

Report No.: 1810300914

Test Time: 2018-10-30 09:15

## Luminaire Property

Luminaire Manufacturer:

Number of Lamps: 1

Luminous Width (mm): 26

Voltage: 220.3 V

Power: 18.38 W

Luminous Length (mm): 1500

Luminous Height (mm): 32

Current: 0.085 A

Power Factor: 0.977

## Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 2256.2 lm

Downward Ratio: 90%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.4, 237.7, 206.7, 206.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.0, 132.8, 118.1, 117.9

Luminaire Efficacy Rating (LER): 122.80

Max. Intensity: 278.02 cd/klm

S/MH(C0/C180): 1.22

Total Rated Lamp Lumens: 2256.2 lm

Efficiency: 100%

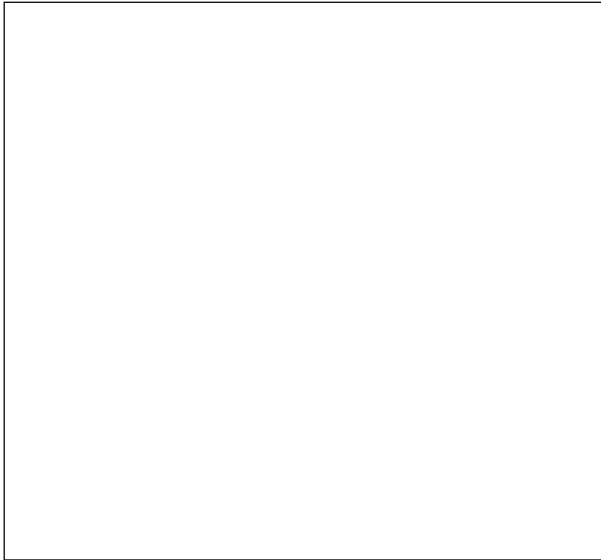
Upward Ratio: 10%

Central Intensity: 277.85 cd/klm

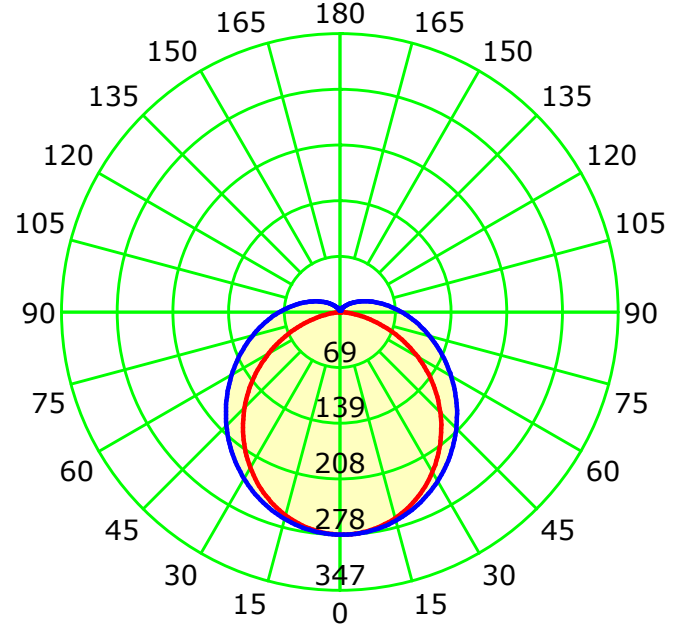
Pos of Max. Intensity: H90 V0

S/MH(C90/C270): 1.30

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd/klm

Average Diffuse Angle(50%): 119.4°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

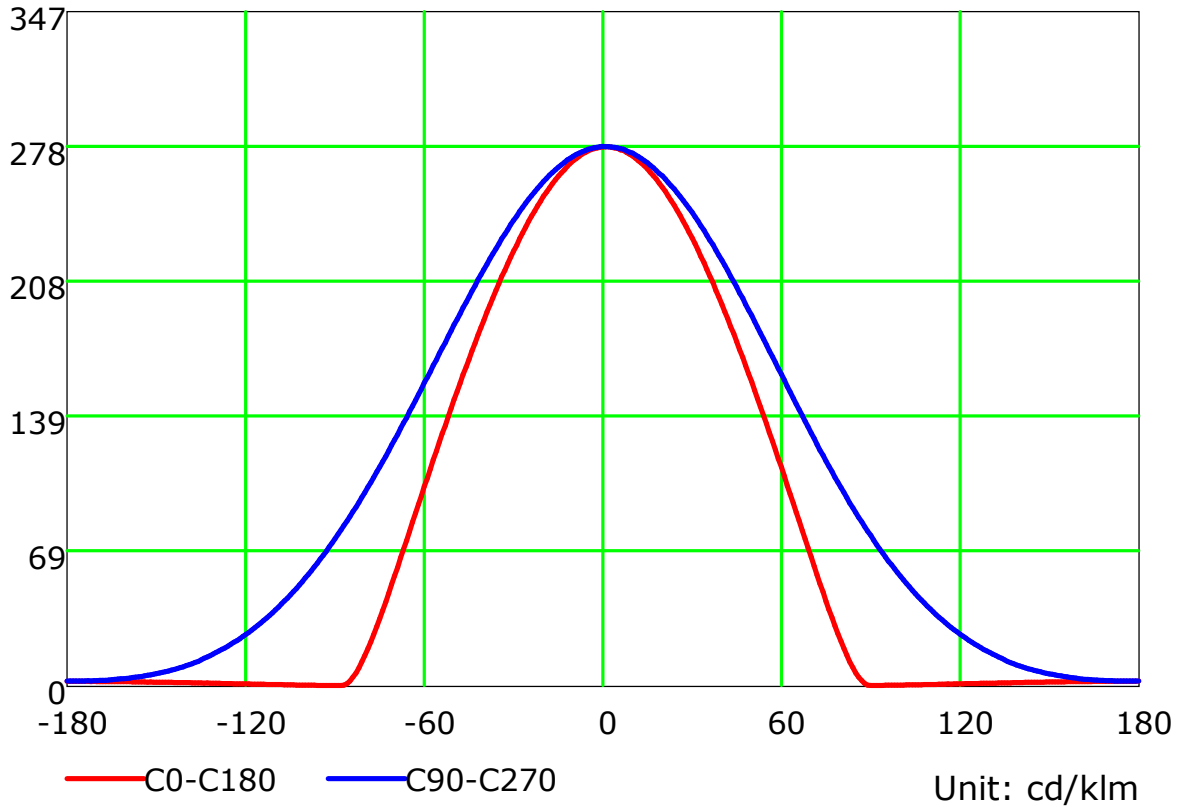
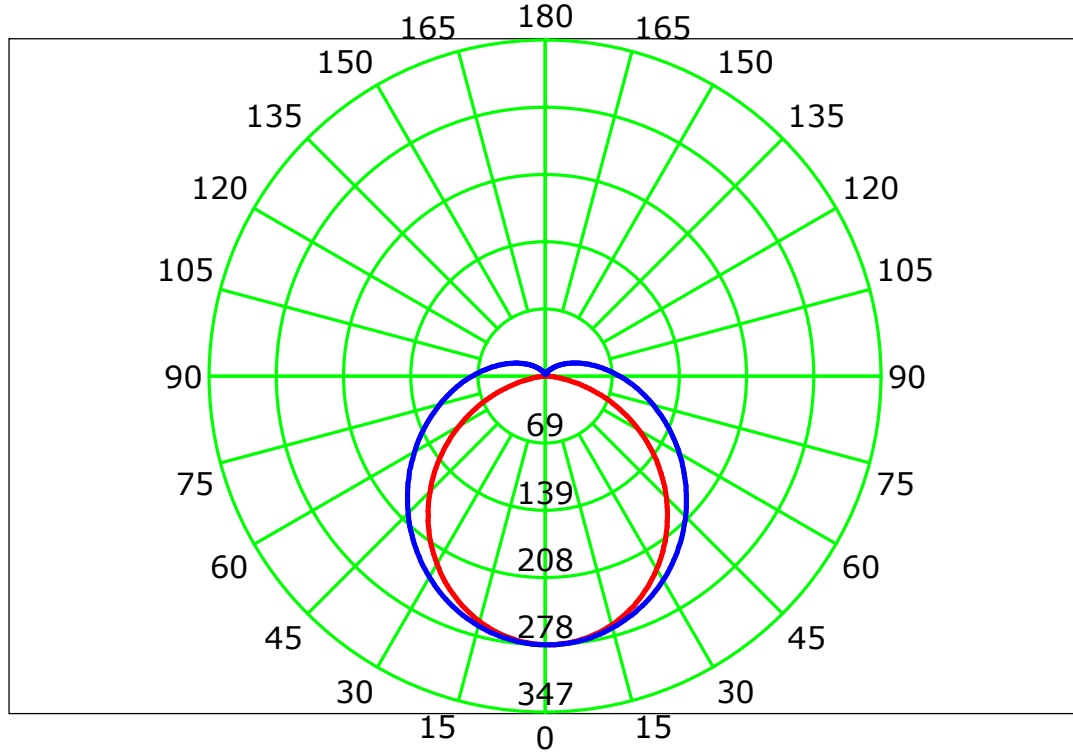
Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

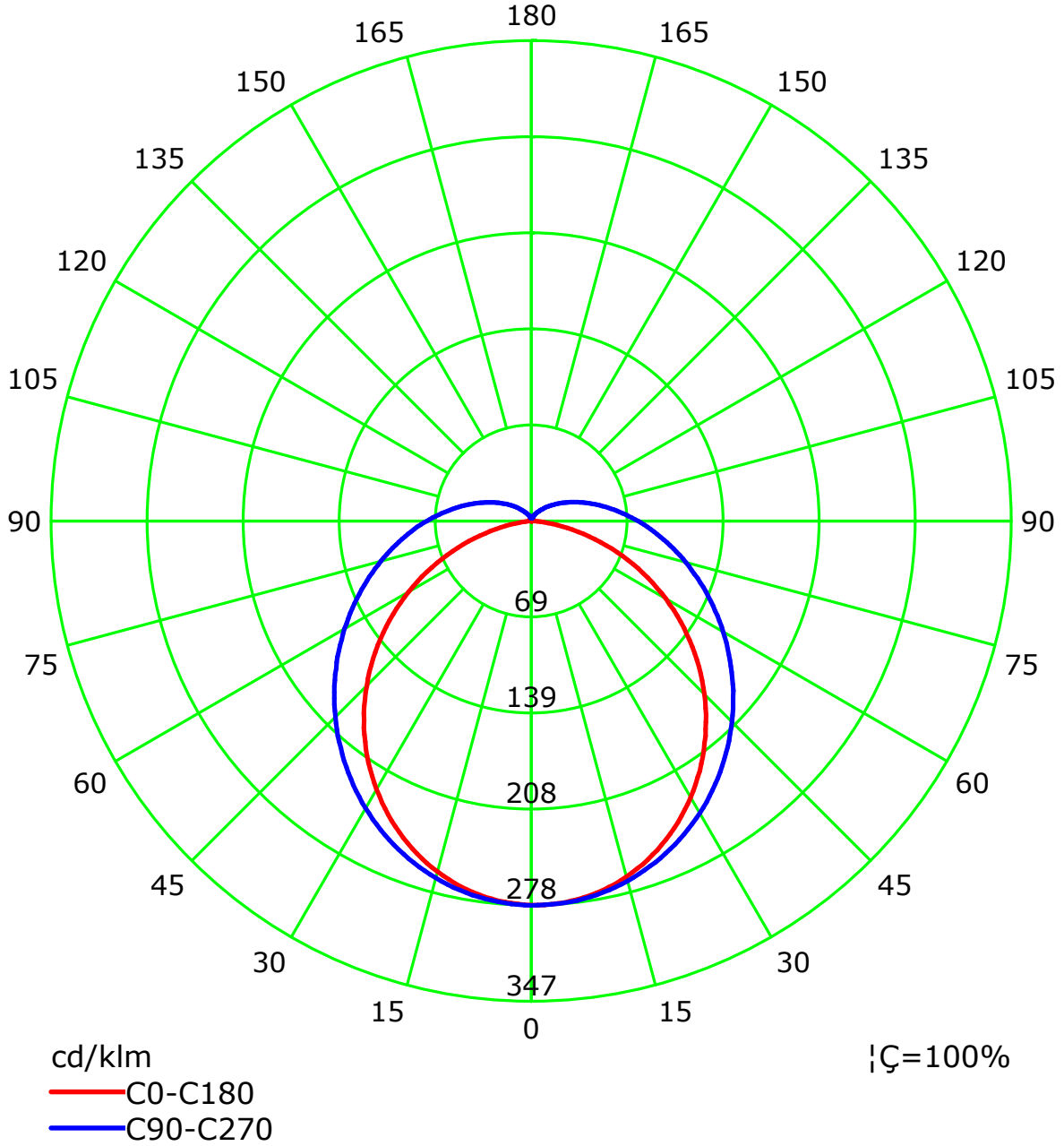
Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

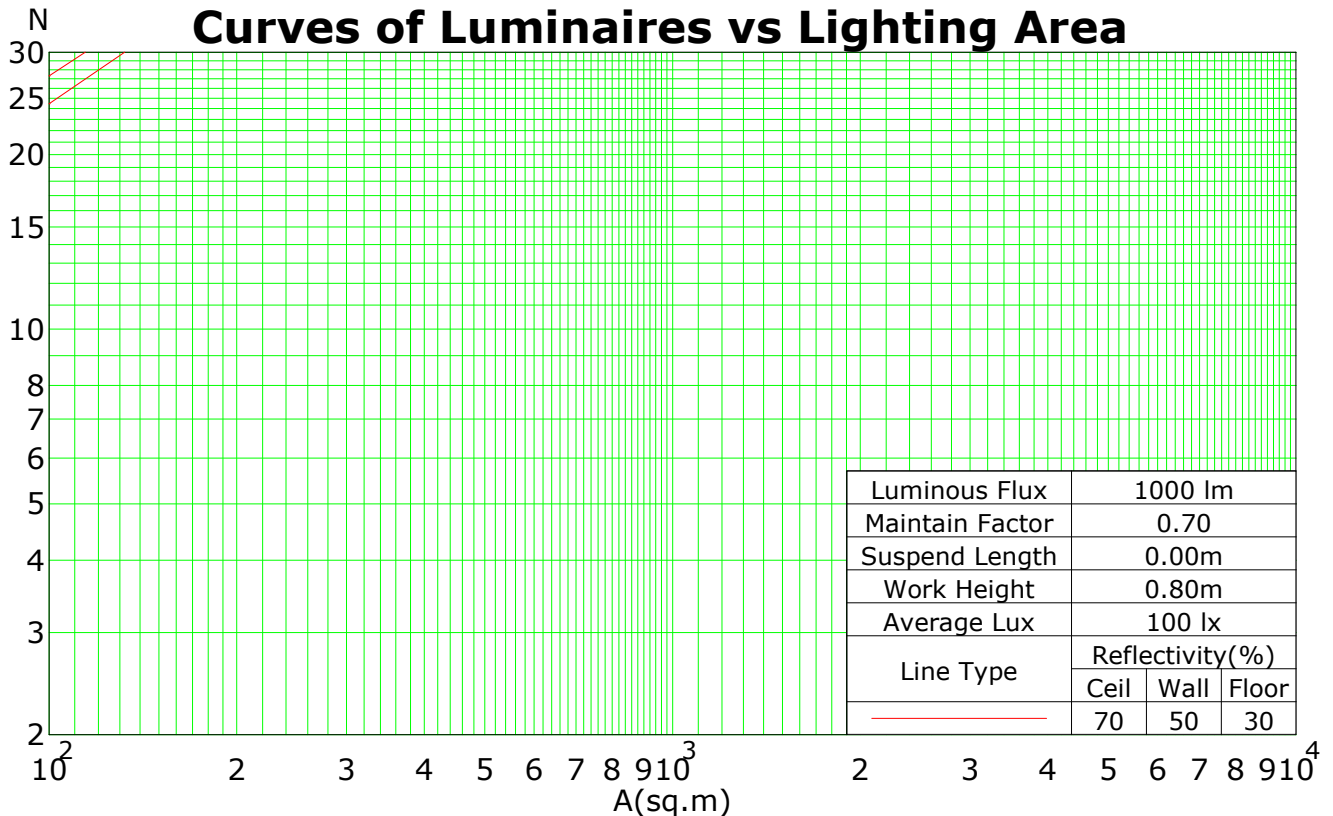
## Coefficients Of Utilization - Zonal Cavity Method

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	104	99	94	89	100	95	91	87	89	85	82	83	80	78	78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66	72	67	63	67	64	60	57
3	85	74	65	58	82	72	64	57	67	60	55	63	57	53	59	54	50	48
4	78	65	56	49	75	63	55	48	59	52	46	56	50	45	53	47	43	40
5	72	58	49	42	69	56	48	41	53	46	40	50	44	38	47	42	37	35
6	66	52	43	36	63	51	42	36	48	40	35	45	39	34	43	37	32	30
7	61	47	38	32	59	46	37	31	43	36	31	41	35	30	39	33	29	27
8	57	43	34	28	55	42	34	28	40	32	27	38	31	26	36	30	26	24
9	53	39	31	25	51	38	31	25	37	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	22	31	25	21	19

Spacing Criteria (0-180): 1.22

Spacing Criteria (90-270): 1.30

Spacing Criteria (Diagonal): 1.38



C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

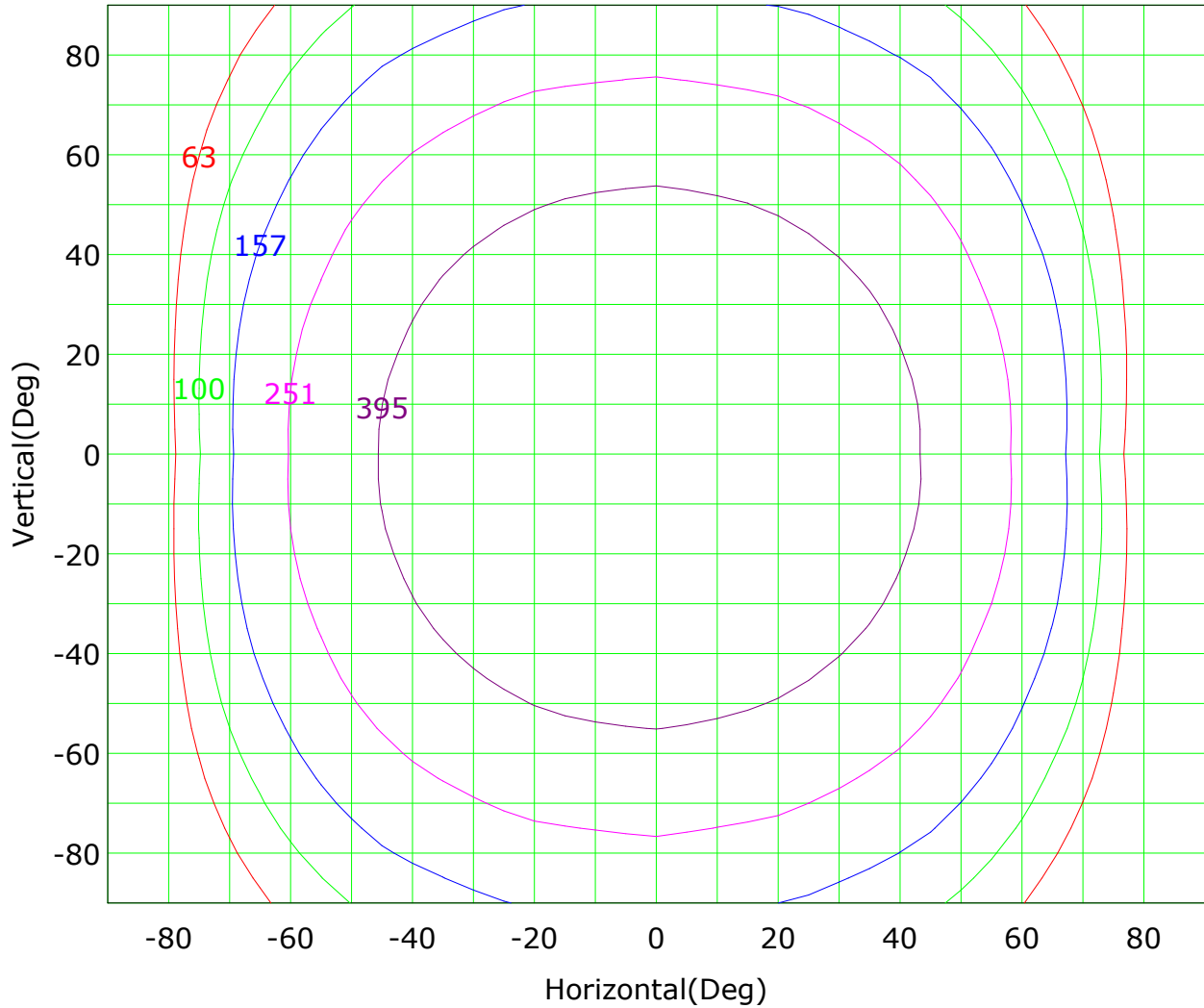
Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

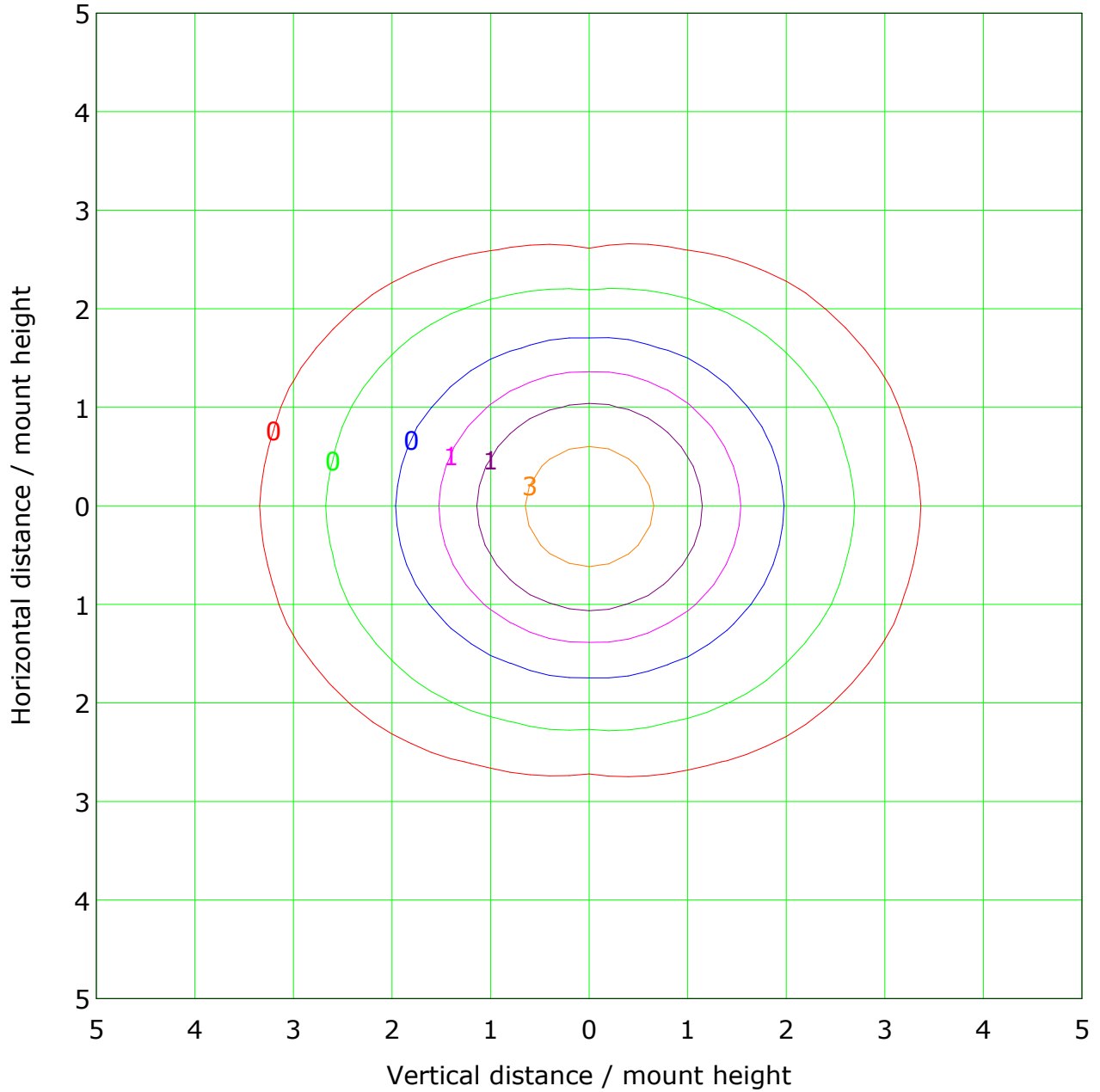
## Isocandela (rectangle)



Imax (100%): 627 cd

( 10%):	63 cd	( 16%):	100 cd
( 25%):	157 cd	( 40%):	251 cd
( 63%):	395 cd	(100%):	627 cd

## IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 6.3 lx

( 1%): 0.1 lx	( 2%): 0.1 lx
( 5%): 0.3 lx	( 10%): 0.6 lx
( 20%): 1.3 lx	( 50%): 3.1 lx
(100%): 6.3 lx	

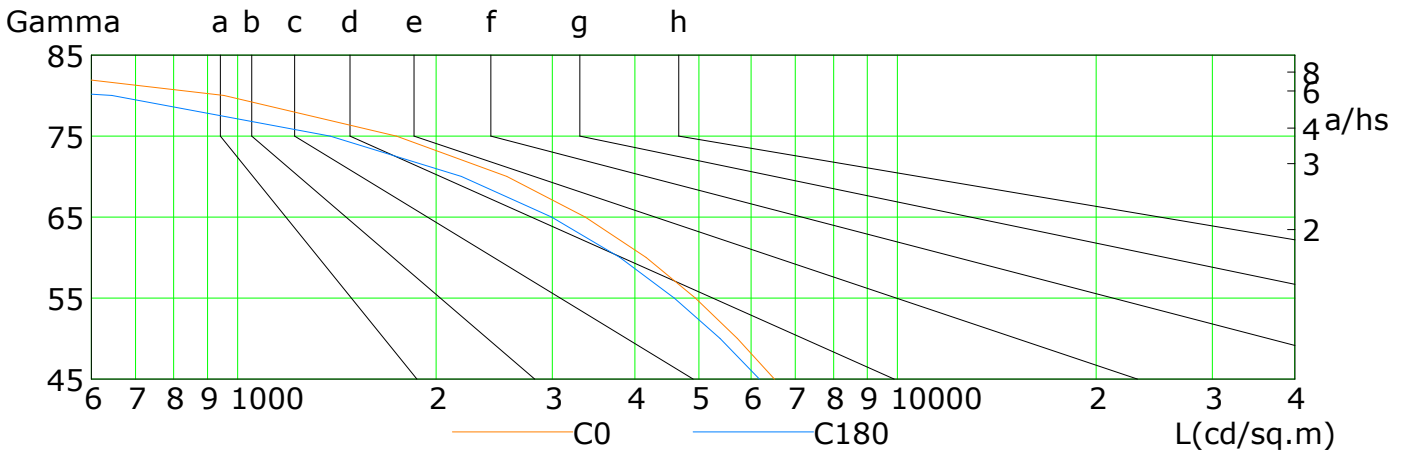
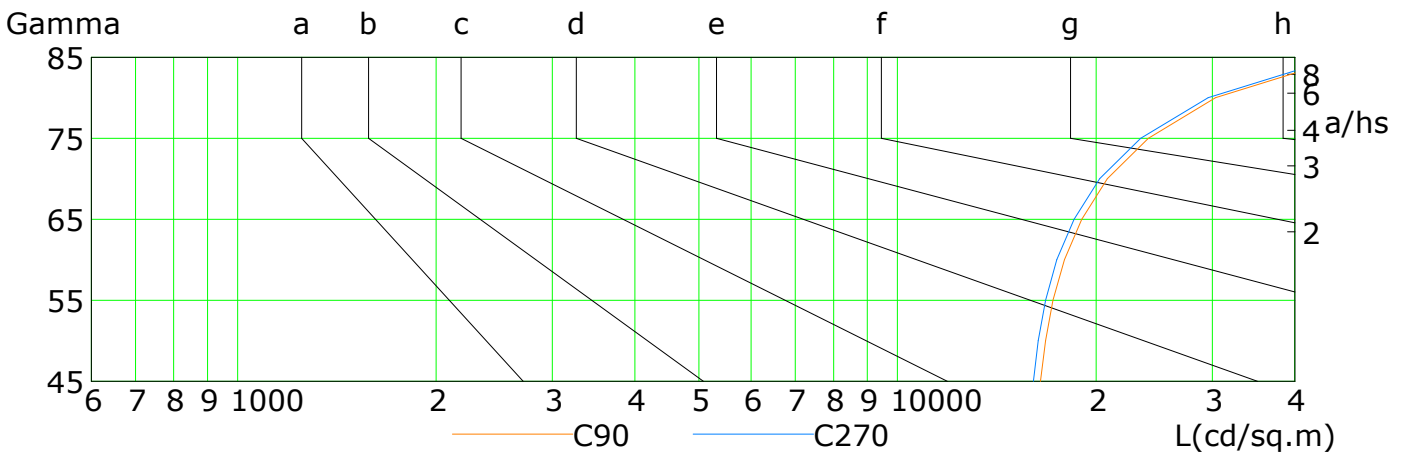
C Plane (°):0.0-360.0: 22.5  
 Test Lab: KARMA  
 Test Type: TYPE C  
 Temperature: 19  
 Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: LSG-1700B  
 Distance: 8.942 m  
 Humidity:  
 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	6508	5720	4941	4161	3364	2559	1740	953	287
C90	16473	16759	17197	17909	19016	20802	23994	30331	47591
C180	6174	5385	4591	3797	2993	2183	1380	644	105
C270	16067	16337	16768	17437	18509	20241	23359	29573	46519

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

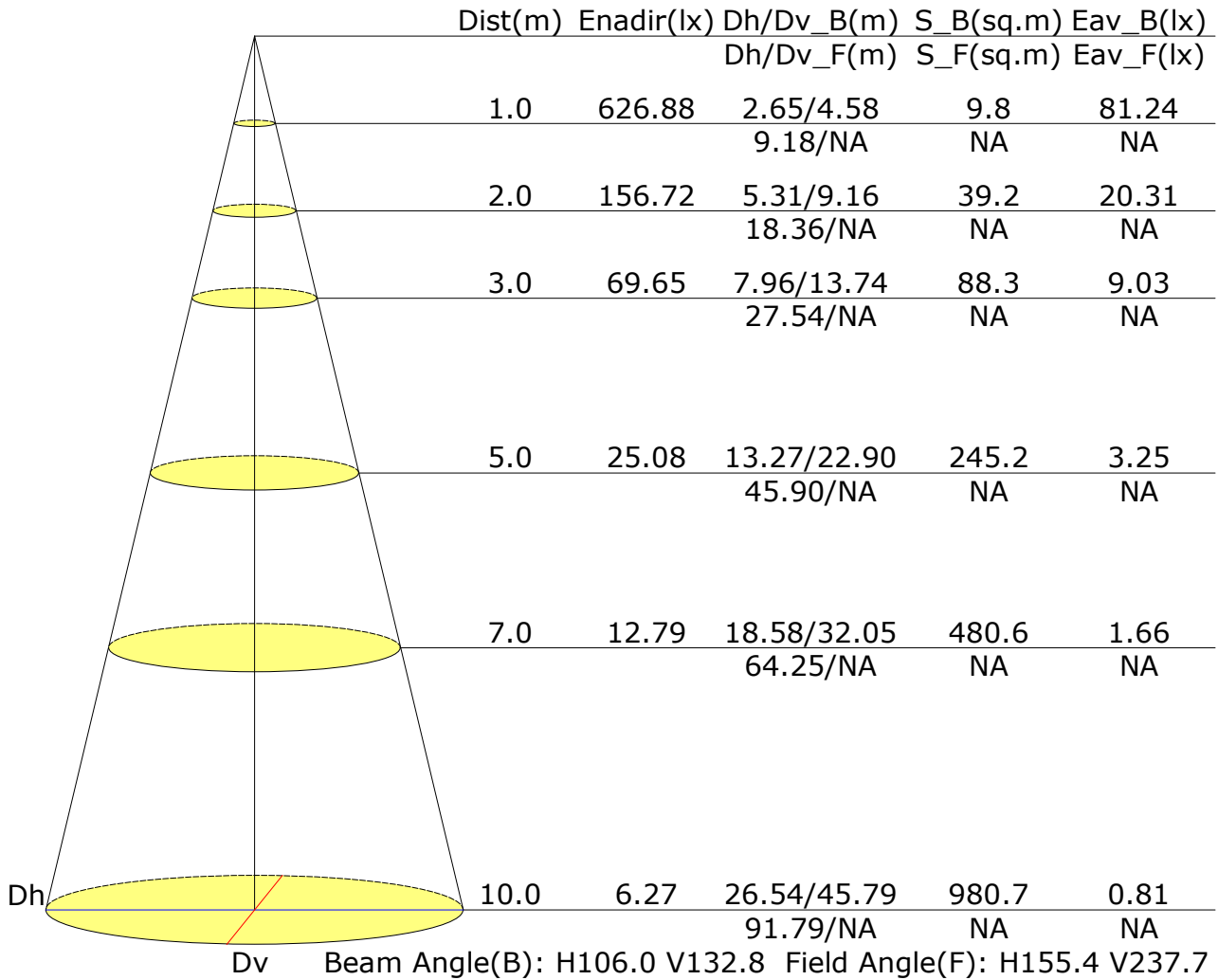
Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

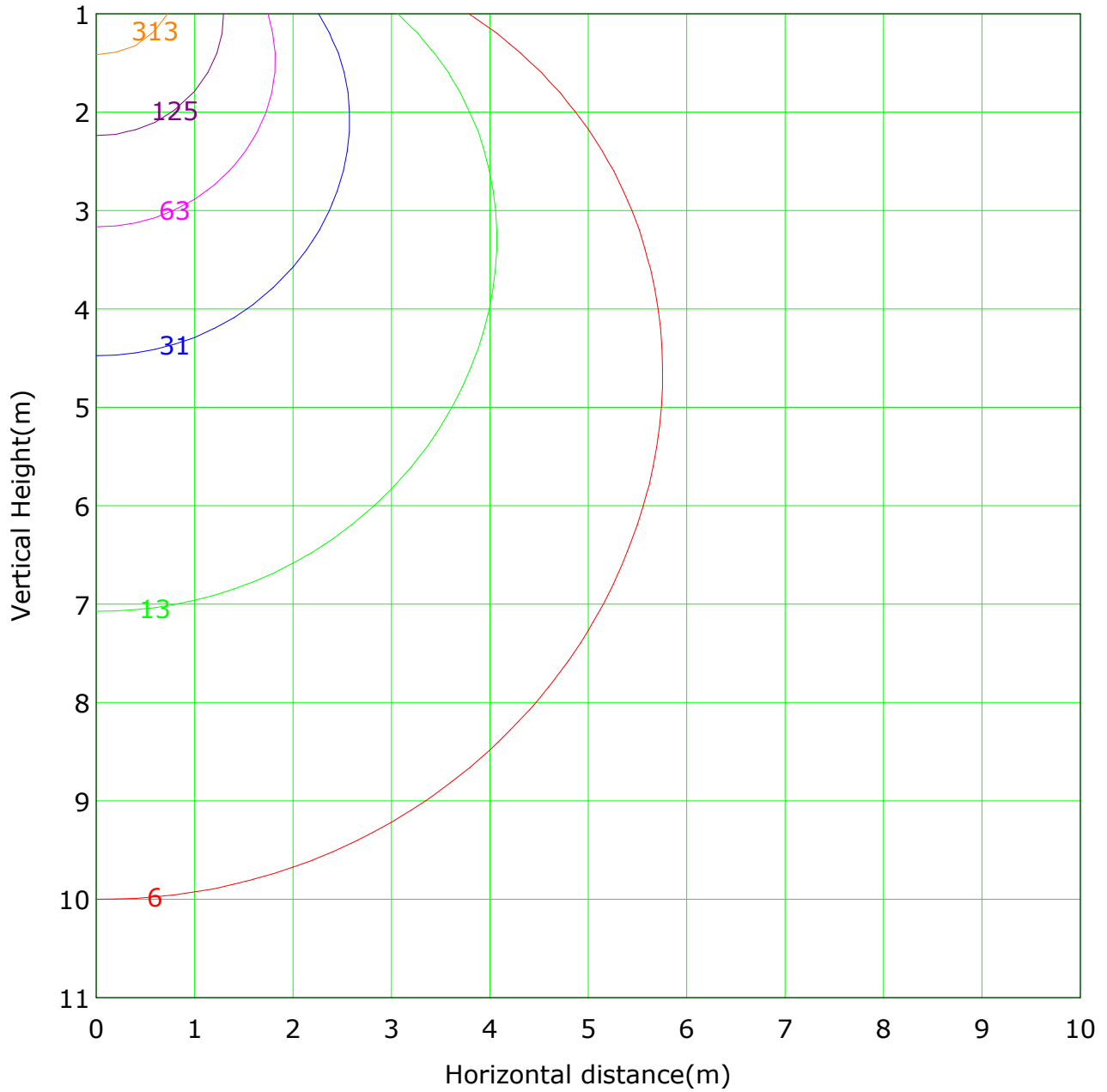
Inspector:

## Illuminance at a Distance





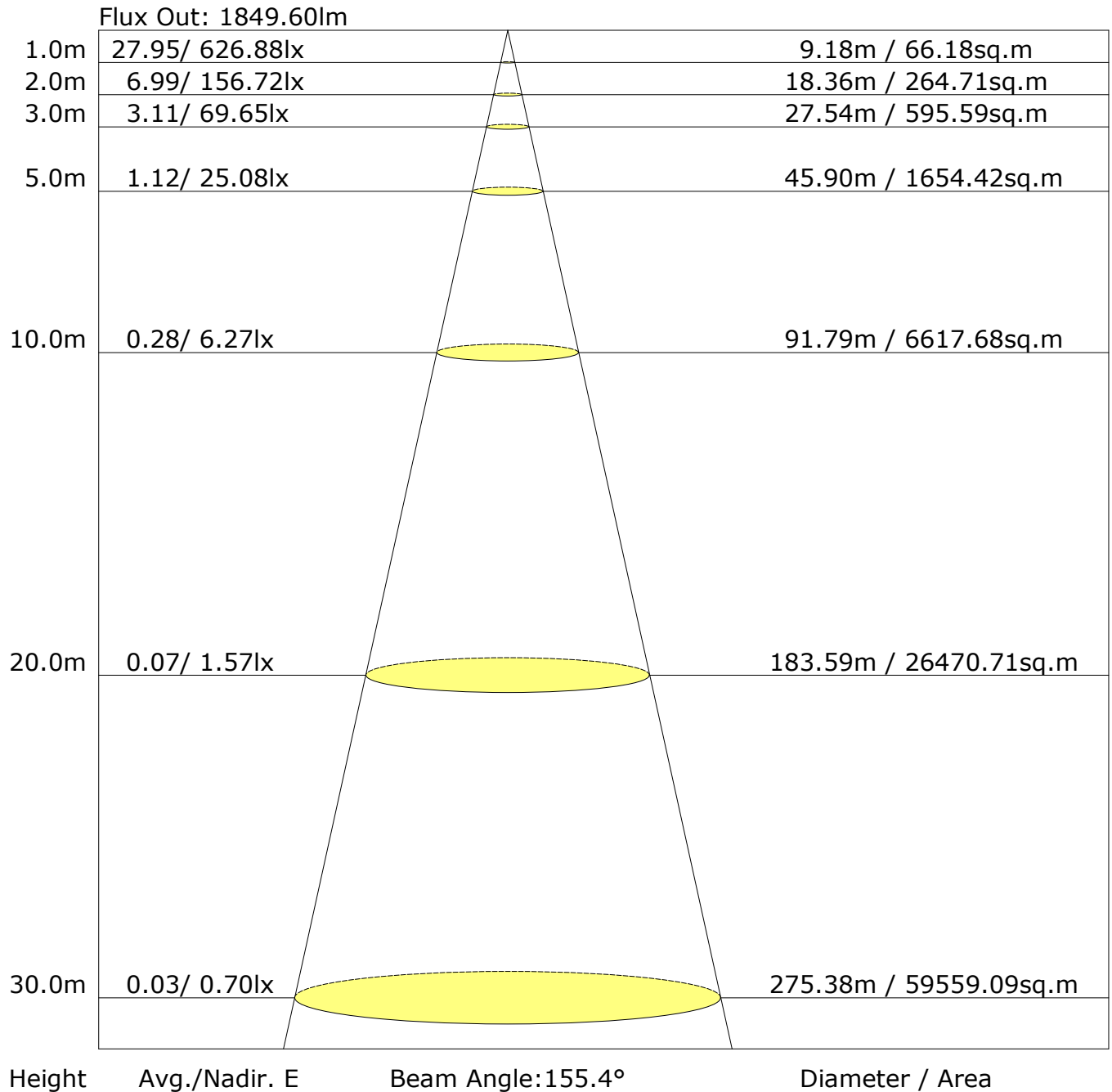
## Vertical IsoLux Plot



Lowest(m): 1.0m    Highest(m): 11.0m    Max Lux: 626.9 lx

— ( 1%): 6.3 lx	— ( 2%): 12.5 lx
— ( 5%): 31.3 lx	— ( 10%): 62.7 lx
— ( 20%): 125.4 lx	— ( 50%): 313.4 lx
— (100%): 626.9 lx	

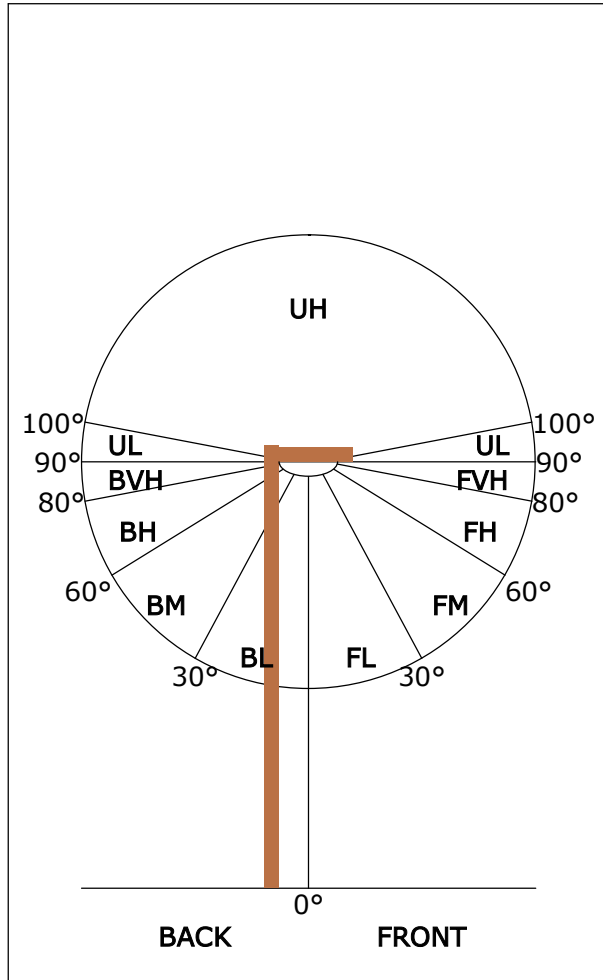
## The Average Illuminance Effective Figure



## 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	17.4	18.7	17.9	19.2	19.6	20.7	22.0	21.1	22.4	22.9
3H	18.4	19.6	18.9	20.0	20.5	23.0	24.2	23.5	24.7	25.2
4H	18.7	19.8	19.2	20.3	20.8	24.3	25.4	24.8	25.9	26.4
6H	18.8	19.9	19.3	20.4	20.9	25.6	26.7	26.1	27.2	27.7
8H	18.8	19.8	19.3	20.3	20.9	26.3	27.4	26.9	27.9	28.4
12H	18.8	19.8	19.3	20.3	20.9	27.2	28.2	27.7	28.7	29.2
X=4H Y=2H	18.4	19.5	18.9	20.0	20.5	20.9	22.1	21.4	22.5	23.1
3H	19.5	20.5	20.1	21.0	21.6	23.4	24.4	24.0	24.9	25.5
4H	20.0	20.8	20.5	21.4	22.0	24.8	25.7	25.4	26.2	26.8
6H	20.2	21.0	20.8	21.5	22.2	26.3	27.1	26.9	27.7	28.3
8H	20.2	21.0	20.8	21.5	22.2	27.1	27.9	27.7	28.4	29.1
12H	20.2	20.9	20.8	21.5	22.2	28.1	28.7	28.7	29.3	30.0
X=8H Y=4H	20.6	21.4	21.2	22.0	22.6	24.9	25.6	25.5	26.2	26.8
6H	21.1	21.7	21.7	22.3	23.0	26.5	27.1	27.2	27.8	28.4
8H	21.2	21.8	21.9	22.4	23.1	27.5	28.0	28.1	28.6	29.3
12H	21.3	21.8	21.9	22.4	23.1	28.5	29.0	29.2	29.7	30.4
X=12H Y=4H	20.8	21.5	21.4	22.1	22.8	24.9	25.5	25.5	26.1	26.8
6H	21.4	21.9	22.0	22.6	23.3	26.6	27.1	27.2	27.7	28.4
8H	21.6	22.1	22.3	22.7	23.5	27.5	28.0	28.2	28.6	29.4
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.3				
S=1.5H	+0.4/-0.6					+0.6/-0.6				
S=2.0H	+0.5/-1.2					+1.1/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 2256lm ( $8\log(F/F_0) = 2.8$ ).

**FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM**


ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1027	45.5
FL ( 0°-30°)	244	10.8
FM (30°-60°)	480	21.3
FH (60°-80°)	234	10.4
FVH (80°-90°)	69	3.1
BACK LIGHT	997	44.2
BL ( 0°-30°)	242	10.7
BM (30°-60°)	467	20.7
BH (60°-80°)	223	9.9
BVH (80°-90°)	66	2.9
UP LIGHT	232	10.3
UL (90°-100°)	90	4.0
UH (100°-180°)	142	6.3
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U3 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U3 G1

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

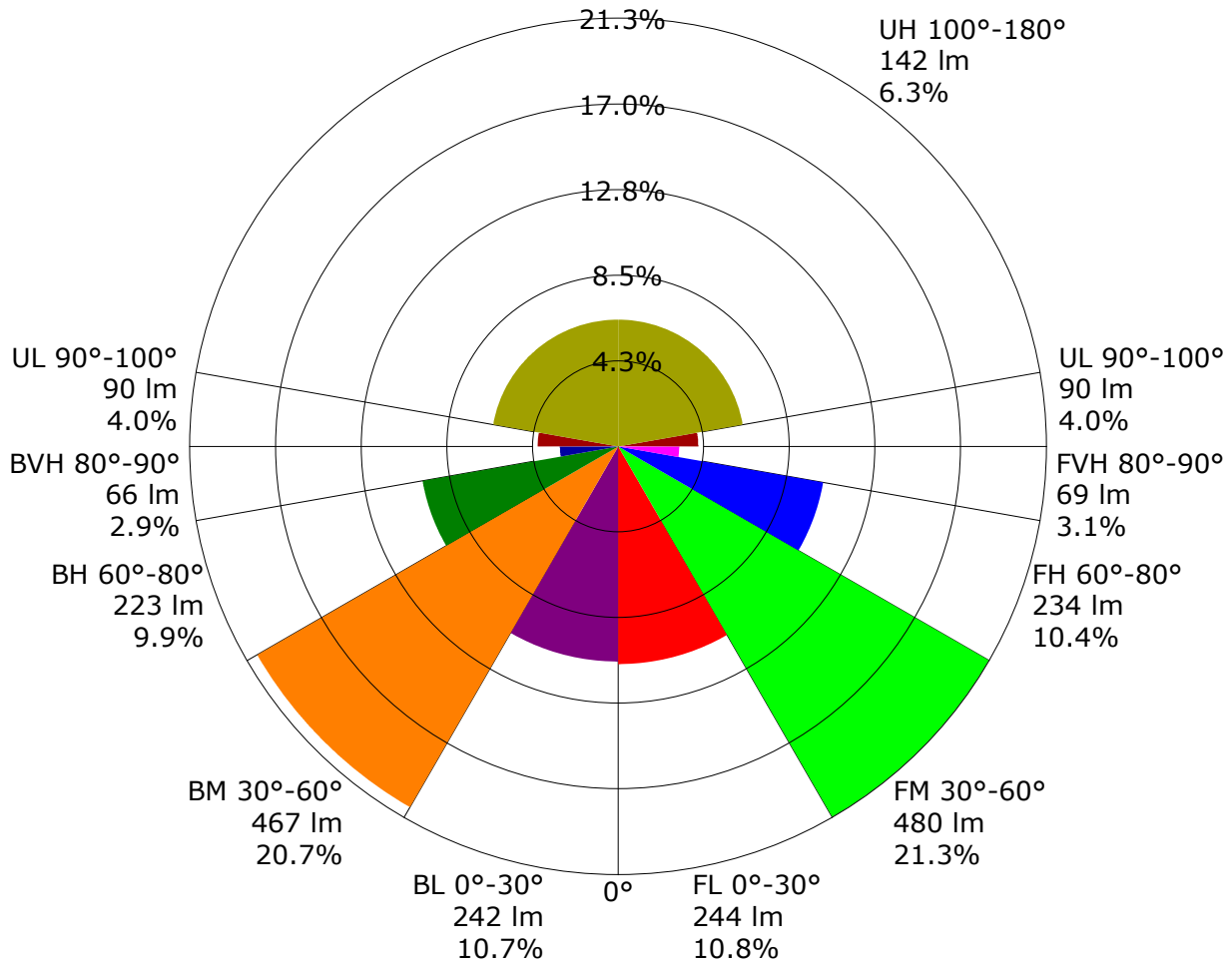
Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

## LCS Graph



**Back Light**

**Forward Light**

Scale= MAX LCS%

Trapped Light:NA,NA

## 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	0.51	0.60	0.67	0.73	0.80	0.85	0.89	0.93	0.97	
	0.30		0.43	0.52	0.59	0.65	0.73	0.79	0.83	0.88	0.92	
	0.20		0.37	0.46	0.53	0.59	0.67	0.73	0.78	0.84	0.88	
0.50	0.50	0.20	0.48	0.57	0.64	0.68	0.75	0.80	0.83	0.88	0.90	
	0.30		0.41	0.50	0.57	0.62	0.69	0.74	0.78	0.83	0.87	
	0.20		0.36	0.45	0.51	0.57	0.64	0.70	0.74	0.80	0.84	
0.30	0.50	0.20	0.46	0.54	0.60	0.64	0.71	0.75	0.78	0.82	0.85	
	0.30		0.39	0.48	0.54	0.59	0.66	0.71	0.74	0.79	0.82	
	0.20		0.35	0.43	0.50	0.55	0.62	0.67	0.71	0.76	0.79	
0.00	0.00	0.00	0.32	0.40	0.45	0.50	0.56	0.61	0.65	0.69	0.72	
Rating:18W 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	1.03	0.87	0.75	0.66	0.54	0.46	0.40	0.32	0.26	
	0.30		0.86	0.74	0.66	0.59	0.49	0.42	0.37	0.30	0.25	
	0.20		0.74	0.65	0.58	0.53	0.45	0.39	0.34	0.28	0.24	
0.50	0.50	0.20	0.97	0.82	0.71	0.62	0.51	0.46	0.38	0.30	0.25	
	0.30		0.82	0.71	0.62	0.56	0.47	0.40	0.35	0.28	0.24	
	0.20		0.71	0.63	0.56	0.51	0.43	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.93	0.77	0.67	0.59	0.48	0.41	0.35	0.28	0.24	
	0.30		0.79	0.68	0.60	0.53	0.44	0.38	0.33	0.27	0.23	
	0.20		0.69	0.61	0.54	0.49	0.41	0.36	0.31	0.26	0.22	
0.00	0.00	0.00	0.58	0.50	0.44	0.40	0.33	0.29	0.25	0.21	0.17	
<p>Rating:18W Photometrically tested without ceiling board.</p> <p>Multiply UF values by service correction factors</p> <p>Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

## 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	0.27	0.28	0.29	0.29	0.30	0.31	0.31	0.32	0.32	
	0.30		0.20	0.21	0.22	0.23	0.25	0.26	0.27	0.28	0.29	
	0.20		0.14	0.16	0.17	0.18	0.20	0.22	0.23	0.25	0.26	
0.50	0.50	0.20	0.26	0.27	0.28	0.28	0.29	0.30	0.30	0.30	0.31	
	0.30		0.19	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	
	0.20		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.24	0.25	
0.30	0.50	0.20	0.25	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.29	
	0.30		0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	
	0.20		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.23	0.24	
0.00	0.00	0.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
Rating:18W 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/klm]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	277.8	0.6	0.6	0.03	0.03
1.0-2.0	277.7	1.8	2.4	0.08	0.11
2.0-3.0	277.5	3.0	5.4	0.13	0.24
3.0-4.0	277.1	4.2	9.6	0.19	0.42
4.0-5.0	276.8	5.4	15.0	0.24	0.66
5.0-6.0	276.2	6.6	21.5	0.29	0.95
6.0-7.0	275.6	7.7	29.2	0.34	1.30
7.0-8.0	274.9	8.9	38.1	0.39	1.69
8.0-9.0	274.1	10.0	48.1	0.44	2.13
9.0-10.0	273.2	11.2	59.3	0.49	2.63
10.0-11.0	272.2	12.3	71.6	0.54	3.17
11.0-12.0	271.1	13.4	84.9	0.59	3.76
12.0-13.0	269.9	14.5	99.4	0.64	4.40
13.0-14.0	268.6	15.5	114.9	0.69	5.09
14.0-15.0	267.2	16.6	131.4	0.73	5.83
15.0-16.0	265.7	17.6	149.0	0.78	6.60
16.0-17.0	264.1	18.6	167.6	0.82	7.43
17.0-18.0	262.5	19.5	187.1	0.87	8.29
18.0-19.0	260.7	20.5	207.6	0.91	9.20
19.0-20.0	258.9	21.4	228.9	0.95	10.15
20.0-21.0	257.0	22.3	251.2	0.99	11.13
21.0-22.0	254.9	23.1	274.3	1.02	12.16
22.0-23.0	252.9	23.9	298.3	1.06	13.22
23.0-24.0	250.7	24.7	323.0	1.10	14.32
24.0-25.0	248.4	25.5	348.5	1.13	15.45
25.0-26.0	246.1	26.2	374.7	1.16	16.61
26.0-27.0	243.7	26.9	401.6	1.19	17.80
27.0-28.0	241.2	27.6	429.2	1.22	19.02
28.0-29.0	238.6	28.2	457.3	1.25	20.27
29.0-30.0	236.0	28.8	486.1	1.27	21.54
30.0-31.0	233.3	29.3	515.4	1.30	22.84
31.0-32.0	230.6	29.8	545.2	1.32	24.16
32.0-33.0	227.7	30.3	575.5	1.34	25.51
33.0-34.0	224.9	30.7	606.2	1.36	26.87
34.0-35.0	221.9	31.1	637.3	1.38	28.25
35.0-36.0	218.9	31.5	668.7	1.39	29.64

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

## Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd/klm]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	215.9	31.8	700.5	1.41	31.05
37.0-38.0	212.8	32.0	732.6	1.42	32.47
38.0-39.0	209.6	32.3	764.8	1.43	33.90
39.0-40.0	206.4	32.5	797.3	1.44	35.34
40.0-41.0	203.1	32.6	830.0	1.45	36.79
41.0-42.0	199.9	32.8	862.7	1.45	38.24
42.0-43.0	196.5	32.9	895.6	1.46	39.69
43.0-44.0	193.1	32.9	928.5	1.46	41.15
44.0-45.0	189.8	32.9	961.4	1.46	42.61
45.0-46.0	186.3	32.9	994.3	1.46	44.07
46.0-47.0	182.9	32.8	1027.1	1.45	45.52
47.0-48.0	179.3	32.7	1059.8	1.45	46.97
48.0-49.0	175.8	32.6	1092.4	1.44	48.42
49.0-50.0	172.4	32.4	1124.8	1.44	49.85
50.0-51.0	168.7	32.2	1157.0	1.43	51.28
51.0-52.0	165.1	32.0	1189.0	1.42	52.70
52.0-53.0	161.5	31.7	1220.7	1.41	54.10
53.0-54.0	157.9	31.4	1252.1	1.39	55.49
54.0-55.0	154.3	31.1	1283.2	1.38	56.87
55.0-56.0	150.6	30.7	1313.9	1.36	58.23
56.0-57.0	146.9	30.3	1344.2	1.34	59.58
57.0-58.0	143.4	29.9	1374.1	1.33	60.90
58.0-59.0	139.7	29.5	1403.6	1.31	62.21
59.0-60.0	136.1	29.0	1432.6	1.29	63.49
60.0-61.0	132.5	28.5	1461.1	1.26	64.76
61.0-62.0	128.8	28.0	1489.1	1.24	66.00
62.0-63.0	125.2	27.5	1516.6	1.22	67.22
63.0-64.0	121.6	26.9	1543.5	1.19	68.41
64.0-65.0	118.0	26.3	1569.8	1.17	69.58
65.0-66.0	114.4	25.8	1595.6	1.14	70.72
66.0-67.0	110.9	25.2	1620.8	1.11	71.84
67.0-68.0	107.4	24.5	1645.3	1.09	72.92
68.0-69.0	103.9	23.9	1669.2	1.06	73.98
69.0-70.0	100.4	23.3	1692.5	1.03	75.02
70.0-71.0	97.1	22.6	1715.1	1.00	76.02
71.0-72.0	93.7	22.0	1737.1	0.97	76.99

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd/klm]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	90.3	21.3	1758.4	0.94	77.94
73.0-74.0	87.0	20.6	1779.1	0.91	78.85
74.0-75.0	83.8	20.0	1799.0	0.89	79.74
75.0-76.0	80.6	19.3	1818.3	0.86	80.59
76.0-77.0	77.5	18.7	1837.0	0.83	81.42
77.0-78.0	74.5	18.0	1855.0	0.80	82.22
78.0-79.0	71.5	17.3	1872.3	0.77	82.99
79.0-80.0	68.6	16.7	1889.0	0.74	83.73
80.0-81.0	65.8	16.1	1905.1	0.71	84.44
81.0-82.0	63.1	15.4	1920.5	0.68	85.12
82.0-83.0	60.5	14.8	1935.3	0.66	85.78
83.0-84.0	57.9	14.2	1949.6	0.63	86.41
84.0-85.0	55.5	13.7	1963.3	0.61	87.02
85.0-86.0	53.2	13.1	1976.4	0.58	87.60
86.0-87.0	51.1	12.6	1989.0	0.56	88.16
87.0-88.0	49.0	12.1	2001.1	0.54	88.69
88.0-89.0	47.0	11.6	2012.7	0.52	89.21
89.0-90.0	45.2	11.2	2023.9	0.50	89.70
90.0-91.0	43.4	10.7	2034.7	0.48	90.18
91.0-92.0	41.8	10.3	2045.0	0.46	90.64
92.0-93.0	40.2	9.9	2054.9	0.44	91.08
93.0-94.0	38.6	9.5	2064.4	0.42	91.50
94.0-95.0	37.1	9.2	2073.6	0.41	91.91
95.0-96.0	35.7	8.8	2082.4	0.39	92.30
96.0-97.0	34.3	8.4	2090.8	0.37	92.67
97.0-98.0	33.0	8.1	2098.9	0.36	93.03
98.0-99.0	31.7	7.7	2106.7	0.34	93.37
99.0-100.0	30.5	7.4	2114.1	0.33	93.70
100.0-101.0	29.3	7.1	2121.2	0.32	94.02
101.0-102.0	28.1	6.8	2128.0	0.30	94.32
102.0-103.0	27.0	6.5	2134.6	0.29	94.61
103.0-104.0	26.0	6.2	2140.8	0.28	94.89
104.0-105.0	25.0	6.0	2146.8	0.27	95.15
105.0-106.0	24.0	5.7	2152.5	0.25	95.40
106.0-107.0	23.0	5.5	2158.0	0.24	95.65
107.0-108.0	22.1	5.2	2163.2	0.23	95.88

C Plane (°):0.0-360.0: 22.5  
 Test Lab: KARMA  
 Test Type: TYPE C  
 Temperature: 19  
 Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: LSG-1700B  
 Distance: 8.942 m  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 3)

Gamma [°]	Imean [cd/klm]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	21.3	5.0	2168.2	0.22	96.10
109.0-110.0	20.4	4.8	2172.9	0.21	96.31
110.0-111.0	19.6	4.5	2177.5	0.20	96.51
111.0-112.0	18.8	4.3	2181.8	0.19	96.70
112.0-113.0	18.1	4.1	2185.9	0.18	96.89
113.0-114.0	17.4	3.9	2189.9	0.17	97.06
114.0-115.0	16.7	3.8	2193.6	0.17	97.23
115.0-116.0	16.0	3.6	2197.2	0.16	97.39
116.0-117.0	15.3	3.4	2200.6	0.15	97.54
117.0-118.0	14.7	3.2	2203.8	0.14	97.68
118.0-119.0	14.1	3.1	2206.9	0.14	97.81
119.0-120.0	13.5	2.9	2209.8	0.13	97.94
120.0-121.0	12.9	2.8	2212.6	0.12	98.07
121.0-122.0	12.4	2.6	2215.2	0.12	98.18
122.0-123.0	11.9	2.5	2217.7	0.11	98.29
123.0-124.0	11.4	2.4	2220.0	0.10	98.40
124.0-125.0	11.0	2.2	2222.2	0.10	98.49
125.0-126.0	10.5	2.1	2224.4	0.09	98.59
126.0-127.0	10.0	2.0	2226.3	0.09	98.68
127.0-128.0	9.6	1.9	2228.2	0.08	98.76
128.0-129.0	9.2	1.8	2230.0	0.08	98.84
129.0-130.0	8.8	1.7	2231.7	0.07	98.91
130.0-131.0	8.5	1.6	2233.3	0.07	98.98
131.0-132.0	8.1	1.5	2234.8	0.07	99.05
132.0-133.0	7.8	1.4	2236.2	0.06	99.11
133.0-134.0	7.4	1.3	2237.5	0.06	99.17
134.0-135.0	7.1	1.2	2238.8	0.06	99.23
135.0-136.0	6.8	1.2	2239.9	0.05	99.28
136.0-137.0	6.5	1.1	2241.0	0.05	99.33
137.0-138.0	6.2	1.0	2242.1	0.05	99.37
138.0-139.0	6.0	1.0	2243.1	0.04	99.42
139.0-140.0	5.7	0.9	2244.0	0.04	99.46
140.0-141.0	5.5	0.9	2244.8	0.04	99.50
141.0-142.0	5.3	0.8	2245.7	0.04	99.53
142.0-143.0	5.1	0.8	2246.4	0.03	99.57
143.0-144.0	4.9	0.7	2247.1	0.03	99.60

C Plane (°):0.0-360.0: 22.5  
 Test Lab: KARMA  
 Test Type: TYPE C  
 Temperature: 19  
 Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: LSG-1700B  
 Distance: 8.942 m  
 Humidity:  
 Inspector:

## Zonal Lumen (Continue 4)

Gamma [°]	Imean [cd/klm]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	4.7	0.7	2247.8	0.03	99.63
145.0-146.0	4.5	0.6	2248.4	0.03	99.66
146.0-147.0	4.3	0.6	2249.0	0.03	99.68
147.0-148.0	4.2	0.6	2249.6	0.02	99.71
148.0-149.0	4.0	0.5	2250.1	0.02	99.73
149.0-150.0	3.9	0.5	2250.6	0.02	99.75
150.0-151.0	3.7	0.5	2251.1	0.02	99.77
151.0-152.0	3.6	0.4	2251.5	0.02	99.79
152.0-153.0	3.5	0.4	2251.9	0.02	99.81
153.0-154.0	3.4	0.4	2252.3	0.02	99.83
154.0-155.0	3.3	0.4	2252.6	0.02	99.84
155.0-156.0	3.2	0.3	2252.9	0.01	99.86
156.0-157.0	3.1	0.3	2253.2	0.01	99.87
157.0-158.0	3.0	0.3	2253.5	0.01	99.88
158.0-159.0	2.9	0.3	2253.8	0.01	99.89
159.0-160.0	2.9	0.2	2254.0	0.01	99.90
160.0-161.0	2.8	0.2	2254.3	0.01	99.91
161.0-162.0	2.7	0.2	2254.5	0.01	99.92
162.0-163.0	2.7	0.2	2254.7	0.01	99.93
163.0-164.0	2.6	0.2	2254.9	0.01	99.94
164.0-165.0	2.6	0.2	2255.0	0.01	99.95
165.0-166.0	2.5	0.2	2255.2	0.01	99.96
166.0-167.0	2.5	0.1	2255.3	0.01	99.96
167.0-168.0	2.4	0.1	2255.5	0.01	99.97
168.0-169.0	2.4	0.1	2255.6	0.01	99.97
169.0-170.0	2.4	0.1	2255.7	0.00	99.98
170.0-171.0	2.4	0.1	2255.8	0.00	99.98
171.0-172.0	2.4	0.1	2255.9	0.00	99.99
172.0-173.0	2.4	0.1	2256.0	0.00	99.99
173.0-174.0	2.3	0.1	2256.0	0.00	99.99
174.0-175.0	2.3	0.1	2256.1	0.00	99.99
175.0-176.0	2.3	0.0	2256.1	0.00	100.00
176.0-177.0	2.3	0.0	2256.2	0.00	100.00
177.0-178.0	2.3	0.0	2256.2	0.00	100.00
178.0-179.0	2.4	0.0	2256.2	0.00	100.00
179.0-180.0	2.4	0.0	2256.2	0.00	100.00

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

## Candlepower Table

Unit: cd/klm

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G0.0	277.8	277.8	277.7	277.7	278.0	277.7	277.8	277.6	277.8	277.8
G1.0	277.9	277.9	277.8	277.8	278.0	277.7	277.8	277.6	277.7	277.7
G2.0	277.9	277.9	277.8	277.7	278.0	277.5	277.6	277.3	277.3	277.4
G3.0	277.6	277.7	277.7	277.6	277.8	277.3	277.2	277.0	276.9	276.9
G4.0	277.3	277.6	277.5	277.4	277.6	277.0	276.9	276.4	276.4	276.4
G5.0	277.1	277.2	277.2	277.1	277.3	276.6	276.4	275.9	275.8	276.0
G6.0	276.3	276.7	276.7	276.7	276.9	276.2	275.7	275.2	274.9	275.0
G7.0	275.9	276.1	276.1	276.3	276.6	275.7	275.2	274.4	274.1	274.2
G8.0	275.0	275.4	275.5	275.7	275.8	274.9	274.3	273.5	272.9	273.2
G9.0	274.2	274.6	274.7	274.9	275.2	274.1	273.4	272.5	271.8	272.2
G10.0	273.1	273.6	274.0	274.2	274.7	273.3	272.5	271.3	270.6	271.0
G11.0	272.0	272.6	272.9	273.4	273.7	272.4	271.2	270.1	269.4	269.6
G12.0	270.7	271.2	271.9	272.4	272.9	271.4	270.1	268.8	267.9	268.1
G13.0	269.6	270.2	270.9	271.6	271.9	270.4	268.9	267.4	266.1	266.4
G14.0	268.1	268.7	269.6	270.4	270.7	269.1	267.4	265.7	264.5	265.0
G15.0	266.5	267.2	268.4	269.3	269.7	267.9	266.1	264.1	262.7	263.3
G16.0	264.8	265.6	267.0	268.1	268.3	266.6	264.5	262.4	260.9	261.4
G17.0	262.9	263.9	265.3	266.6	267.1	265.2	262.7	260.5	258.9	259.5
G18.0	261.2	262.1	263.8	265.3	265.6	263.7	261.0	258.5	256.7	257.5
G19.0	259.2	260.1	262.0	263.6	264.1	262.0	259.1	256.5	254.4	255.4
G20.0	257.0	258.4	260.2	262.0	262.9	260.5	257.3	254.3	252.3	253.2
G21.0	255.0	256.3	258.5	260.7	261.3	258.9	255.3	252.0	249.7	250.8
G22.0	252.5	254.1	256.4	258.9	259.5	256.8	253.2	249.6	247.3	248.4
G23.0	250.2	251.8	254.5	257.1	257.8	255.1	251.0	247.4	244.7	245.9
G24.0	247.7	249.5	252.5	255.3	256.2	253.1	248.8	244.8	242.1	243.3
G25.0	245.0	246.8	250.0	253.2	254.2	251.0	246.3	241.9	239.4	240.7
G26.0	242.5	244.4	247.7	251.3	252.3	249.0	244.2	239.4	236.6	237.9
G27.0	239.5	241.6	245.3	248.9	250.3	246.6	241.4	236.4	233.3	235.1
G28.0	236.8	239.1	242.9	247.1	248.2	244.5	239.0	233.6	230.6	232.2
G29.0	233.9	236.3	240.5	244.9	246.2	242.4	236.5	230.8	227.1	229.1
G30.0	230.8	233.3	237.8	242.5	244.0	240.0	233.5	227.5	224.2	226.2
G31.0	227.8	230.3	235.2	240.3	241.8	237.5	231.0	224.5	220.9	223.2
G32.0	224.7	227.5	232.7	238.0	239.7	235.1	228.2	221.3	217.6	219.7
G33.0	221.3	224.1	229.8	235.3	237.2	232.5	225.2	218.1	214.2	216.5
G34.0	218.2	221.0	226.9	232.9	234.8	230.1	222.3	214.9	211.0	213.3
G35.0	214.5	217.7	224.0	230.3	232.2	227.3	219.2	211.5	207.3	209.8
G36.0	211.2	214.6	221.0	227.8	229.8	224.8	216.1	208.1	203.9	206.6

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

**Candlepower Table (Continue 1)**

Unit: cd/klm

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G37.0	207.9	211.2	218.1	225.3	227.4	222.0	213.3	204.8	199.9	203.0
G38.0	203.9	207.6	215.0	222.4	224.7	219.1	210.0	200.9	196.2	199.4
G39.0	200.5	204.2	211.8	219.6	222.0	216.3	206.8	197.5	192.7	195.8
G40.0	196.5	200.7	208.7	216.6	219.4	213.4	203.3	193.7	188.3	192.0
G41.0	192.8	197.1	205.6	213.9	216.7	210.6	200.3	190.1	184.7	188.2
G42.0	189.3	193.4	202.4	211.1	214.0	207.7	197.0	186.4	180.9	184.8
G43.0	185.1	189.6	198.9	208.0	211.1	204.7	193.4	182.4	176.7	180.6
G44.0	181.5	185.9	195.6	205.2	208.3	201.8	190.2	178.7	172.6	176.9
G45.0	177.5	182.2	192.5	202.4	205.6	198.7	186.8	175.2	168.3	172.8
G46.0	173.2	178.2	188.8	199.2	202.5	195.6	183.3	170.8	164.4	169.0
G47.0	169.3	174.6	185.6	196.1	199.8	192.6	179.8	166.9	160.3	165.4
G48.0	165.1	170.4	181.8	193.0	196.6	189.5	176.2	162.8	156.0	161.0
G49.0	160.9	166.6	178.6	190.1	193.7	186.6	172.7	158.8	151.8	157.3
G50.0	156.8	162.7	175.2	187.1	190.9	183.5	169.4	155.1	147.6	153.4
G51.0	152.3	158.5	171.4	183.7	187.8	180.2	165.5	150.7	143.1	149.0
G52.0	148.0	154.6	168.0	180.6	184.8	176.9	162.2	146.8	138.7	145.2
G53.0	143.8	150.7	164.7	177.6	181.8	173.9	158.8	142.6	134.1	140.6
G54.0	139.2	146.3	160.8	174.3	178.7	170.7	155.0	138.2	129.9	136.8
G55.0	135.1	142.2	157.5	171.1	175.7	167.5	151.6	134.4	125.5	132.7
G56.0	130.5	138.0	153.7	168.0	172.6	164.2	147.8	130.0	120.9	128.4
G57.0	126.0	134.1	150.1	164.8	169.6	161.0	144.4	126.0	116.4	124.6
G58.0	121.7	130.0	146.9	161.8	166.7	158.1	140.9	122.0	111.6	120.2
G59.0	116.9	125.6	143.1	158.4	163.5	154.7	137.2	117.6	107.0	116.4
G60.0	112.6	121.6	139.8	155.3	160.5	151.6	133.8	113.7	102.8	112.2
G61.0	108.1	117.6	136.4	152.3	157.6	148.7	130.4	109.7	97.9	107.8
G62.0	103.1	113.5	132.8	148.9	154.2	145.3	126.8	105.2	93.4	104.0
G63.0	98.8	109.4	129.2	146.0	151.4	142.3	123.4	101.3	89.0	100.1
G64.0	94.1	105.0	125.6	142.6	148.2	138.9	119.8	97.1	84.2	95.8
G65.0	89.4	101.0	122.3	139.5	145.3	136.0	116.5	93.2	79.6	92.0
G66.0	85.1	97.1	119.0	136.6	142.4	133.0	113.3	89.2	74.8	87.8
G67.0	80.0	92.9	115.5	133.4	139.2	129.8	109.8	85.1	70.3	84.1
G68.0	75.6	89.1	112.2	130.4	136.3	126.9	106.6	81.3	66.0	80.3
G69.0	71.0	85.2	109.1	127.5	133.4	124.0	103.4	77.6	61.1	76.2
G70.0	66.3	81.0	105.7	124.2	130.2	120.7	100.0	73.5	56.5	72.6
G71.0	61.7	77.5	102.6	121.3	127.5	118.0	97.0	70.0	52.2	69.2
G72.0	57.1	73.4	99.1	118.3	124.3	114.7	93.7	66.0	47.6	65.3
G73.0	52.5	69.8	96.1	115.3	121.4	112.0	90.6	62.7	43.2	61.9

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:



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## Candlepower Table (Continue 2)

Unit: cd/klm

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G74.0	48.2	66.2	92.9	112.6	118.7	109.2	87.7	59.2	38.8	58.1
G75.0	43.5	62.5	89.9	109.5	115.9	106.3	84.8	55.7	34.5	55.1
G76.0	39.2	59.0	86.9	106.8	113.1	103.5	81.9	52.4	30.6	51.9
G77.0	35.1	55.8	84.1	104.1	110.4	100.9	79.1	49.2	26.4	48.6
G78.0	30.7	52.3	80.9	101.1	107.5	98.0	76.2	45.9	22.6	45.7
G79.0	26.8	49.2	78.3	98.5	105.0	95.4	73.4	42.9	19.1	42.8
G80.0	22.8	46.0	75.3	95.7	102.1	92.6	70.7	40.1	15.4	40.0
G81.0	19.2	43.2	72.8	93.1	99.6	90.1	68.1	37.6	12.3	37.4
G82.0	15.8	40.4	70.1	90.6	97.0	87.5	65.7	35.0	9.1	34.8
G83.0	12.3	37.6	67.4	87.9	94.2	85.0	63.2	32.4	6.6	32.4
G84.0	9.4	35.2	65.0	85.4	91.8	82.5	60.8	30.2	4.3	30.2
G85.0	6.5	32.5	62.5	82.8	89.2	80.0	58.3	27.7	2.4	27.9
G86.0	4.4	30.2	60.1	80.3	86.8	77.7	56.1	25.8	1.0	26.0
G87.0	2.5	28.1	57.7	78.0	84.4	75.4	54.0	23.9	0.2	24.2
G88.0	1.0	25.9	55.5	75.4	81.9	73.0	51.6	21.9	0.0	22.4
G89.0	0.3	24.0	53.3	73.3	79.7	70.7	49.7	20.1	0.0	20.8
G90.0	0.1	22.3	51.2	71.0	77.4	68.6	47.6	18.7	0.0	19.2
G91.0	0.1	20.4	49.0	68.7	75.0	66.3	45.6	17.0	0.1	17.9
G92.0	0.1	18.8	47.0	66.6	72.8	64.2	43.9	15.7	0.1	16.6
G93.0	0.1	17.2	45.0	64.2	70.5	62.1	41.8	14.5	0.1	15.3
G94.0	0.2	15.8	43.0	62.4	68.5	60.1	40.2	13.5	0.1	14.3
G95.0	0.2	14.7	41.5	60.4	66.3	58.2	38.6	12.5	0.1	13.3
G96.0	0.2	13.5	39.5	58.3	64.2	56.1	36.7	11.6	0.1	12.3
G97.0	0.2	12.6	37.8	56.3	62.3	54.2	35.3	10.7	0.2	11.6
G98.0	0.2	11.7	36.3	54.3	60.3	52.4	33.7	10.1	0.2	10.7
G99.0	0.3	10.8	34.7	52.5	58.3	50.5	32.2	9.4	0.2	10.1
G100.0	0.2	10.1	33.1	50.7	56.4	48.8	30.9	8.8	0.3	9.4
G101.0	0.3	9.5	31.6	48.8	54.5	47.0	29.5	8.2	0.2	8.8
G102.0	0.3	8.9	30.3	47.1	52.7	45.3	28.3	7.7	0.3	8.2
G103.0	0.4	8.3	29.1	45.6	51.0	43.9	27.0	7.2	0.3	7.8
G104.0	0.4	7.8	27.7	43.8	49.1	42.2	25.8	6.7	0.4	7.3
G105.0	0.4	7.3	26.5	42.3	47.5	40.7	24.7	6.4	0.4	6.9
G106.0	0.5	6.9	25.3	40.8	45.8	39.2	23.7	6.1	0.4	6.6
G107.0	0.4	6.4	24.1	39.1	44.1	37.6	22.6	5.7	0.5	6.2
G108.0	0.5	6.1	23.1	37.7	42.7	36.3	21.6	5.5	0.5	5.9
G109.0	0.5	5.8	22.1	36.1	41.0	34.8	20.6	5.2	0.5	5.6
G110.0	0.6	5.5	21.1	34.8	39.6	33.5	19.8	5.0	0.5	5.4

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:



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## Candlepower Table (Continue 3)

Unit: cd/klm

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G111.0	0.6	5.3	20.2	33.5	38.1	32.2	18.8	4.8	0.6	5.1
G112.0	0.7	5.1	19.2	32.1	36.6	30.9	18.0	4.6	0.6	4.9
G113.0	0.7	4.8	18.4	30.8	35.2	29.7	17.2	4.4	0.7	4.7
G114.0	0.7	4.7	17.6	29.7	34.0	28.5	16.5	4.2	0.7	4.5
G115.0	0.7	4.5	16.7	28.5	32.6	27.4	15.7	4.1	0.7	4.4
G116.0	0.8	4.3	15.9	27.4	31.3	26.3	15.0	3.9	0.7	4.3
G117.0	0.8	4.1	15.1	26.2	30.0	25.1	14.2	3.8	0.8	4.0
G118.0	0.9	4.0	14.3	25.1	28.9	24.1	13.7	3.6	0.8	3.8
G119.0	0.9	3.9	13.5	24.1	27.8	23.1	13.1	3.5	0.9	3.7
G120.0	0.9	3.6	12.7	22.9	26.6	22.1	12.5	3.4	0.9	3.6
G121.0	0.9	3.5	12.0	22.1	25.4	21.3	12.0	3.3	0.9	3.5
G122.0	1.0	3.4	11.5	21.1	24.4	20.3	11.5	3.2	0.9	3.4
G123.0	1.0	3.3	11.1	20.2	23.3	19.4	11.0	3.1	1.0	3.3
G124.0	1.1	3.3	10.7	19.4	22.4	18.6	10.5	3.1	1.0	3.2
G125.0	1.1	3.1	10.3	18.5	21.4	17.7	9.7	3.0	1.1	3.1
G126.0	1.1	3.1	9.7	17.7	20.5	17.0	9.3	2.9	1.1	3.1
G127.0	1.2	3.1	9.1	16.9	19.6	16.3	8.8	2.9	1.1	3.0
G128.0	1.2	3.0	8.4	16.1	18.7	15.5	8.5	2.8	1.1	2.9
G129.0	1.2	2.9	8.0	15.4	17.9	14.8	8.1	2.7	1.2	2.9
G130.0	1.2	2.9	8.0	14.7	17.0	14.2	7.8	2.7	1.2	2.8
G131.0	1.2	2.8	7.8	14.0	16.2	13.5	7.4	2.7	1.3	2.8
G132.0	1.3	2.8	7.5	13.4	15.5	12.9	7.1	2.6	1.3	2.8
G133.0	1.4	2.7	7.2	12.6	14.8	12.0	6.9	2.6	1.3	2.7
G134.0	1.4	2.6	6.9	11.8	14.1	11.4	6.6	2.5	1.3	2.7
G135.0	1.4	2.6	6.7	11.3	13.4	10.8	6.3	2.5	1.4	2.7
G136.0	1.4	2.6	6.4	10.7	12.4	10.3	6.1	2.5	1.4	2.6
G137.0	1.5	2.6	6.1	10.2	11.9	9.9	5.9	2.4	1.4	2.6
G138.0	1.5	2.5	5.9	9.6	11.2	9.4	5.6	2.4	1.4	2.6
G139.0	1.6	2.5	5.6	8.9	10.7	8.9	5.4	2.4	1.5	2.5
G140.0	1.6	2.4	5.4	8.5	10.2	8.5	5.2	2.4	1.5	2.5
G141.0	1.6	2.4	5.2	8.1	9.7	8.1	5.0	2.4	1.6	2.5
G142.0	1.7	2.4	5.0	7.8	9.2	7.7	4.8	2.4	1.6	2.5
G143.0	1.7	2.4	4.8	7.5	8.7	7.4	4.6	2.3	1.6	2.4
G144.0	1.7	2.3	4.5	7.1	8.3	7.0	4.5	2.3	1.6	2.4
G145.0	1.7	2.3	4.3	6.8	7.9	6.7	4.3	2.3	1.7	2.4
G146.0	1.8	2.3	4.1	6.4	7.5	6.4	4.2	2.3	1.7	2.4
G147.0	1.8	2.3	4.0	6.2	7.1	6.1	4.0	2.2	1.7	2.4

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

## Candlepower Table (Continue 4)

Unit: cd/klm

G\C	C0.0	C22.5	C45.0	C67.5	C90.0	C112.5	C135.0	C157.5	C180.0	C202.5
G148.0	1.8	2.3	3.8	5.9	6.8	5.8	3.9	2.2	1.7	2.3
G149.0	1.8	2.2	3.6	5.6	6.4	5.5	3.7	2.2	1.8	2.4
G150.0	1.9	2.2	3.5	5.3	6.1	5.2	3.7	2.2	1.8	2.3
G151.0	1.9	2.2	3.4	5.1	5.8	5.0	3.6	2.2	1.8	2.3
G152.0	1.9	2.2	3.3	4.8	5.5	4.8	3.4	2.2	1.8	2.3
G153.0	1.9	2.2	3.2	4.6	5.2	4.6	3.3	2.2	1.8	2.3
G154.0	2.0	2.3	3.1	4.4	5.0	4.4	3.2	2.2	1.9	2.3
G155.0	2.0	2.2	3.0	4.2	4.7	4.2	3.1	2.2	1.9	2.3
G156.0	2.0	2.2	3.0	3.9	4.5	4.0	3.0	2.2	1.9	2.3
G157.0	2.0	2.2	2.9	3.8	4.3	3.8	2.9	2.2	1.9	2.3
G158.0	2.0	2.3	2.8	3.7	4.0	3.7	2.9	2.2	1.9	2.3
G159.0	2.1	2.2	2.7	3.5	3.8	3.5	2.8	2.2	2.0	2.3
G160.0	2.1	2.3	2.7	3.3	3.6	3.4	2.7	2.2	2.0	2.2
G161.0	2.1	2.2	2.7	3.2	3.4	3.2	2.7	2.2	2.0	2.3
G162.0	2.1	2.2	2.6	3.0	3.3	3.1	2.6	2.3	2.0	2.2
G163.0	2.1	2.3	2.6	2.9	3.2	3.0	2.6	2.2	2.0	2.2
G164.0	2.1	2.2	2.5	2.8	3.1	2.9	2.5	2.3	2.0	2.3
G165.0	2.2	2.3	2.5	2.7	2.9	2.8	2.5	2.3	2.1	2.3
G166.0	2.2	2.3	2.5	2.7	2.8	2.7	2.4	2.3	2.1	2.3
G167.0	2.2	2.3	2.4	2.6	2.7	2.6	2.4	2.3	2.1	2.3
G168.0	2.2	2.3	2.4	2.6	2.7	2.6	2.5	2.3	2.1	2.3
G169.0	2.2	2.3	2.4	2.5	2.5	2.5	2.4	2.3	2.1	2.3
G170.0	2.2	2.3	2.3	2.5	2.5	2.4	2.4	2.3	2.1	2.3
G171.0	2.2	2.3	2.4	2.5	2.5	2.4	2.4	2.3	2.2	2.3
G172.0	2.2	2.3	2.3	2.5	2.4	2.4	2.4	2.4	2.1	2.3
G173.0	2.3	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.2	2.3
G174.0	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.2	2.3
G175.0	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.2	2.3
G176.0	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.2	2.4
G177.0	2.3	2.3	2.3	2.4	2.3	2.4	2.4	2.3	2.2	2.3
G178.0	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.3	2.2	2.3
G179.0	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.3	2.2	2.3
G180.0	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.2	2.3

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

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## Candlepower Table (Continue 5)

Unit: cd/klm

G\C	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G0.0	277.7	277.7	278.0	277.7	277.8	277.6	277.8			
G1.0	277.5	277.5	277.9	277.7	277.8	277.6	277.9			
G2.0	277.2	277.5	277.6	277.7	277.6	277.7	277.9			
G3.0	276.9	277.0	277.5	277.3	277.4	277.4	277.6			
G4.0	276.4	276.5	276.9	276.9	277.0	277.0	277.3			
G5.0	275.8	276.2	276.5	276.6	276.8	276.5	277.1			
G6.0	275.1	275.5	276.0	276.1	276.1	275.8	276.3			
G7.0	274.4	274.8	275.3	275.5	275.6	275.5	275.9			
G8.0	273.3	274.1	274.6	274.8	274.8	274.5	275.0			
G9.0	272.4	273.2	273.9	274.1	274.0	273.6	274.2			
G10.0	271.5	272.2	273.0	273.3	273.0	272.7	273.1			
G11.0	270.2	271.2	271.9	272.2	272.0	271.5	272.0			
G12.0	268.9	270.1	271.1	271.3	270.9	270.4	270.7			
G13.0	267.4	268.8	269.8	270.1	269.7	269.0	269.6			
G14.0	266.1	267.7	268.6	268.9	268.4	267.5	268.1			
G15.0	264.7	266.3	267.4	267.8	267.0	266.0	266.5			
G16.0	262.9	264.9	266.0	266.2	265.4	264.3	264.8			
G17.0	261.2	263.3	264.6	264.9	263.8	262.6	262.9			
G18.0	259.5	261.7	263.2	263.4	262.2	260.9	261.2			
G19.0	257.3	260.1	261.5	261.6	260.4	258.7	259.2			
G20.0	255.6	258.2	260.0	260.1	258.6	256.8	257.0			
G21.0	253.4	256.4	258.1	258.3	256.7	254.4	255.0			
G22.0	251.2	254.5	256.4	256.5	254.6	252.3	252.5			
G23.0	249.0	252.7	254.6	254.8	252.6	250.1	250.2			
G24.0	246.5	250.5	252.7	252.6	250.2	247.5	247.7			
G25.0	244.1	248.5	250.8	250.7	248.0	245.1	245.0			
G26.0	241.9	246.5	248.8	248.6	245.8	242.5	242.5			
G27.0	239.2	244.2	246.6	246.4	243.1	239.7	239.5			
G28.0	236.6	242.0	244.5	244.1	240.7	237.2	236.8			
G29.0	233.9	239.3	242.2	241.7	238.2	234.0	233.9			
G30.0	231.3	237.1	239.9	239.6	235.4	231.3	230.8			
G31.0	228.6	234.7	237.8	237.0	232.8	228.5	227.8			
G32.0	225.6	232.0	235.2	234.5	229.9	225.1	224.7			
G33.0	222.7	229.5	232.9	232.0	227.1	222.1	221.3			
G34.0	220.0	227.0	230.5	229.7	224.4	218.9	218.2			
G35.0	216.7	224.3	227.7	226.9	221.1	215.8	214.5			
G36.0	213.7	221.5	225.3	224.2	218.4	212.4	211.2			

