.35	0.30	0.23	0.19
	0.30		0.76	0.63	0.54	0.48	0.39	0.33	0.28	0.22	0.18
	0.20		0.66	0.56	0.49	0.44	0.36	0.30	0.27	0.21	0.18
0.00	0.00	0.00	0.55	0.46	0.39	0.35	0.28	0.24	0.20	0.16	0.13

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 = 1.25								
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	0.20	0.21	0.22	0.23	0.24	0.24	0.25	0.25	0.26
	0.30		0.14	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.23
	0.20		0.09	0.10	0.12	0.13	0.15	0.17	0.18	0.20	0.21
0.50	0.50	0.20	0.20	0.21	0.21	0.22	0.23	0.23	0.24	0.24	0.25
	0.30		0.13	0.15	0.16	0.17	0.19	0.20	0.20	0.22	0.22
	0.20		0.09	0.10	0.12	0.13	0.15	0.16	0.18	0.19	0.20
0.30	0.50	0.20	0.19	0.20	0.21	0.21	0.22	0.23	0.23	0.23	0.24
	0.30		0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22
	0.20		0.09	0.10	0.12	0.13	0.15	0.16	0.17	0.19	0.20
0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04

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	177.5	0.2	0.2	0.03	0.03
1.0-2.0	177.5	0.5	0.7	0.10	0.14
2.0-3.0	177.4	0.8	1.5	0.17	0.31
3.0-4.0	177.2	1.2	2.7	0.24	0.54
4.0-5.0	177.0	1.5	4.2	0.31	0.85
5.0-6.0	176.7	1.9	6.1	0.37	1.22
6.0-7.0	176.4	2.2	8.3	0.44	1.66
7.0-8.0	176.0	2.5	10.8	0.50	2.16
8.0-9.0	175.5	2.8	13.6	0.57	2.73
9.0-10.0	175.0	3.2	16.8	0.63	3.37
10.0-11.0	174.4	3.5	20.3	0.70	4.07
11.0-12.0	173.7	3.8	24.1	0.76	4.83
12.0-13.0	173.0	4.1	28.2	0.82	5.65
13.0-14.0	172.2	4.4	32.6	0.88	6.53
14.0-15.0	171.3	4.7	37.3	0.94	7.48
15.0-16.0	170.4	5.0	42.3	1.00	8.48
16.0-17.0	169.4	5.3	47.6	1.06	9.53
17.0-18.0	168.3	5.5	53.1	1.11	10.64
18.0-19.0	167.2	5.8	58.9	1.17	11.81
19.0-20.0	166.0	6.1	65.0	1.22	13.03
20.0-21.0	164.7	6.3	71.3	1.27	14.29
21.0-22.0	163.4	6.6	77.9	1.32	15.61
22.0-23.0	162.1	6.8	84.7	1.36	16.97
23.0-24.0	160.6	7.0	91.7	1.41	18.38
24.0-25.0	159.1	7.2	99.0	1.45	19.83
25.0-26.0	157.6	7.4	106.4	1.49	21.32
26.0-27.0	156.0	7.6	114.1	1.53	22.85
27.0-28.0	154.4	7.8	121.9	1.57	24.42
28.0-29.0	152.7	8.0	129.9	1.60	26.02
29.0-30.0	150.9	8.1	138.0	1.63	27.65
30.0-31.0	149.1	8.3	146.3	1.66	29.31
31.0-32.0	147.3	8.4	154.8	1.69	31.00
32.0-33.0	145.4	8.6	163.3	1.72	32.72
33.0-34.0	143.4	8.7	172.0	1.74	34.46
34.0-35.0	141.3	8.8	180.8	1.76	36.21
35.0-36.0	139.3	8.9	189.6	1.78	37.99

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	137.1	8.9	198.6	1.79	39.78
37.0-38.0	134.9	9.0	207.6	1.80	41.59
38.0-39.0	132.7	9.1	216.6	1.81	43.40
39.0-40.0	130.4	9.1	225.7	1.82	45.22
40.0-41.0	128.0	9.1	234.9	1.83	47.05
41.0-42.0	125.6	9.1	244.0	1.83	48.88
42.0-43.0	123.2	9.1	253.1	1.83	50.71
43.0-44.0	120.6	9.1	262.2	1.82	52.53
44.0-45.0	118.0	9.1	271.3	1.82	54.35
45.0-46.0	115.4	9.0	280.3	1.81	56.16
46.0-47.0	112.6	9.0	289.3	1.79	57.95
47.0-48.0	109.7	8.9	298.1	1.78	59.73
48.0-49.0	106.8	8.8	306.9	1.76	61.48
49.0-50.0	103.7	8.6	315.6	1.73	63.22
50.0-51.0	100.4	8.5	324.1	1.70	64.92
51.0-52.0	97.1	8.3	332.4	1.67	66.59
52.0-53.0	93.6	8.1	340.5	1.63	68.22
53.0-54.0	90.0	7.9	348.5	1.59	69.81
54.0-55.0	86.3	7.7	356.2	1.54	71.35
55.0-56.0	82.5	7.5	363.6	1.49	72.85
56.0-57.0	78.7	7.2	370.8	1.44	74.29
57.0-58.0	74.8	6.9	377.7	1.39	75.67
58.0-59.0	70.9	6.6	384.4	1.33	77.00
59.0-60.0	67.0	6.3	390.7	1.27	78.27
60.0-61.0	63.2	6.0	396.7	1.21	79.48
61.0-62.0	59.6	5.7	402.5	1.15	80.63
62.0-63.0	56.1	5.5	407.9	1.09	81.72
63.0-64.0	52.6	5.2	413.1	1.03	82.76
64.0-65.0	49.3	4.9	418.0	0.98	83.74
65.0-66.0	46.2	4.6	422.6	0.92	84.66
66.0-67.0	43.2	4.3	426.9	0.87	85.53
67.0-68.0	40.4	4.1	431.0	0.82	86.35
68.0-69.0	37.7	3.8	434.9	0.77	87.12
69.0-70.0	35.2	3.6	438.5	0.72	87.84
70.0-71.0	32.9	3.4	441.9	0.68	88.52
71.0-72.0	30.7	3.2	445.1	0.64	89.16

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	28.6	3.0	448.1	0.60	89.76
73.0-74.0	26.7	2.8	450.9	0.56	90.32
74.0-75.0	24.9	2.6	453.5	0.53	90.85
75.0-76.0	23.2	2.5	456.0	0.49	91.34
76.0-77.0	21.6	2.3	458.3	0.46	91.81
77.0-78.0	20.1	2.2	460.4	0.43	92.24
78.0-79.0	18.8	2.0	462.4	0.40	92.64
79.0-80.0	17.5	1.9	464.3	0.38	93.02
80.0-81.0	16.3	1.8	466.1	0.35	93.37
81.0-82.0	15.2	1.6	467.7	0.33	93.70
82.0-83.0	14.2	1.5	469.3	0.31	94.01
83.0-84.0	13.2	1.4	470.7	0.29	94.30
84.0-85.0	12.4	1.3	472.1	0.27	94.57
85.0-86.0	11.6	1.3	473.3	0.25	94.82
86.0-87.0	10.8	1.2	474.5	0.24	95.06
87.0-88.0	10.1	1.1	475.6	0.22	95.28
88.0-89.0	9.5	1.0	476.7	0.21	95.49
89.0-90.0	9.0	1.0	477.7	0.20	95.69
90.0-91.0	8.5	0.9	478.6	0.19	95.88
91.0-92.0	8.1	0.9	479.5	0.18	96.06
92.0-93.0	7.7	0.8	480.3	0.17	96.22
93.0-94.0	7.3	0.8	481.1	0.16	96.38
94.0-95.0	7.0	0.8	481.9	0.15	96.54
95.0-96.0	6.7	0.7	482.6	0.15	96.68
96.0-97.0	6.4	0.7	483.3	0.14	96.82
97.0-98.0	6.1	0.7	484.0	0.13	96.96
98.0-99.0	5.9	0.6	484.6	0.13	97.09
99.0-100.0	5.7	0.6	485.2	0.12	97.21
100.0-101.0	5.4	0.6	485.8	0.12	97.33
101.0-102.0	5.2	0.6	486.4	0.11	97.44
102.0-103.0	5.0	0.5	486.9	0.11	97.55
103.0-104.0	4.8	0.5	487.4	0.10	97.65
104.0-105.0	4.6	0.5	487.9	0.10	97.75
105.0-106.0	4.5	0.5	488.4	0.09	97.84
106.0-107.0	4.3	0.5	488.8	0.09	97.93
107.0-108.0	4.1	0.4	489.3	0.09	98.02