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

## Candlepower Table (Continue 6)

Unit: cd/klm

G\C	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G37.0	210.3	218.5	222.7	221.5	215.2	208.8	207.9			
G38.0	207.4	216.1	220.1	218.7	212.1	205.4	203.9			
G39.0	204.2	213.3	217.4	216.2	209.3	202.1	200.5			
G40.0	200.7	210.1	214.5	212.9	205.7	198.1	196.5			
G41.0	197.3	207.5	211.9	210.1	202.7	194.7	192.8			
G42.0	194.2	204.4	209.4	207.4	199.3	191.1	189.3			
G43.0	190.7	201.4	206.4	204.4	195.8	187.1	185.1			
G44.0	187.5	198.4	203.6	201.4	192.5	183.6	181.5			
G45.0	184.0	195.3	200.6	198.3	189.0	179.6	177.5			
G46.0	180.6	192.5	197.7	195.4	185.8	175.8	173.2			
G47.0	177.3	189.4	195.0	192.5	182.4	172.1	169.3			
G48.0	173.6	186.2	191.8	189.1	179.0	168.1	165.1			
G49.0	170.2	183.2	188.9	186.2	175.5	164.0	160.9			
G50.0	166.8	180.2	186.1	183.2	172.0	160.3	156.8			
G51.0	163.0	176.8	183.0	179.9	168.5	156.0	152.3			
G52.0	159.7	173.9	180.2	177.0	165.0	152.2	148.0			
G53.0	155.9	170.6	176.9	173.5	161.3	147.9	143.8			
G54.0	152.6	167.5	174.1	170.6	158.0	143.8	139.2			
G55.0	149.3	164.5	171.3	167.6	154.4	140.0	135.1			
G56.0	145.5	161.2	168.0	164.3	150.8	135.6	130.5			
G57.0	142.1	158.3	165.2	161.3	147.2	131.7	126.0			
G58.0	138.4	155.0	161.9	158.0	143.8	127.3	121.7			
G59.0	135.0	152.0	159.0	154.8	140.3	123.6	116.9			
G60.0	131.7	149.0	156.3	151.9	136.8	119.4	112.6			
G61.0	127.9	145.7	153.0	148.6	133.2	115.0	108.1			
G62.0	124.7	142.7	150.1	145.6	129.7	111.2	103.1			
G63.0	121.6	139.8	147.2	142.7	126.5	107.3	98.8			
G64.0	118.0	136.6	144.1	139.4	122.9	102.9	94.1			
G65.0	114.6	133.6	141.4	136.5	119.7	99.0	89.4			
G66.0	111.2	130.5	138.2	133.2	116.1	94.7	85.1			
G67.0	108.2	127.6	135.4	130.4	112.9	91.0	80.0			
G68.0	105.0	124.6	132.6	127.4	109.7	87.1	75.6			
G69.0	101.6	121.7	129.5	124.2	106.2	82.9	71.0			
G70.0	98.6	118.7	126.7	121.4	103.2	79.2	66.3			
G71.0	95.7	116.1	124.1	118.7	100.1	75.6	61.7			
G72.0	92.3	113.2	121.1	115.7	96.8	71.5	57.1			
G73.0	89.5	110.2	118.3	112.8	93.8	68.1	52.5			

C Plane (°):0.0-360.0: 22.5  
 Test Lab: KARMA  
 Test Type: TYPE C  
 Temperature: 19  
 Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0  
 Test Device: LSG-1700B  
 Distance: 8.942 m  
 Humidity:  
 Inspector:



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## Candlepower Table (Continue 7)

Unit: cd/klm

G\C	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G74.0	86.4	107.4	115.4	109.8	90.6	64.3	48.2			
G75.0	83.7	104.6	112.8	107.2	87.8	60.9	43.5			
G76.0	80.9	102.0	110.3	104.5	84.9	57.5	39.2			
G77.0	77.9	99.3	107.4	101.7	81.9	54.2	35.1			
G78.0	75.4	96.7	104.8	99.1	79.1	51.0	30.7			
G79.0	72.8	94.2	102.4	96.4	76.5	48.0	26.8			
G80.0	70.1	91.4	99.5	93.7	73.8	44.6	22.8			
G81.0	67.6	88.9	97.2	91.3	71.2	41.9	19.2			
G82.0	65.0	86.3	94.5	88.6	68.5	39.1	15.8			
G83.0	62.6	84.1	92.1	86.1	66.1	36.5	12.3			
G84.0	60.4	81.7	89.7	83.8	63.6	34.1	9.4			
G85.0	58.0	79.2	87.2	81.2	61.2	31.5	6.5			
G86.0	55.8	76.9	85.0	78.9	58.9	29.4	4.4			
G87.0	53.7	74.8	82.7	76.7	56.8	27.4	2.5			
G88.0	51.6	72.3	80.3	74.3	54.4	25.2	1.0			
G89.0	49.8	70.3	78.1	72.2	52.4	23.5	0.3			
G90.0	47.5	68.0	75.6	69.8	50.2	21.6	0.1			
G91.0	45.7	66.0	73.6	67.7	48.2	20.1	0.1			
G92.0	43.9	63.9	71.5	65.6	46.3	18.6	0.1			
G93.0	42.1	61.8	69.3	63.5	44.3	17.2	0.1			
G94.0	40.4	59.8	67.2	61.5	42.6	16.0	0.2			
G95.0	38.7	58.1	65.3	59.6	41.0	14.9	0.2			
G96.0	37.1	55.9	63.1	57.4	39.1	13.8	0.2			
G97.0	35.5	54.2	61.2	55.6	37.6	12.8	0.2			
G98.0	34.0	52.2	59.1	53.7	35.8	11.9	0.2			
G99.0	32.5	50.5	57.3	51.9	34.4	11.1	0.3			
G100.0	31.2	48.9	55.5	50.2	33.0	10.4	0.2			
G101.0	29.9	47.1	53.6	48.4	31.5	9.7	0.3			
G102.0	28.6	45.4	51.9	46.7	30.2	9.0	0.3			
G103.0	27.4	43.8	50.1	45.0	28.9	8.4	0.4			
G104.0	26.2	42.3	48.5	43.4	27.5	8.0	0.4			
G105.0	25.1	40.7	46.9	41.9	26.4	7.5	0.4			
G106.0	23.9	39.2	45.2	40.2	25.3	7.1	0.5			
G107.0	22.9	37.9	43.6	38.9	24.2	6.7	0.4			
G108.0	22.0	36.4	42.2	37.5	23.1	6.3	0.5			
G109.0	21.0	35.0	40.5	36.0	22.1	6.0	0.5			
G110.0	20.0	33.8	39.1	34.7	21.1	5.7	0.6			

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

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## Candlepower Table (Continue 8)

Unit: cd/klm

G\C	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G111.0	19.2	32.3	37.6	33.2	20.0	5.4	0.6			
G112.0	18.4	31.1	36.2	32.0	19.3	5.2	0.7			
G113.0	17.6	30.0	34.9	30.9	18.5	5.0	0.7			
G114.0	16.8	28.7	33.5	29.5	17.6	4.8	0.7			
G115.0	16.1	27.6	32.3	28.4	16.9	4.6	0.7			
G116.0	15.4	26.6	31.1	27.3	16.1	4.4	0.8			
G117.0	14.7	25.4	29.9	26.1	15.4	4.2	0.8			
G118.0	14.1	24.4	28.6	25.1	14.8	4.1	0.9			
G119.0	13.4	23.4	27.5	24.1	14.0	3.9	0.9			
G120.0	12.9	22.4	26.4	23.0	13.5	3.8	0.9			
G121.0	12.3	21.5	25.3	22.1	12.9	3.6	0.9			
G122.0	11.8	20.6	24.2	21.2	12.3	3.5	1.0			
G123.0	11.3	19.7	23.2	20.2	11.8	3.4	1.0			
G124.0	10.8	18.9	22.3	19.4	11.3	3.3	1.1			
G125.0	10.1	18.0	21.4	18.5	10.8	3.3	1.1			
G126.0	9.6	17.3	20.5	17.8	10.2	3.2	1.1			
G127.0	9.1	16.5	19.5	17.0	9.6	3.1	1.2			
G128.0	8.7	15.8	18.7	16.2	9.1	3.0	1.2			
G129.0	8.4	15.2	17.9	15.5	8.7	3.0	1.2			
G130.0	8.0	14.4	17.0	14.8	8.3	2.9	1.2			
G131.0	7.7	13.8	16.3	14.1	8.0	2.8	1.2			
G132.0	7.4	13.2	15.5	13.5	7.7	2.8	1.3			
G133.0	7.1	12.3	14.8	12.9	7.3	2.8	1.4			
G134.0	6.8	11.6	14.1	12.0	7.0	2.7	1.4			
G135.0	6.5	11.1	13.3	11.3	6.8	2.7	1.4			
G136.0	6.3	10.6	12.5	10.7	6.5	2.6	1.4			
G137.0	6.0	10.1	11.9	10.4	6.3	2.6	1.5			
G138.0	5.8	9.6	11.4	9.8	6.0	2.5	1.5			
G139.0	5.6	9.2	10.8	9.4	5.8	2.5	1.6			
G140.0	5.4	8.7	10.3	9.0	5.6	2.4	1.6			
G141.0	5.2	8.3	9.7	8.5	5.4	2.4	1.6			
G142.0	5.0	7.9	9.2	8.2	5.2	2.4	1.7			
G143.0	4.8	7.6	8.8	7.7	4.9	2.4	1.7			
G144.0	4.7	7.2	8.4	7.4	4.7	2.4	1.7			
G145.0	4.4	6.9	8.0	7.1	4.5	2.4	1.7			
G146.0	4.3	6.6	7.5	6.7	4.2	2.4	1.8			
G147.0	4.1	6.2	7.2	6.4	4.1	2.3	1.8			

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 19

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

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## Candlepower Table (Continue 9)

Unit: cd/klm

G\C	C225.0	C247.5	C270.0	C292.5	C315.0	C337.5	C360.0			
G148.0	3.9	5.9	6.9	6.1	3.8	2.3	1.8			
G149.0	3.9	5.7	6.5	5.8	3.7	2.3	1.8			
G150.0	3.7	5.4	6.2	5.6	3.5	2.3	1.9			
G151.0	3.6	5.2	5.8	5.3	3.4	2.3	1.9			
G152.0	3.6	4.9	5.6	5.1	3.3	2.2	1.9			
G153.0	3.4	4.6	5.3	4.9	3.2	2.3	1.9			
G154.0	3.3	4.4	5.0	4.6	3.2	2.3	2.0			
G155.0	3.2	4.3	4.8	4.4	3.1	2.2	2.0			
G156.0	3.1	4.1	4.5	4.2	3.1	2.3	2.0			
G157.0	3.1	3.9	4.4	4.0	3.0	2.3	2.0			
G158.0	3.0	3.8	4.2	3.8	2.9	2.2	2.0			
G159.0	2.9	3.6	4.0	3.6	2.9	2.2	2.1			
G160.0	2.8	3.5	3.8	3.4	2.8	2.2	2.1			
G161.0	2.8	3.4	3.6	3.3	2.8	2.2	2.1			
G162.0	2.7	3.2	3.5	3.1	2.7	2.2	2.1			
G163.0	2.7	3.1	3.4	2.9	2.6	2.2	2.1			
G164.0	2.6	3.0	3.2	2.9	2.6	2.2	2.1			
G165.0	2.5	2.9	3.0	2.8	2.6	2.2	2.2			
G166.0	2.5	2.8	2.9	2.7	2.5	2.3	2.2			
G167.0	2.5	2.7	2.8	2.7	2.5	2.2	2.2			
G168.0	2.4	2.7	2.8	2.6	2.4	2.3	2.2			
G169.0	2.4	2.6	2.7	2.6	2.4	2.3	2.2			
G170.0	2.4	2.5	2.6	2.6	2.4	2.3	2.2			
G171.0	2.4	2.5	2.5	2.5	2.4	2.2	2.2			
G172.0	2.3	2.5	2.5	2.5	2.4	2.3	2.2			
G173.0	2.3	2.4	2.5	2.4	2.3	2.3	2.3			
G174.0	2.3	2.4	2.4	2.4	2.3	2.3	2.3			
G175.0	2.3	2.3	2.4	2.4	2.4	2.3	2.3			
G176.0	2.4	2.3	2.4	2.4	2.4	2.3	2.3			
G177.0	2.3	2.4	2.4	2.4	2.4	2.3	2.3			
G178.0	2.3	2.4	2.4	2.3	2.4	2.3	2.3			
G179.0	2.4	2.4	2.4	2.4	2.4	2.3	2.3			
G180.0	2.4	2.4	2.4	2.4	2.4	2.4	2.3			

C Plane (°):0.0-360.0: 22.5

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