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	4.0	0.4	489.7	0.08	98.10
109.0-110.0	3.8	0.4	490.1	0.08	98.18
110.0-111.0	3.7	0.4	490.5	0.08	98.26
111.0-112.0	3.6	0.4	490.8	0.07	98.33
112.0-113.0	3.5	0.4	491.2	0.07	98.40
113.0-114.0	3.4	0.3	491.5	0.07	98.47
114.0-115.0	3.2	0.3	491.8	0.06	98.53
115.0-116.0	3.1	0.3	492.2	0.06	98.60
116.0-117.0	3.1	0.3	492.5	0.06	98.66
117.0-118.0	3.0	0.3	492.8	0.06	98.71
118.0-119.0	2.9	0.3	493.0	0.06	98.77
119.0-120.0	2.8	0.3	493.3	0.05	98.82
120.0-121.0	2.7	0.3	493.6	0.05	98.88
121.0-122.0	2.7	0.2	493.8	0.05	98.93
122.0-123.0	2.6	0.2	494.0	0.05	98.97
123.0-124.0	2.5	0.2	494.3	0.05	99.02
124.0-125.0	2.4	0.2	494.5	0.04	99.06
125.0-126.0	2.4	0.2	494.7	0.04	99.11
126.0-127.0	2.3	0.2	494.9	0.04	99.15
127.0-128.0	2.3	0.2	495.1	0.04	99.19
128.0-129.0	2.2	0.2	495.3	0.04	99.23
129.0-130.0	2.1	0.2	495.5	0.04	99.26
130.0-131.0	2.1	0.2	495.7	0.03	99.30
131.0-132.0	2.0	0.2	495.8	0.03	99.33
132.0-133.0	2.0	0.2	496.0	0.03	99.36
133.0-134.0	2.0	0.2	496.1	0.03	99.40
134.0-135.0	1.9	0.1	496.3	0.03	99.43
135.0-136.0	1.9	0.1	496.4	0.03	99.45
136.0-137.0	1.8	0.1	496.6	0.03	99.48
137.0-138.0	1.8	0.1	496.7	0.03	99.51
138.0-139.0	1.8	0.1	496.8	0.03	99.53
139.0-140.0	1.7	0.1	497.0	0.02	99.56
140.0-141.0	1.7	0.1	497.1	0.02	99.58
141.0-142.0	1.6	0.1	497.2	0.02	99.60
142.0-143.0	1.6	0.1	497.3	0.02	99.63
143.0-144.0	1.6	0.1	497.4	0.02	99.65

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 4)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	1.6	0.1	497.5	0.02	99.67
145.0-146.0	1.6	0.1	497.6	0.02	99.69
146.0-147.0	1.5	0.1	497.7	0.02	99.71
147.0-148.0	1.5	0.1	497.8	0.02	99.72
148.0-149.0	1.5	0.1	497.9	0.02	99.74
149.0-150.0	1.5	0.1	498.0	0.02	99.76
150.0-151.0	1.5	0.1	498.0	0.02	99.77
151.0-152.0	1.4	0.1	498.1	0.02	99.79
152.0-153.0	1.4	0.1	498.2	0.01	99.80
153.0-154.0	1.4	0.1	498.3	0.01	99.82
154.0-155.0	1.4	0.1	498.3	0.01	99.83
155.0-156.0	1.4	0.1	498.4	0.01	99.84
156.0-157.0	1.4	0.1	498.4	0.01	99.86
157.0-158.0	1.4	0.1	498.5	0.01	99.87
158.0-159.0	1.4	0.1	498.6	0.01	99.88
159.0-160.0	1.4	0.1	498.6	0.01	99.89
160.0-161.0	1.4	0.1	498.7	0.01	99.90
161.0-162.0	1.4	0.0	498.7	0.01	99.91
162.0-163.0	1.4	0.0	498.8	0.01	99.92
163.0-164.0	1.4	0.0	498.8	0.01	99.93
164.0-165.0	1.4	0.0	498.9	0.01	99.94
165.0-166.0	1.5	0.0	498.9	0.01	99.94
166.0-167.0	1.5	0.0	498.9	0.01	99.95
167.0-168.0	1.5	0.0	499.0	0.01	99.96
168.0-169.0	1.5	0.0	499.0	0.01	99.97
169.0-170.0	1.5	0.0	499.0	0.01	99.97
170.0-171.0	1.5	0.0	499.1	0.01	99.98
171.0-172.0	1.5	0.0	499.1	0.00	99.98
172.0-173.0	1.5	0.0	499.1	0.00	99.99
173.0-174.0	1.5	0.0	499.1	0.00	99.99
174.0-175.0	1.5	0.0	499.1	0.00	99.99
175.0-176.0	1.5	0.0	499.1	0.00	100.00
176.0-177.0	1.5	0.0	499.2	0.00	100.00
177.0-178.0	1.5	0.0	499.2	0.00	100.00
178.0-179.0	1.5	0.0	499.2	0.00	100.00
179.0-180.0	1.5	0.0	499.2	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: