

Report No.: 1810261447

Test Time: 2018-10-26 14:48

Luminaire Property

Luminaire Manufacturer: 05-05120 27 T8 4000K 127 lm LOT2018050010

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 26

Luminous Height (mm): 32

Voltage: 220.3 V

Current: 0.119 A

Power: 25.53 W

Power Factor: 0.976

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 3058.2 lm

Downward Ratio: 90%

Total Rated Lamp Lumens: 3058.2 lm

Efficiency: 100%

Upward Ratio: 10%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.3, 237.9, 206.8, 206.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 105.6, 132.2, 117.6, 117.4

Luminaire Efficacy Rating (LER): 119.84

Central Intensity: 279.25 cd/klm

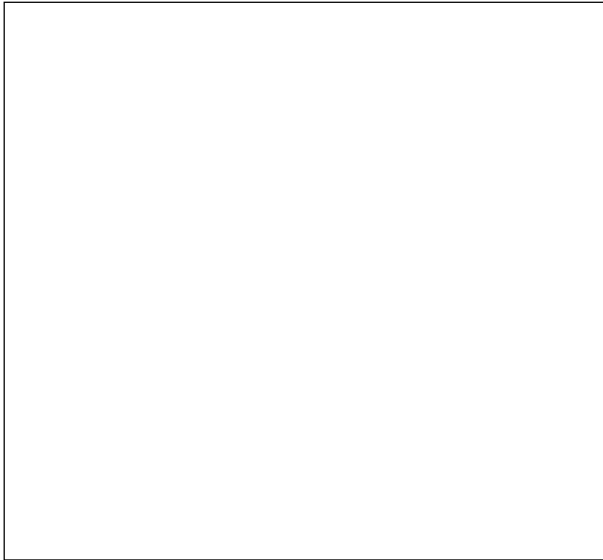
Max. Intensity: 279.33 cd/klm

Pos of Max. Intensity: H22.5 V1

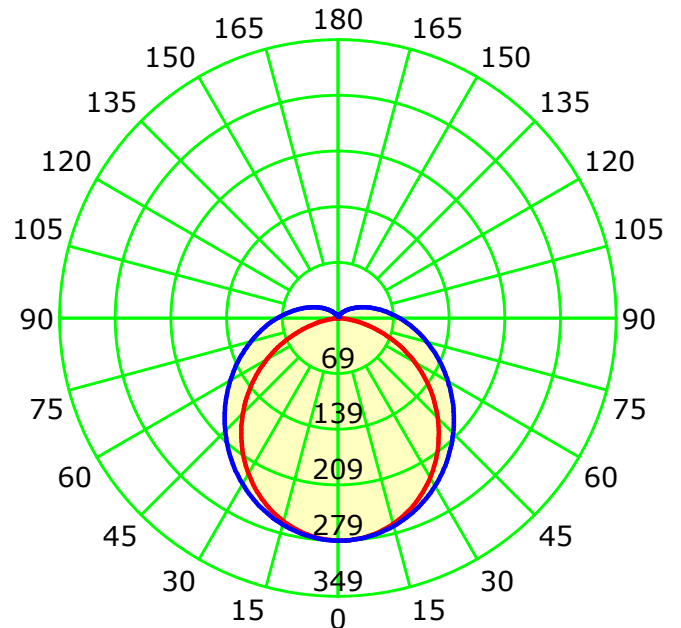
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.29

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd/klm

Average Diffuse Angle(50%): 118.9°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

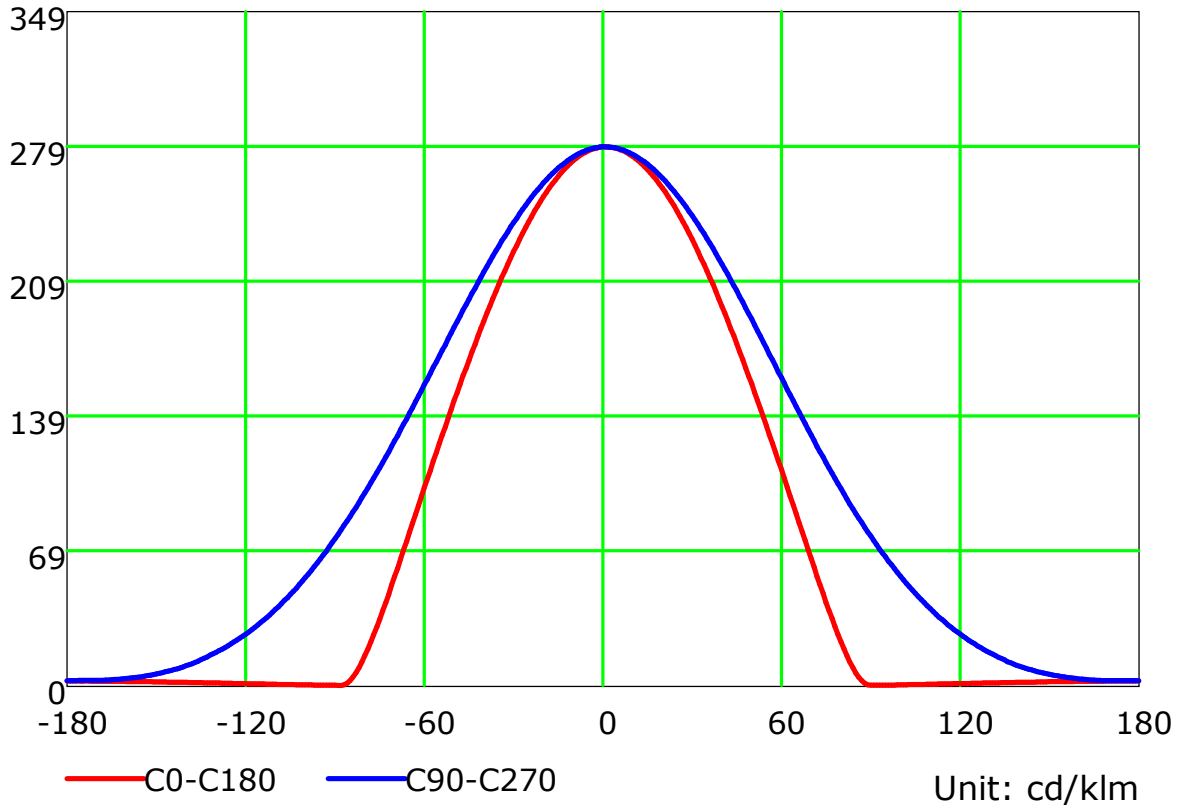
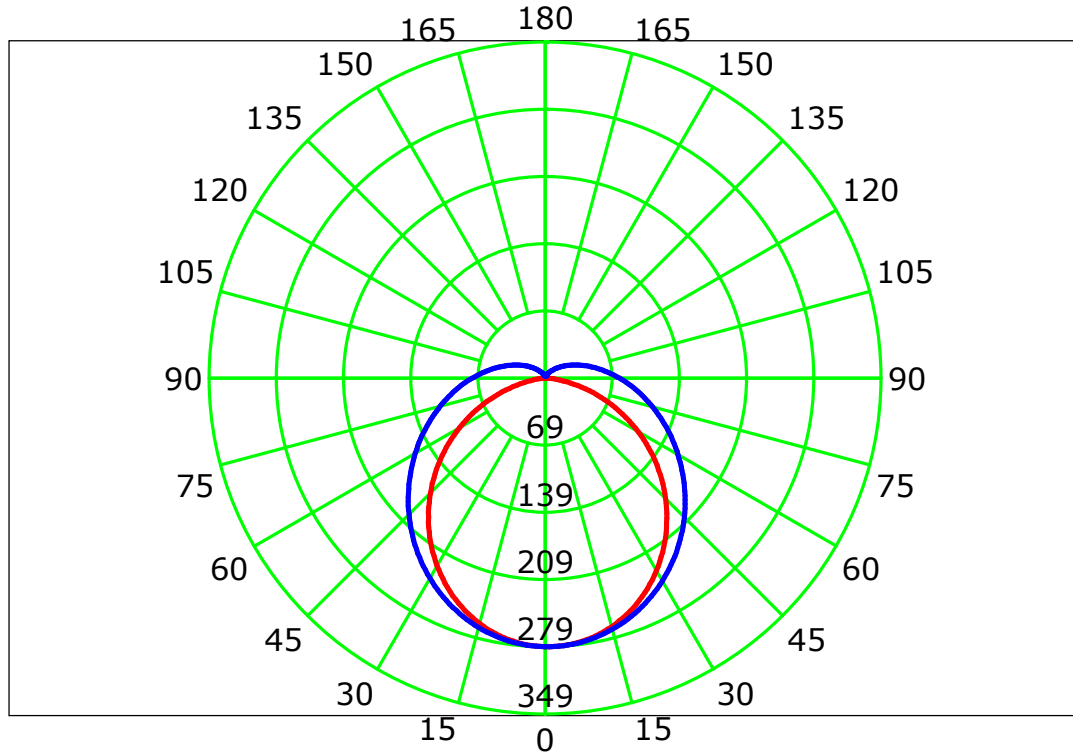
Test Device: LSG-1700B

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: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

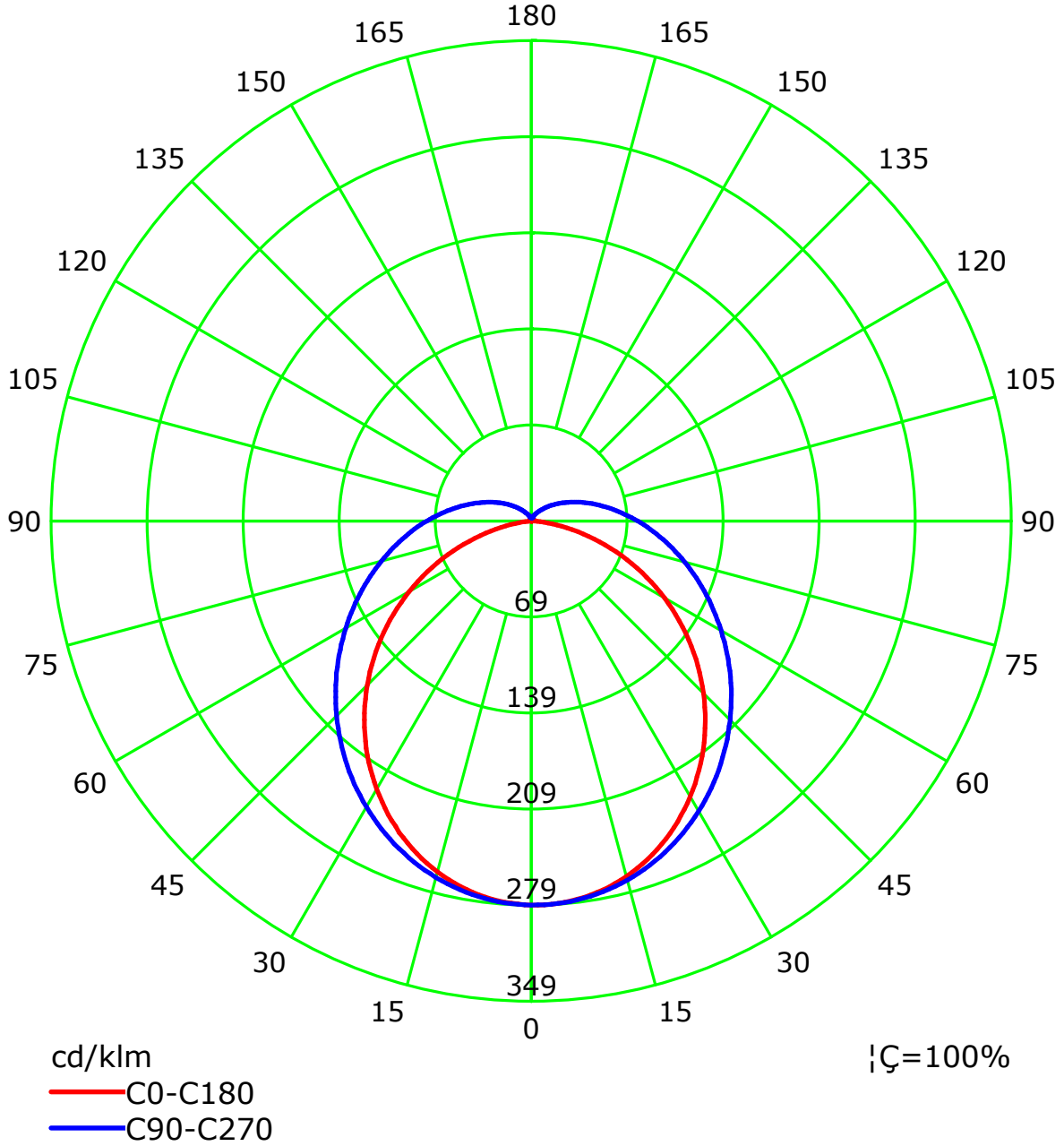
Test Device: LSG-1700B

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: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

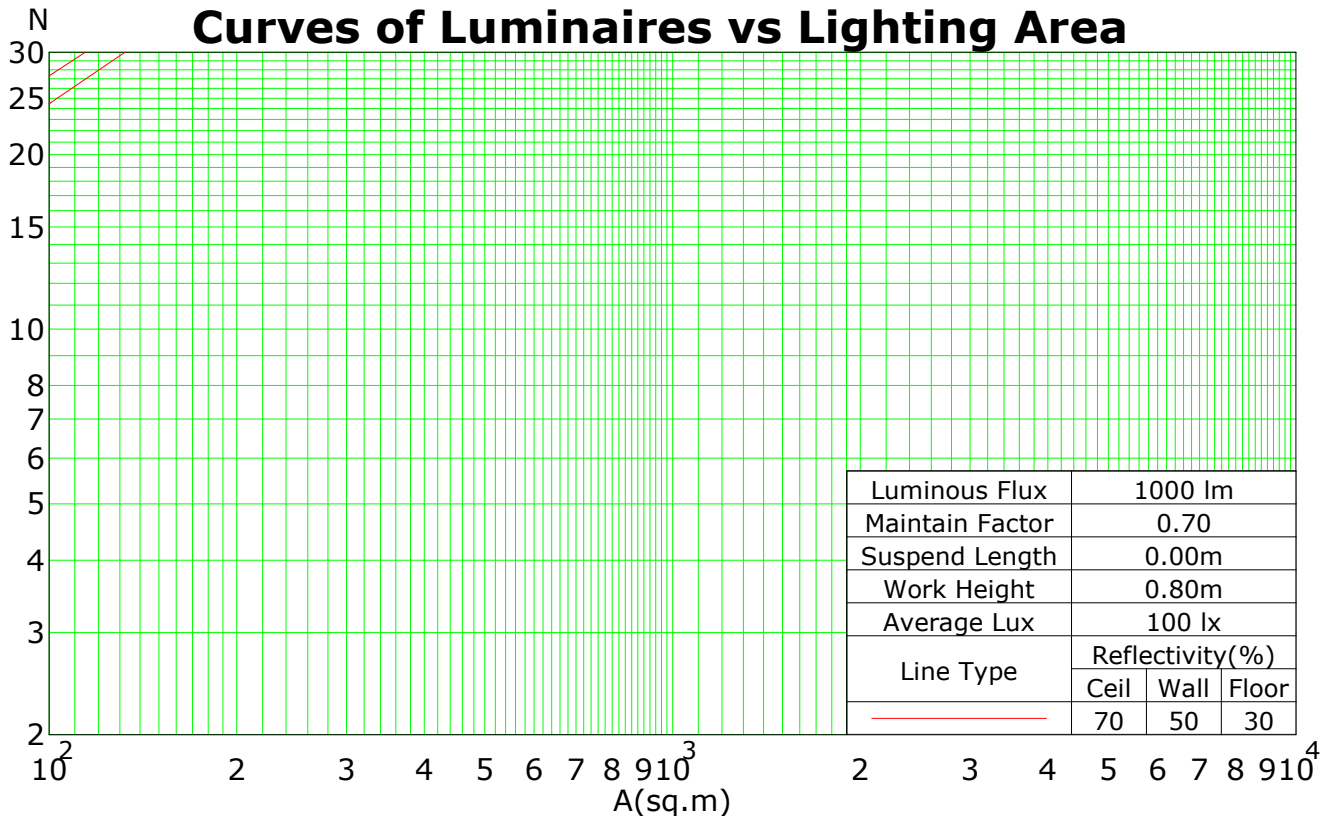
Coefficients Of Utilization - Zonal Cavity Method

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	38	32	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): 1.29

Spacing Criteria (Diagonal): 1.38



C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

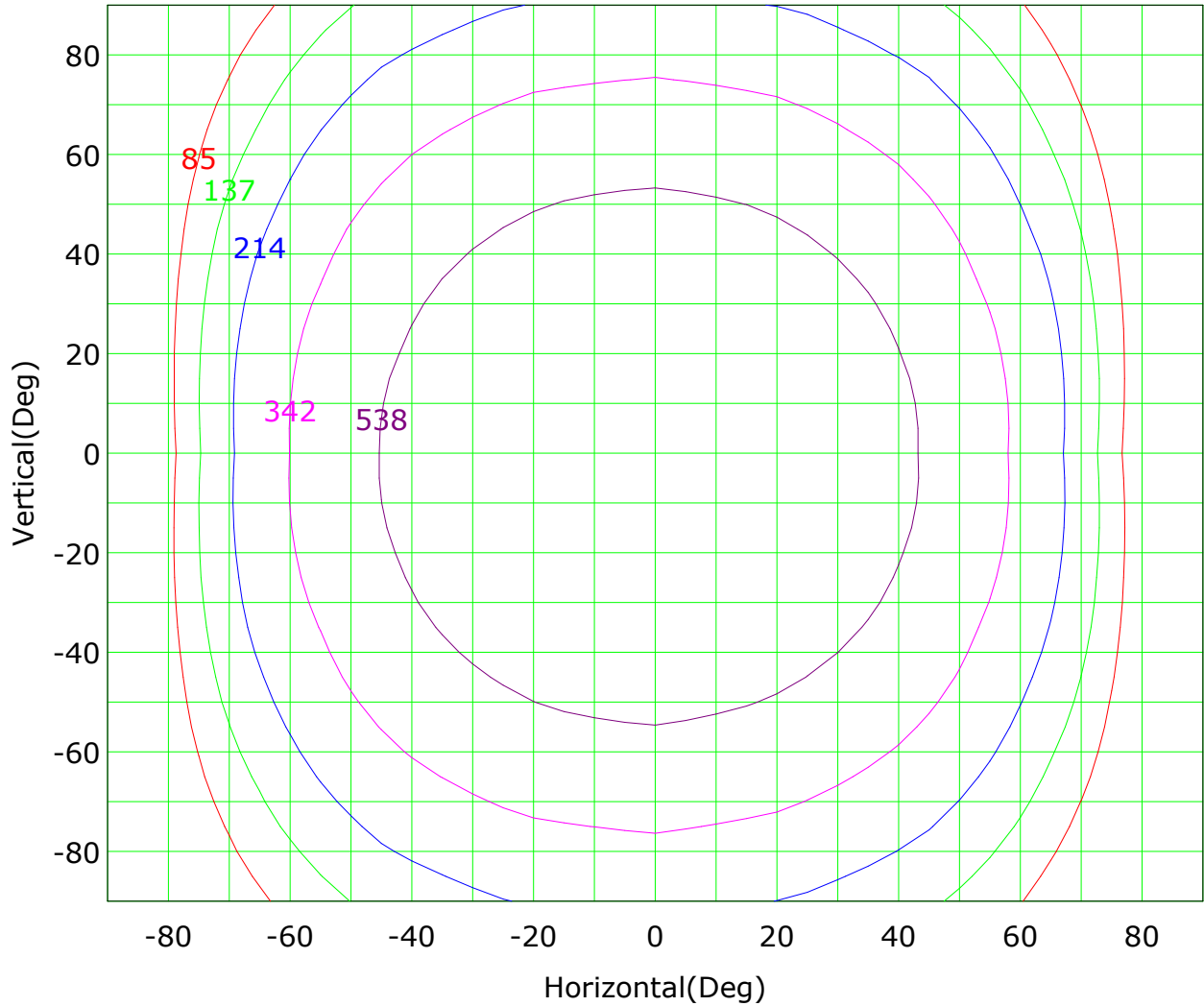
Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

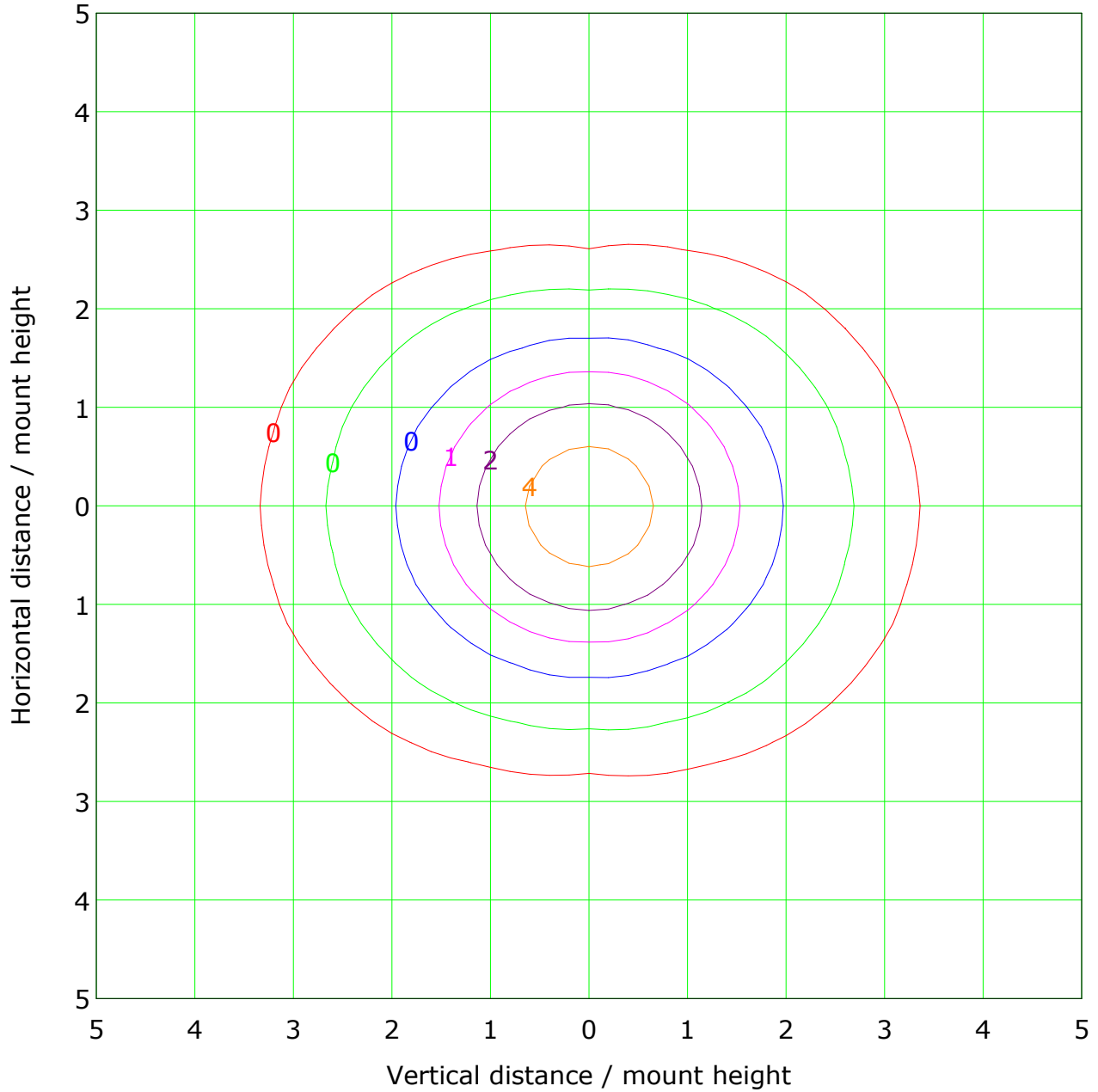
Isocandela (rectangle)



Imax (100%): 854 cd

(10%): 85 cd	(16%): 137 cd
(25%): 214 cd	(40%): 342 cd
(63%): 538 cd	(100%): 854 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 8.5 lx

(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.4 lx	(10%): 0.9 lx
(20%): 1.7 lx	(50%): 4.3 lx
(100%): 8.5 lx	

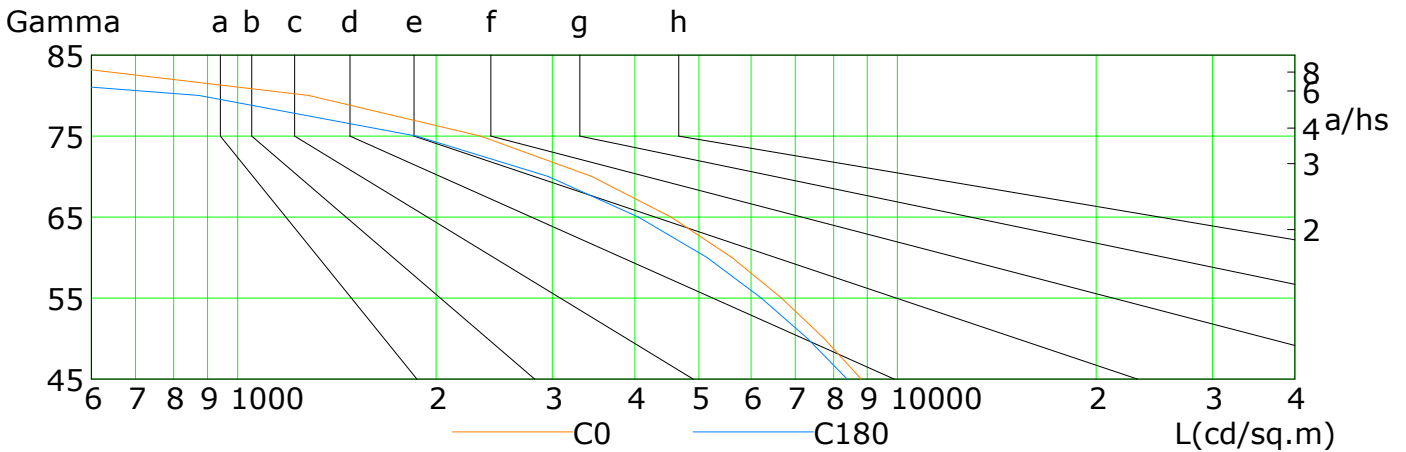
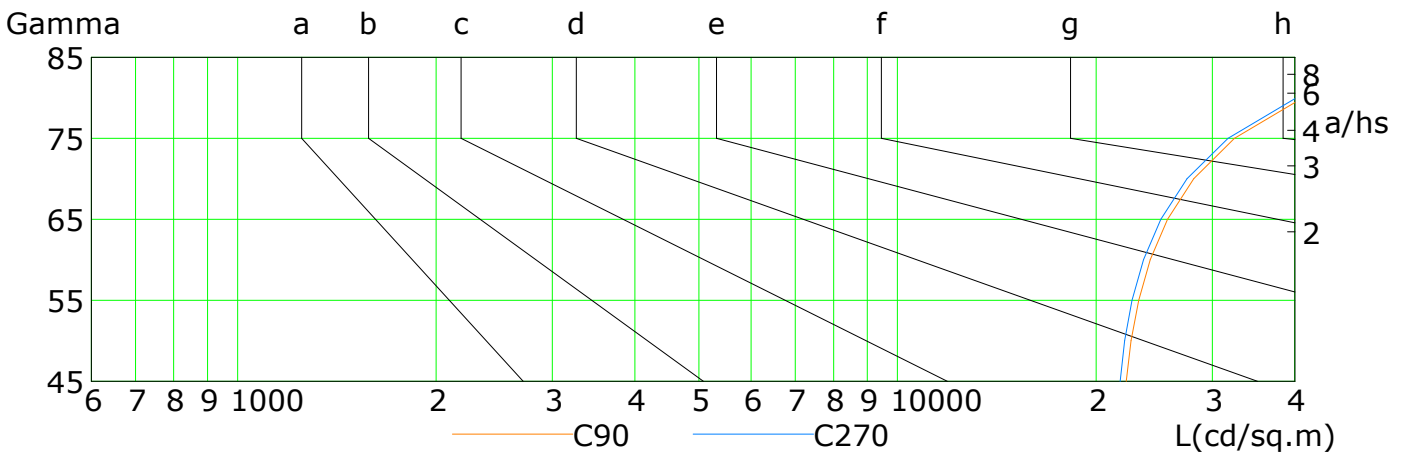
C Plane (°):0.0-360.0: 22.5
 Test Lab: KARMA
 Test Type: TYPE C
 Temperature: 20
 Operator: Ç.KARTALTEPE

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	8813	7742	6673	5612	4539	3440	2335	1281	392
C90	22227	22598	23203	24154	25652	28121	32409	41097	64505
C180	8384	7303	6221	5141	4051	2954	1868	874	150
C270	21742	22093	22660	23590	25072	27463	31693	40215	63277

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

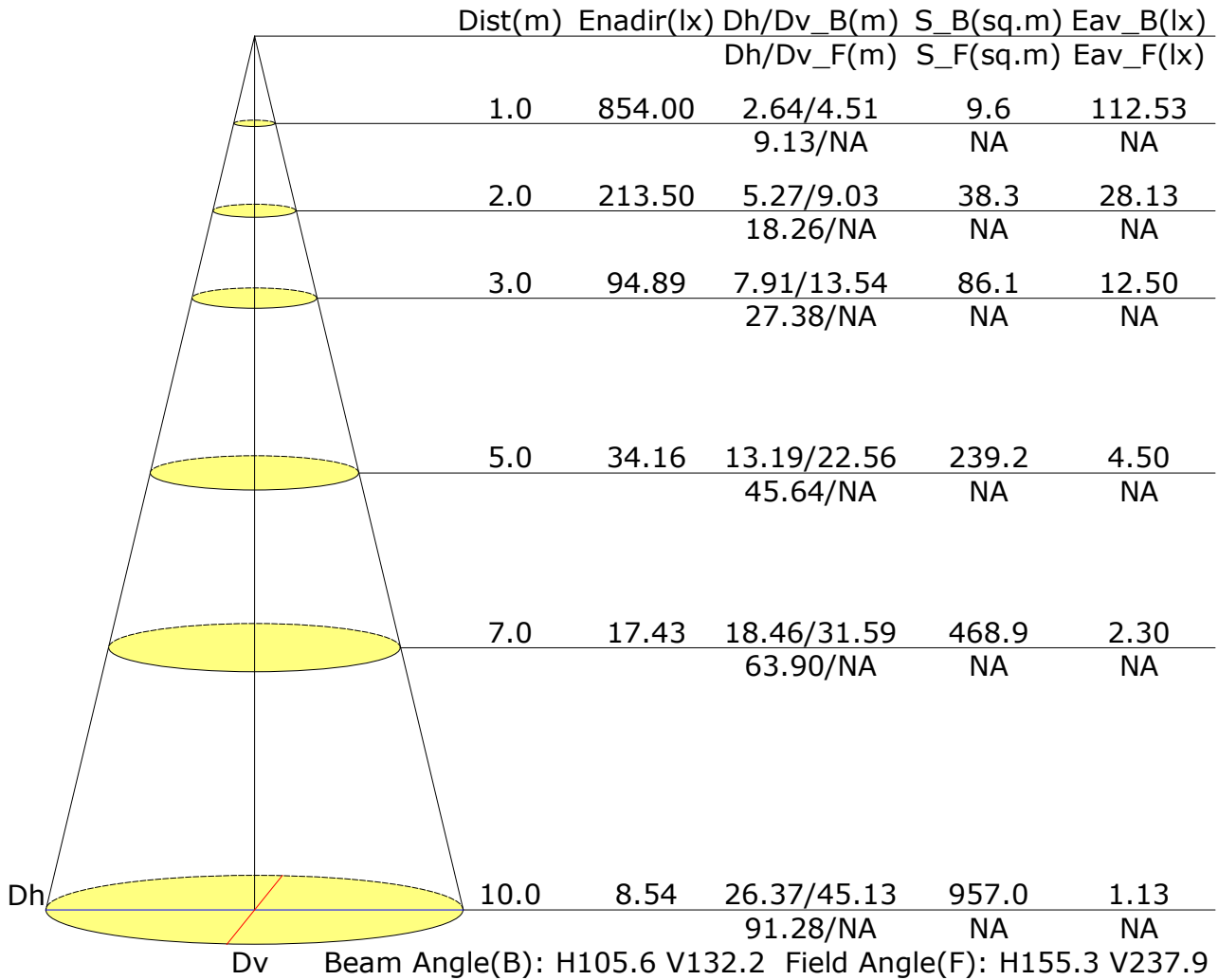
Test Device: LSG-1700B

Distance: 8.942 m

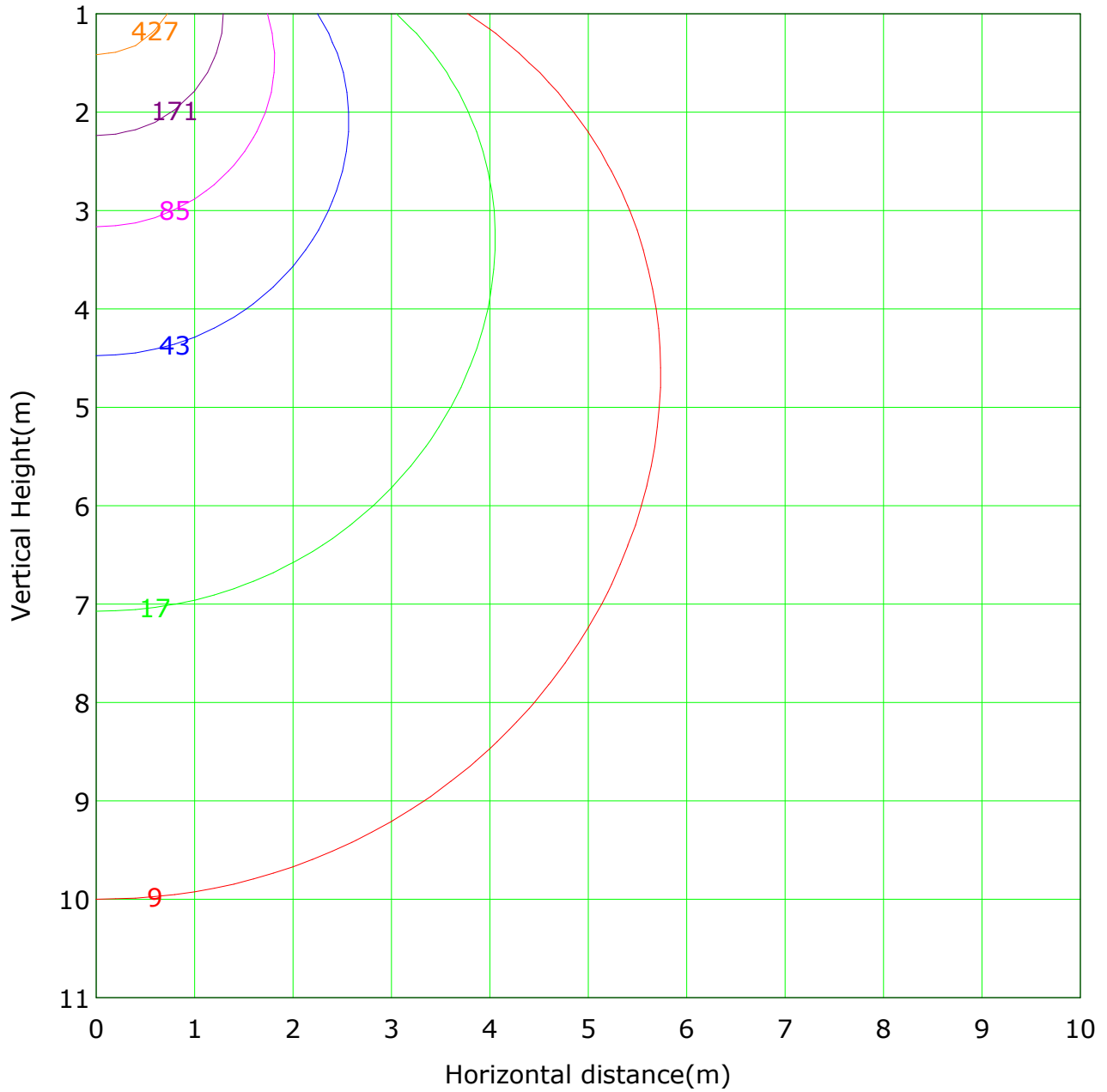
Humidity:

Inspector:

Illuminance at a Distance



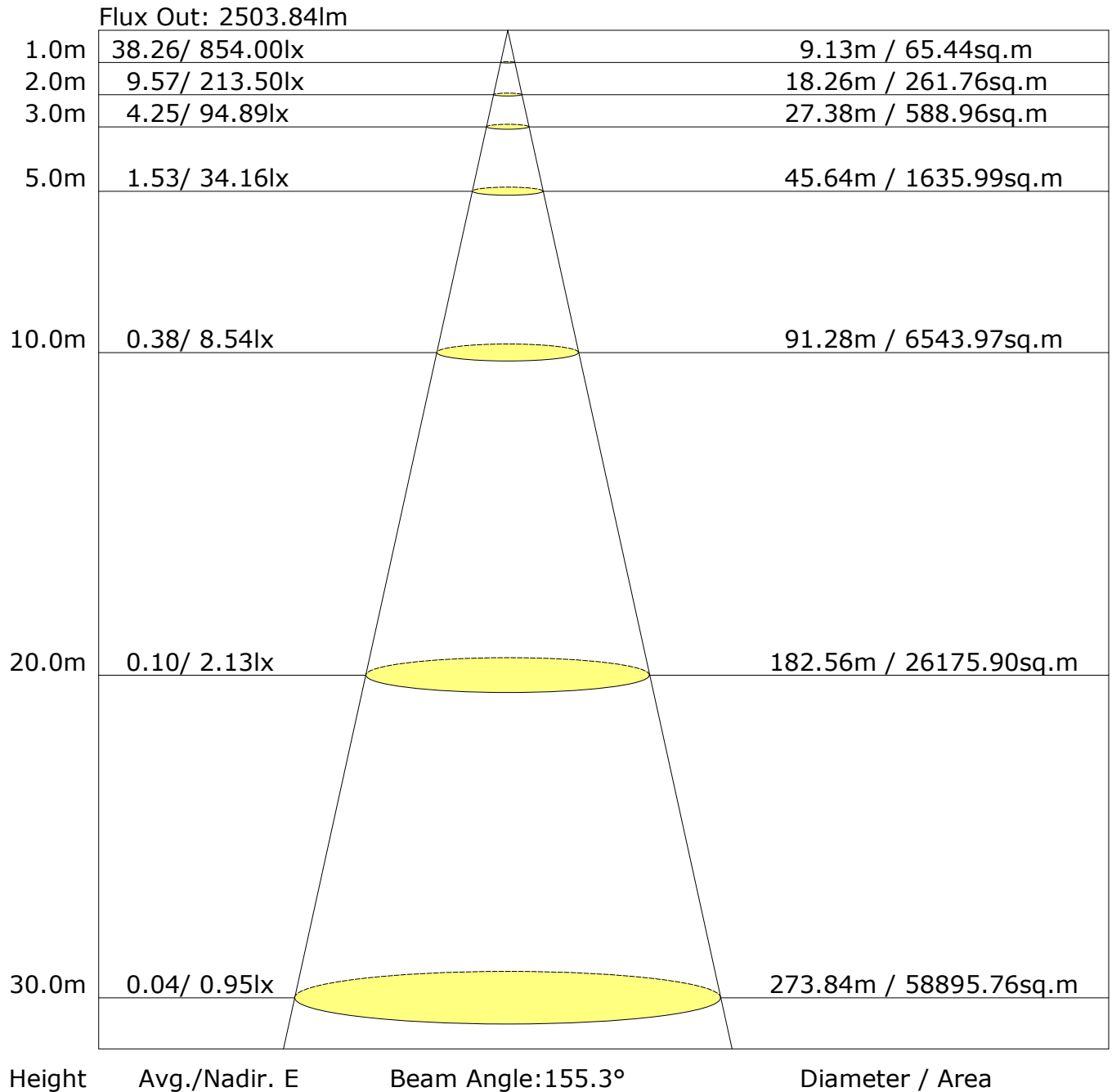
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 854.0 lx

(1%): 8.5 lx	(2%): 17.1 lx
(5%): 42.7 lx	(10%): 85.4 lx
(20%): 170.8 lx	(50%): 427.0 lx
(100%): 854.0 lx	

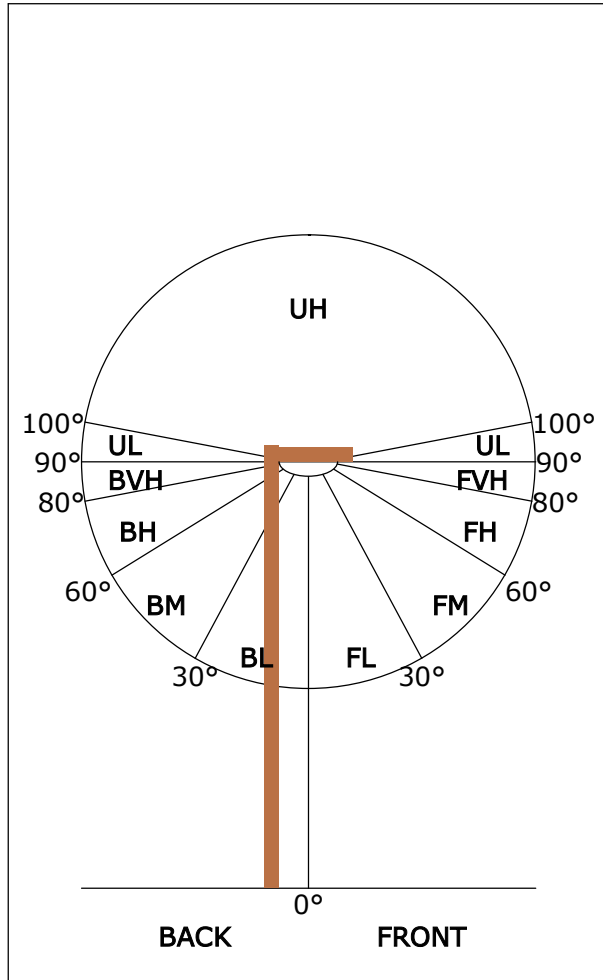
The Average Illuminance Effective Figure



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	18.5	19.8	18.9	20.2	20.7	21.7	23.0	22.2	23.5	23.9
3H	19.4	20.6	19.9	21.1	21.6	24.0	25.2	24.5	25.7	26.2
4H	19.7	20.8	20.2	21.3	21.8	25.3	26.4	25.8	26.9	27.4
6H	19.8	20.9	20.4	21.4	21.9	26.7	27.7	27.2	28.2	28.8
8H	19.8	20.9	20.4	21.4	21.9	27.4	28.4	27.9	28.9	29.5
12H	19.8	20.8	20.3	21.3	21.9	28.2	29.2	28.8	29.7	30.3
X=4H Y=2H	19.4	20.5	19.9	21.0	21.5	22.0	23.1	22.5	23.6	24.1
3H	20.6	21.5	21.1	22.1	22.6	24.5	25.4	25.0	26.0	26.5
4H	21.0	21.9	21.5	22.4	23.0	25.8	26.7	26.4	27.3	27.9
6H	21.2	22.0	21.8	22.6	23.2	27.4	28.2	27.9	28.7	29.3
8H	21.3	22.0	21.8	22.6	23.2	28.2	28.9	28.8	29.5	30.1
12H	21.3	21.9	21.9	22.5	23.2	29.1	29.8	29.7	30.4	31.0
X=8H Y=4H	21.7	22.4	22.3	23.0	23.6	25.9	26.7	26.5	27.2	27.9
6H	22.1	22.7	22.7	23.3	24.0	27.6	28.2	28.2	28.8	29.5
8H	22.3	22.8	22.9	23.4	24.1	28.5	29.1	29.2	29.7	30.4
12H	22.3	22.8	23.0	23.4	24.2	29.6	30.1	30.2	30.7	31.4
X=12H Y=4H	21.9	22.5	22.5	23.1	23.8	25.9	26.6	26.5	27.2	27.8
6H	22.4	23.0	23.1	23.6	24.3	27.6	28.1	28.2	28.8	29.5
8H	22.7	23.1	23.3	23.8	24.5	28.6	29.0	29.2	29.7	30.4
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 3058lm ($8\log(F/F_0) = 3.9$).

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM


ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1391	45.5
FL (0°-30°)	332	10.9
FM (30°-60°)	649	21.2
FH (60°-80°)	316	10.3
FVH (80°-90°)	94	3.1
BACK LIGHT	1352	44.2
BL (0°-30°)	329	10.7
BM (30°-60°)	632	20.7
BH (60°-80°)	301	9.9
BVH (80°-90°)	89	2.9
UP LIGHT	316	10.3
UL (90°-100°)	123	4.0
UH (100°-180°)	193	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: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

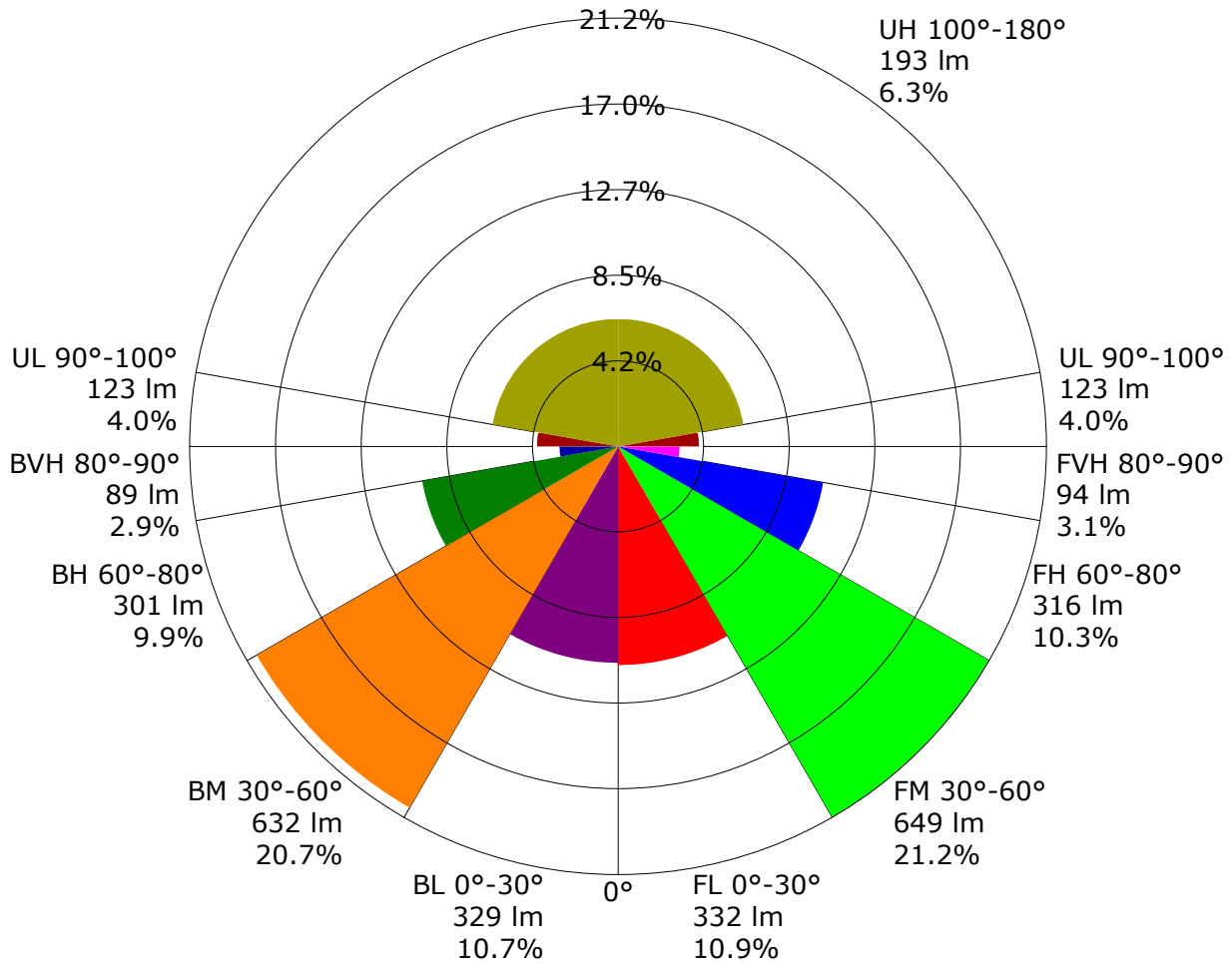
Test Device: LSG-1700B

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	0.87	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		0.40	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	0.46	0.50	0.56	0.61	0.64	0.69	0.72	
<p>Rating:26W 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(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	0.65	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	0.37	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	0.92	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	0.60	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	
Rating:26W 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	0.27	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	
<p>Rating:26W 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>												

Zonal Lumen

Gamma [°]	I _{mean} [cd/klm]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	279.0	0.8	0.8	0.03	0.03
1.0-2.0	278.9	2.4	3.3	0.08	0.11
2.0-3.0	278.7	4.1	7.3	0.13	0.24
3.0-4.0	278.4	5.7	13.0	0.19	0.43
4.0-5.0	278.0	7.3	20.4	0.24	0.67
5.0-6.0	277.4	8.9	29.3	0.29	0.96
6.0-7.0	276.8	10.5	39.8	0.34	1.30
7.0-8.0	276.1	12.1	51.9	0.40	1.70
8.0-9.0	275.3	13.6	65.5	0.45	2.14
9.0-10.0	274.3	15.2	80.7	0.50	2.64
10.0-11.0	273.3	16.7	97.4	0.55	3.18
11.0-12.0	272.1	18.2	115.6	0.59	3.78
12.0-13.0	270.9	19.7	135.3	0.64	4.42
13.0-14.0	269.6	21.1	156.4	0.69	5.11
14.0-15.0	268.1	22.5	178.9	0.74	5.85
15.0-16.0	266.6	23.9	202.8	0.78	6.63
16.0-17.0	265.0	25.2	228.0	0.83	7.46
17.0-18.0	263.3	26.6	254.6	0.87	8.32
18.0-19.0	261.5	27.8	282.4	0.91	9.23
19.0-20.0	259.6	29.1	311.4	0.95	10.18
20.0-21.0	257.6	30.3	341.7	0.99	11.17
21.0-22.0	255.5	31.4	373.1	1.03	12.20
22.0-23.0	253.4	32.5	405.6	1.06	13.26
23.0-24.0	251.2	33.6	439.2	1.10	14.36
24.0-25.0	248.9	34.6	473.8	1.13	15.49
25.0-26.0	246.5	35.6	509.4	1.16	16.66
26.0-27.0	244.0	36.5	545.9	1.19	17.85
27.0-28.0	241.4	37.4	583.3	1.22	19.07
28.0-29.0	238.9	38.2	621.5	1.25	20.32
29.0-30.0	236.2	39.0	660.5	1.28	21.60
30.0-31.0	233.5	39.7	700.3	1.30	22.90
31.0-32.0	230.7	40.4	740.7	1.32	24.22
32.0-33.0	227.8	41.0	781.7	1.34	25.56
33.0-34.0	224.9	41.6	823.4	1.36	26.92
34.0-35.0	221.9	42.2	865.5	1.38	28.30
35.0-36.0	218.9	42.6	908.2	1.39	29.70

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

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	215.8	43.1	951.2	1.41	31.10
37.0-38.0	212.6	43.4	994.6	1.42	32.52
38.0-39.0	209.5	43.7	1038.4	1.43	33.95
39.0-40.0	206.2	44.0	1082.3	1.44	35.39
40.0-41.0	202.8	44.2	1126.5	1.44	36.84
41.0-42.0	199.7	44.4	1170.9	1.45	38.29
42.0-43.0	196.3	44.5	1215.3	1.45	39.74
43.0-44.0	192.8	44.5	1259.9	1.46	41.20
44.0-45.0	189.4	44.5	1304.4	1.46	42.65
45.0-46.0	185.9	44.5	1348.9	1.45	44.11
46.0-47.0	182.5	44.4	1393.3	1.45	45.56
47.0-48.0	179.0	44.2	1437.5	1.45	47.01
48.0-49.0	175.4	44.1	1481.6	1.44	48.45
49.0-50.0	172.0	43.9	1525.4	1.43	49.88
50.0-51.0	168.3	43.6	1569.0	1.42	51.30
51.0-52.0	164.7	43.2	1612.2	1.41	52.72
52.0-53.0	161.1	42.9	1655.0	1.40	54.12
53.0-54.0	157.4	42.4	1697.5	1.39	55.51
54.0-55.0	153.8	42.0	1739.5	1.37	56.88
55.0-56.0	150.2	41.5	1781.0	1.36	58.24
56.0-57.0	146.5	41.0	1822.0	1.34	59.58
57.0-58.0	142.9	40.4	1862.4	1.32	60.90
58.0-59.0	139.2	39.8	1902.2	1.30	62.20
59.0-60.0	135.7	39.2	1941.4	1.28	63.48
60.0-61.0	132.1	38.6	1980.0	1.26	64.74
61.0-62.0	128.4	37.8	2017.8	1.24	65.98
62.0-63.0	124.9	37.1	2054.9	1.21	67.19
63.0-64.0	121.2	36.4	2091.3	1.19	68.38
64.0-65.0	117.6	35.6	2126.9	1.16	69.55
65.0-66.0	114.1	34.8	2161.8	1.14	70.69
66.0-67.0	110.6	34.0	2195.8	1.11	71.80
67.0-68.0	107.1	33.2	2229.0	1.09	72.89
68.0-69.0	103.7	32.4	2261.3	1.06	73.94
69.0-70.0	100.2	31.5	2292.8	1.03	74.97
70.0-71.0	96.9	30.6	2323.4	1.00	75.97
71.0-72.0	93.5	29.7	2353.1	0.97	76.95

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

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	90.1	28.8	2382.0	0.94	77.89
73.0-74.0	86.9	27.9	2409.9	0.91	78.80
74.0-75.0	83.7	27.0	2436.9	0.88	79.69
75.0-76.0	80.5	26.2	2463.1	0.86	80.54
76.0-77.0	77.5	25.3	2488.4	0.83	81.37
77.0-78.0	74.5	24.4	2512.7	0.80	82.16
78.0-79.0	71.5	23.5	2536.2	0.77	82.93
79.0-80.0	68.6	22.6	2558.9	0.74	83.67
80.0-81.0	65.8	21.8	2580.7	0.71	84.39
81.0-82.0	63.2	21.0	2601.6	0.69	85.07
82.0-83.0	60.5	20.1	2621.7	0.66	85.73
83.0-84.0	58.1	19.3	2641.1	0.63	86.36
84.0-85.0	55.6	18.6	2659.7	0.61	86.97
85.0-86.0	53.3	17.8	2677.5	0.58	87.55
86.0-87.0	51.2	17.1	2694.6	0.56	88.11
87.0-88.0	49.2	16.5	2711.1	0.54	88.65
88.0-89.0	47.2	15.8	2726.9	0.52	89.17
89.0-90.0	45.4	15.2	2742.2	0.50	89.67
90.0-91.0	43.7	14.6	2756.8	0.48	90.14
91.0-92.0	42.0	14.1	2770.9	0.46	90.61
92.0-93.0	40.4	13.5	2784.4	0.44	91.05
93.0-94.0	38.8	13.0	2797.4	0.42	91.47
94.0-95.0	37.4	12.5	2809.9	0.41	91.88
95.0-96.0	35.9	12.0	2821.9	0.39	92.27
96.0-97.0	34.5	11.5	2833.4	0.38	92.65
97.0-98.0	33.2	11.0	2844.4	0.36	93.01
98.0-99.0	31.9	10.6	2855.0	0.35	93.36
99.0-100.0	30.7	10.2	2865.2	0.33	93.69
100.0-101.0	29.5	9.7	2874.9	0.32	94.01
101.0-102.0	28.3	9.3	2884.2	0.30	94.31
102.0-103.0	27.3	8.9	2893.1	0.29	94.60
103.0-104.0	26.2	8.5	2901.7	0.28	94.88
104.0-105.0	25.2	8.2	2909.8	0.27	95.15
105.0-106.0	24.2	7.8	2917.7	0.26	95.40
106.0-107.0	23.2	7.5	2925.1	0.24	95.65
107.0-108.0	22.3	7.1	2932.3	0.23	95.88

C Plane (°):0.0-360.0: 22.5
 Test Lab: KARMA
 Test Type: TYPE C
 Temperature: 20
 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	21.4	6.8	2939.1	0.22	96.11
109.0-110.0	20.6	6.5	2945.6	0.21	96.32
110.0-111.0	19.8	6.2	2951.8	0.20	96.52
111.0-112.0	19.0	5.9	2957.7	0.19	96.71
112.0-113.0	18.2	5.6	2963.3	0.18	96.90
113.0-114.0	17.5	5.4	2968.7	0.18	97.07
114.0-115.0	16.8	5.1	2973.8	0.17	97.24
115.0-116.0	16.1	4.9	2978.7	0.16	97.40
116.0-117.0	15.4	4.6	2983.3	0.15	97.55
117.0-118.0	14.8	4.4	2987.7	0.14	97.70
118.0-119.0	14.2	4.2	2991.9	0.14	97.83
119.0-120.0	13.6	4.0	2995.9	0.13	97.96
120.0-121.0	13.0	3.8	2999.6	0.12	98.08
121.0-122.0	12.4	3.6	3003.2	0.12	98.20
122.0-123.0	11.9	3.4	3006.5	0.11	98.31
123.0-124.0	11.4	3.2	3009.7	0.10	98.42
124.0-125.0	11.0	3.0	3012.8	0.10	98.51
125.0-126.0	10.5	2.9	3015.6	0.09	98.61
126.0-127.0	10.0	2.7	3018.3	0.09	98.70
127.0-128.0	9.6	2.5	3020.9	0.08	98.78
128.0-129.0	9.1	2.4	3023.3	0.08	98.86
129.0-130.0	8.7	2.3	3025.5	0.07	98.93
130.0-131.0	8.4	2.1	3027.7	0.07	99.00
131.0-132.0	8.1	2.0	3029.7	0.07	99.07
132.0-133.0	7.7	1.9	3031.6	0.06	99.13
133.0-134.0	7.3	1.8	3033.4	0.06	99.19
134.0-135.0	7.0	1.7	3035.0	0.05	99.24
135.0-136.0	6.7	1.6	3036.6	0.05	99.29
136.0-137.0	6.4	1.5	3038.1	0.05	99.34
137.0-138.0	6.1	1.4	3039.5	0.05	99.39
138.0-139.0	5.8	1.3	3040.8	0.04	99.43
139.0-140.0	5.6	1.2	3042.0	0.04	99.47
140.0-141.0	5.4	1.1	3043.1	0.04	99.51
141.0-142.0	5.2	1.1	3044.2	0.04	99.54
142.0-143.0	5.0	1.0	3045.2	0.03	99.58
143.0-144.0	4.8	0.9	3046.2	0.03	99.61

C Plane (°):0.0-360.0: 22.5
 Test Lab: KARMA
 Test Type: TYPE C
 Temperature: 20
 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	4.6	0.9	3047.1	0.03	99.64
145.0-146.0	4.4	0.8	3047.9	0.03	99.66
146.0-147.0	4.2	0.8	3048.7	0.03	99.69
147.0-148.0	4.0	0.7	3049.4	0.02	99.71
148.0-149.0	3.9	0.7	3050.1	0.02	99.74
149.0-150.0	3.7	0.6	3050.7	0.02	99.76
150.0-151.0	3.6	0.6	3051.3	0.02	99.78
151.0-152.0	3.5	0.6	3051.9	0.02	99.79
152.0-153.0	3.4	0.5	3052.4	0.02	99.81
153.0-154.0	3.3	0.5	3052.9	0.02	99.83
154.0-155.0	3.2	0.5	3053.4	0.02	99.84
155.0-156.0	3.1	0.4	3053.8	0.01	99.86
156.0-157.0	3.0	0.4	3054.2	0.01	99.87
157.0-158.0	2.9	0.4	3054.6	0.01	99.88
158.0-159.0	2.9	0.4	3054.9	0.01	99.89
159.0-160.0	2.8	0.3	3055.2	0.01	99.90
160.0-161.0	2.7	0.3	3055.6	0.01	99.91
161.0-162.0	2.7	0.3	3055.8	0.01	99.92
162.0-163.0	2.6	0.3	3056.1	0.01	99.93
163.0-164.0	2.6	0.2	3056.3	0.01	99.94
164.0-165.0	2.5	0.2	3056.6	0.01	99.95
165.0-166.0	2.5	0.2	3056.8	0.01	99.95
166.0-167.0	2.5	0.2	3057.0	0.01	99.96
167.0-168.0	2.5	0.2	3057.2	0.01	99.97
168.0-169.0	2.5	0.2	3057.3	0.01	99.97
169.0-170.0	2.4	0.1	3057.5	0.00	99.98
170.0-171.0	2.4	0.1	3057.6	0.00	99.98
171.0-172.0	2.4	0.1	3057.7	0.00	99.99
172.0-173.0	2.4	0.1	3057.8	0.00	99.99
173.0-174.0	2.4	0.1	3057.9	0.00	99.99
174.0-175.0	2.4	0.1	3058.0	0.00	99.99
175.0-176.0	2.4	0.1	3058.1	0.00	100.00
176.0-177.0	2.4	0.0	3058.1	0.00	100.00
177.0-178.0	2.4	0.0	3058.2	0.00	100.00
178.0-179.0	2.4	0.0	3058.2	0.00	100.00
179.0-180.0	2.4	0.0	3058.2	0.00	100.00

C Plane (°):0.0-360.0: 22.5
 Test Lab: KARMA
 Test Type: TYPE C
 Temperature: 20
 Operator: Ç.KARTALTEPE

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

**KARMA Lighting**<http://www.karmalighting.com>

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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	279.3	279.3	279.0	279.0	279.2	278.9	278.9	279.1	279.3	279.3
G1.0	279.2	279.3	279.0	279.0	279.2	278.9	278.8	278.9	279.0	279.1
G2.0	279.1	279.3	279.0	278.9	279.1	278.8	278.7	278.8	278.7	278.8
G3.0	278.9	279.1	278.9	278.9	278.9	278.5	278.4	278.3	278.2	278.4
G4.0	278.6	278.8	278.6	278.6	278.7	278.1	278.0	277.8	277.8	277.9
G5.0	278.2	278.4	278.4	278.4	278.4	277.8	277.4	277.2	277.1	277.2
G6.0	277.6	277.9	277.8	277.8	278.0	277.2	276.8	276.5	276.3	276.4
G7.0	277.0	277.3	277.3	277.4	277.4	276.7	276.2	275.8	275.4	275.5
G8.0	276.3	276.6	276.7	276.8	276.8	276.0	275.4	274.9	274.4	274.5
G9.0	275.3	275.6	275.8	276.1	276.1	275.2	274.4	273.8	273.2	273.5
G10.0	274.3	274.8	274.9	275.3	275.3	274.2	273.4	272.8	272.0	272.3
G11.0	273.2	273.5	274.0	274.3	274.4	273.3	272.2	271.3	270.6	270.9
G12.0	272.0	272.4	272.9	273.5	273.5	272.3	271.1	270.0	269.1	269.4
G13.0	270.6	271.2	271.7	272.4	272.5	271.2	269.9	268.7	267.6	267.9
G14.0	269.0	269.7	270.5	271.2	271.4	269.9	268.3	266.8	265.8	266.3
G15.0	267.5	268.1	269.1	270.0	270.2	268.6	267.0	265.3	264.0	264.6
G16.0	265.9	266.7	267.7	268.8	269.0	267.3	265.4	263.5	262.1	262.5
G17.0	263.8	264.8	266.1	267.2	267.6	265.7	263.5	261.5	260.0	260.7
G18.0	262.1	263.0	264.4	265.9	266.1	264.2	261.8	259.5	258.0	258.7
G19.0	260.0	260.9	262.6	264.2	264.6	262.5	259.8	257.5	255.7	256.5
G20.0	257.9	259.0	260.9	262.7	263.1	260.8	257.9	255.2	253.3	254.2
G21.0	255.8	257.0	259.0	261.0	261.5	259.0	255.9	253.0	250.9	251.7
G22.0	253.3	254.5	256.9	259.2	259.7	257.0	253.7	250.6	248.4	249.3
G23.0	251.0	252.3	254.9	257.3	257.9	255.2	251.6	248.1	246.0	247.1
G24.0	248.5	250.0	252.7	255.6	256.1	253.3	249.3	245.7	242.9	244.2
G25.0	245.7	247.2	250.4	253.3	254.1	251.0	246.7	242.9	240.3	241.7
G26.0	243.1	244.8	248.1	251.4	252.2	249.0	244.4	240.1	237.5	238.9
G27.0	240.1	242.1	245.5	249.1	250.0	246.6	241.7	237.2	234.4	235.9
G28.0	237.4	239.3	243.2	247.0	248.1	244.4	239.2	234.3	231.3	232.9
G29.0	234.5	236.7	240.7	244.8	245.8	242.2	236.7	231.4	228.0	229.8
G30.0	231.3	233.6	237.9	242.5	243.6	239.6	233.7	228.3	225.1	226.9
G31.0	228.2	230.5	235.4	240.0	241.3	237.3	231.1	225.2	221.7	223.8
G32.0	225.0	227.6	232.6	237.6	239.0	234.8	228.3	222.1	218.3	220.5
G33.0	221.6	224.3	229.6	234.9	236.5	232.2	225.1	218.6	214.9	217.2
G34.0	218.4	221.1	226.9	232.6	234.2	229.5	222.4	215.4	211.6	214.0
G35.0	214.9	217.8	223.7	229.9	231.6	226.7	219.2	211.8	207.9	210.3
G36.0	211.4	214.4	220.9	227.2	229.3	224.2	216.1	208.5	204.3	207.0

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

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 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	208.1	211.2	217.9	224.7	226.7	221.5	213.2	205.0	200.5	203.3
G38.0	204.3	207.5	214.6	221.8	223.9	218.5	209.8	201.3	196.7	199.8
G39.0	200.5	204.0	211.7	219.0	221.2	215.7	206.7	197.7	193.1	196.1
G40.0	196.6	200.4	208.1	216.0	218.4	212.7	203.1	193.8	188.8	192.2
G41.0	193.1	196.8	205.1	213.3	215.8	210.0	200.0	190.2	185.2	188.4
G42.0	189.2	193.2	202.0	210.5	213.2	207.1	196.8	186.5	181.2	184.9
G43.0	185.0	189.4	198.4	207.4	210.2	203.9	193.1	182.6	177.0	180.9
G44.0	181.3	185.6	195.2	204.5	207.3	201.1	189.9	178.7	172.9	177.1
G45.0	177.3	182.0	191.9	201.7	204.7	198.1	186.5	175.1	168.7	173.1
G46.0	173.2	177.8	188.4	198.5	201.6	194.9	182.9	170.8	164.5	169.2
G47.0	169.0	174.1	185.0	195.4	198.8	191.9	179.7	167.0	160.6	165.4
G48.0	164.7	169.8	181.4	192.2	195.7	188.7	175.8	162.7	156.1	161.1
G49.0	160.5	166.1	178.0	189.2	192.9	185.5	172.6	159.0	151.9	157.3
G50.0	156.5	162.2	174.7	186.3	190.0	182.5	169.1	154.9	147.7	153.4
G51.0	151.9	157.8	170.8	183.0	186.8	179.1	165.3	150.6	143.0	149.1
G52.0	147.8	154.0	167.4	179.9	183.9	176.3	161.9	146.6	138.7	145.1
G53.0	143.5	150.2	164.1	176.9	181.0	173.1	158.4	142.5	134.2	140.9
G54.0	139.0	145.8	160.2	173.6	177.7	169.7	154.7	138.3	129.8	136.8
G55.0	134.6	141.7	156.9	170.4	174.9	166.7	151.2	134.2	125.5	132.8
G56.0	129.9	137.4	153.3	167.1	171.6	163.4	147.5	129.9	120.8	128.4
G57.0	125.5	133.6	149.8	164.1	168.7	160.3	144.0	126.0	116.4	124.5
G58.0	121.0	129.5	146.3	160.9	165.7	157.2	140.6	121.9	111.4	120.2
G59.0	116.5	125.0	142.5	157.7	162.4	154.0	137.0	117.5	107.2	116.3
G60.0	112.1	121.1	139.2	154.7	159.7	150.9	133.5	113.4	102.7	112.2
G61.0	107.4	117.2	135.8	151.6	156.7	147.8	130.2	109.5	97.9	108.0
G62.0	102.7	112.8	132.2	148.4	153.4	144.6	126.5	105.1	93.3	104.0
G63.0	98.2	108.9	128.8	145.2	150.6	141.6	123.3	101.3	88.8	100.1
G64.0	93.4	104.5	125.2	142.0	147.5	138.4	119.6	96.9	84.1	95.8
G65.0	89.0	100.7	121.8	139.0	144.6	135.3	116.3	93.1	79.5	92.1
G66.0	84.4	96.7	118.7	136.1	141.7	132.5	113.1	89.3	74.7	87.8
G67.0	79.5	92.6	115.1	132.9	138.5	129.2	109.5	85.1	70.2	84.1
G68.0	75.2	88.7	111.9	130.0	135.7	126.4	106.5	81.3	65.6	80.4
G69.0	70.6	84.9	108.8	127.0	132.8	123.5	103.4	77.5	60.9	76.2
G70.0	65.7	80.9	105.3	123.8	129.8	120.3	100.0	73.5	56.5	72.7
G71.0	61.5	77.1	102.2	120.9	127.0	117.4	97.0	69.9	52.1	69.2
G72.0	56.5	73.1	98.9	117.9	123.9	114.5	93.7	66.0	47.3	65.4
G73.0	52.3	69.6	95.8	115.0	121.2	111.6	90.8	62.6	43.1	62.1

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

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	47.9	66.1	92.8	112.3	118.6	108.9	87.8	59.2	38.7	58.3
G75.0	43.1	62.4	89.6	109.3	115.5	105.8	84.6	55.7	34.5	55.2
G76.0	39.1	59.0	86.9	106.6	112.8	103.3	82.0	52.4	30.4	52.0
G77.0	34.9	55.6	83.9	103.9	110.1	100.6	79.2	49.4	26.4	48.9
G78.0	30.5	52.2	81.0	100.9	107.4	97.8	76.2	46.1	22.6	45.9
G79.0	26.6	49.1	78.2	98.4	104.8	95.1	73.6	43.3	19.1	43.1
G80.0	22.6	46.0	75.4	95.6	102.0	92.5	70.9	40.3	15.4	40.1
G81.0	19.2	43.1	72.7	93.0	99.5	89.9	68.4	37.7	12.2	37.6
G82.0	15.7	40.4	70.3	90.6	96.9	87.5	65.9	35.1	9.1	34.9
G83.0	12.3	37.7	67.5	87.7	94.2	84.8	63.3	32.6	6.7	32.6
G84.0	9.4	35.2	65.1	85.4	91.7	82.5	60.9	30.4	4.4	30.4
G85.0	6.6	32.5	62.5	82.8	89.2	79.9	58.5	28.0	2.5	28.1
G86.0	4.4	30.4	60.2	80.3	86.8	77.7	56.4	25.9	1.2	26.2
G87.0	2.6	28.2	57.9	78.2	84.6	75.4	54.2	24.0	0.4	24.5
G88.0	1.2	26.1	55.6	75.6	82.0	72.9	52.0	22.1	0.1	22.6
G89.0	0.4	24.2	53.5	73.4	79.7	70.8	50.0	20.5	0.2	21.0
G90.0	0.2	22.4	51.4	71.2	77.6	68.7	47.9	18.9	0.2	19.4
G91.0	0.2	20.5	49.2	68.9	75.2	66.3	45.9	17.3	0.2	18.1
G92.0	0.2	18.9	47.2	66.8	73.0	64.4	44.1	15.9	0.2	16.8
G93.0	0.2	17.4	45.2	64.5	70.8	62.1	42.1	14.7	0.2	15.5
G94.0	0.2	15.9	43.4	62.6	68.7	60.2	40.5	13.6	0.2	14.5
G95.0	0.3	14.8	41.6	60.6	66.7	58.3	38.8	12.7	0.3	13.5
G96.0	0.3	13.7	39.7	58.4	64.5	56.2	37.2	11.7	0.3	12.5
G97.0	0.3	12.7	38.1	56.7	62.6	54.4	35.6	10.9	0.3	11.7
G98.0	0.3	11.9	36.5	54.7	60.6	52.6	34.1	10.2	0.4	10.8
G99.0	0.4	11.0	34.9	52.8	58.6	50.8	32.5	9.5	0.4	10.2
G100.0	0.4	10.2	33.4	51.1	56.7	49.0	31.2	8.9	0.4	9.5
G101.0	0.4	9.5	31.8	49.1	54.8	47.1	29.9	8.2	0.4	8.9
G102.0	0.5	8.9	30.5	47.5	53.1	45.5	28.5	7.7	0.4	8.4
G103.0	0.5	8.4	29.3	45.9	51.3	44.0	27.3	7.2	0.5	7.8
G104.0	0.5	7.8	27.9	44.1	49.5	42.3	26.0	6.8	0.5	7.4
G105.0	0.6	7.4	26.7	42.5	47.9	40.8	24.9	6.4	0.5	7.0
G106.0	0.6	6.9	25.5	40.9	46.2	39.3	23.9	6.1	0.6	6.6
G107.0	0.6	6.4	24.3	39.4	44.5	37.8	22.8	5.7	0.6	6.2
G108.0	0.6	6.1	23.3	37.9	43.0	36.3	21.8	5.4	0.7	6.0
G109.0	0.7	5.8	22.2	36.4	41.3	34.9	20.7	5.2	0.7	5.6
G110.0	0.7	5.5	21.2	35.1	39.8	33.6	19.9	4.9	0.7	5.4

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

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	0.8	5.3	20.3	33.7	38.4	32.4	19.0	4.7	0.7	5.1
G112.0	0.8	5.0	19.3	32.3	36.9	31.0	18.0	4.5	0.8	4.9
G113.0	0.8	4.8	18.5	31.0	35.5	29.8	17.3	4.3	0.8	4.7
G114.0	0.9	4.6	17.6	29.9	34.2	28.7	16.6	4.1	0.9	4.5
G115.0	0.9	4.4	16.8	28.7	32.8	27.4	15.7	4.0	0.9	4.3
G116.0	0.9	4.2	16.0	27.5	31.5	26.3	15.1	3.8	0.9	4.1
G117.0	1.0	4.0	15.2	26.3	30.3	25.1	14.4	3.7	0.9	3.9
G118.0	1.0	3.9	14.4	25.2	29.0	24.2	13.7	3.5	1.0	3.8
G119.0	1.0	3.7	13.6	24.2	27.9	23.2	13.1	3.3	1.0	3.6
G120.0	1.1	3.5	12.7	23.1	26.7	22.1	12.5	3.2	1.0	3.5
G121.0	1.1	3.4	12.0	22.1	25.7	21.2	11.9	3.1	1.1	3.4
G122.0	1.1	3.3	11.5	21.3	24.6	20.3	11.4	3.0	1.1	3.3
G123.0	1.2	3.2	11.0	20.3	23.5	19.3	10.9	2.9	1.1	3.2
G124.0	1.2	3.1	10.6	19.3	22.5	18.5	10.4	2.9	1.1	3.1
G125.0	1.2	3.0	10.2	18.5	21.6	17.6	9.6	2.8	1.2	3.0
G126.0	1.2	3.0	9.5	17.6	20.5	16.8	9.2	2.8	1.2	3.0
G127.0	1.3	2.9	9.0	16.9	19.7	16.1	8.7	2.7	1.3	2.9
G128.0	1.3	2.8	8.4	16.1	18.7	15.4	8.3	2.6	1.3	2.8
G129.0	1.4	2.8	7.8	15.4	17.9	14.7	8.0	2.6	1.3	2.8
G130.0	1.4	2.7	7.8	14.6	17.0	13.9	7.6	2.5	1.4	2.7
G131.0	1.4	2.7	7.6	13.9	16.3	13.3	7.3	2.5	1.4	2.7
G132.0	1.5	2.6	7.3	13.3	15.5	12.7	7.0	2.4	1.4	2.6
G133.0	1.5	2.5	7.0	12.4	14.8	11.7	6.7	2.4	1.4	2.6
G134.0	1.5	2.5	6.7	11.7	14.0	11.2	6.4	2.4	1.5	2.6
G135.0	1.5	2.5	6.4	11.1	13.3	10.6	6.2	2.4	1.5	2.5
G136.0	1.6	2.4	6.1	10.5	12.4	10.1	5.9	2.3	1.5	2.5
G137.0	1.6	2.4	5.9	10.0	11.8	9.6	5.7	2.3	1.6	2.5
G138.0	1.7	2.4	5.6	9.4	11.2	9.1	5.4	2.3	1.6	2.5
G139.0	1.7	2.3	5.4	8.7	10.6	8.6	5.2	2.3	1.6	2.4
G140.0	1.7	2.3	5.1	8.3	10.1	8.2	5.0	2.3	1.7	2.4
G141.0	1.7	2.3	4.9	7.9	9.5	7.8	4.8	2.2	1.7	2.4
G142.0	1.7	2.3	4.7	7.5	9.1	7.4	4.6	2.2	1.7	2.4
G143.0	1.8	2.2	4.5	7.2	8.6	7.1	4.4	2.2	1.8	2.4
G144.0	1.8	2.2	4.3	6.8	8.1	6.7	4.3	2.2	1.8	2.4
G145.0	1.8	2.2	4.0	6.5	7.7	6.4	4.2	2.2	1.8	2.4
G146.0	1.9	2.2	3.9	6.2	7.3	6.0	4.0	2.2	1.8	2.3
G147.0	1.9	2.2	3.7	5.9	7.0	5.7	3.8	2.2	1.9	2.3

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

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	1.9	2.2	3.5	5.6	6.6	5.4	3.7	2.2	1.9	2.3
G149.0	1.9	2.2	3.4	5.3	6.2	5.2	3.6	2.2	1.9	2.3
G150.0	2.0	2.2	3.3	5.1	5.9	4.9	3.5	2.2	1.9	2.3
G151.0	2.0	2.2	3.1	4.8	5.6	4.7	3.4	2.2	1.9	2.3
G152.0	2.0	2.2	3.1	4.5	5.3	4.4	3.2	2.2	2.0	2.3
G153.0	2.1	2.2	3.0	4.4	5.0	4.2	3.2	2.2	2.0	2.3
G154.0	2.1	2.2	2.9	4.1	4.8	4.0	3.1	2.2	2.0	2.3
G155.0	2.1	2.2	2.9	4.0	4.5	3.8	3.0	2.2	2.0	2.3
G156.0	2.1	2.2	2.8	3.8	4.3	3.6	2.9	2.2	2.1	2.3
G157.0	2.1	2.2	2.7	3.5	4.1	3.5	2.8	2.2	2.1	2.3
G158.0	2.1	2.2	2.7	3.4	3.9	3.4	2.8	2.2	2.1	2.3
G159.0	2.2	2.2	2.6	3.3	3.7	3.2	2.7	2.2	2.1	2.3
G160.0	2.2	2.2	2.5	3.1	3.5	3.1	2.7	2.2	2.1	2.4
G161.0	2.2	2.2	2.5	3.0	3.3	3.0	2.6	2.2	2.2	2.3
G162.0	2.2	2.2	2.4	2.8	3.2	2.9	2.6	2.3	2.2	2.3
G163.0	2.2	2.2	2.4	2.8	3.1	2.8	2.5	2.3	2.2	2.4
G164.0	2.3	2.2	2.4	2.7	3.0	2.7	2.5	2.3	2.2	2.4
G165.0	2.3	2.3	2.3	2.6	2.9	2.6	2.5	2.2	2.2	2.4
G166.0	2.3	2.3	2.4	2.6	2.8	2.5	2.5	2.3	2.2	2.4
G167.0	2.3	2.3	2.3	2.5	2.7	2.5	2.5	2.3	2.3	2.4
G168.0	2.3	2.3	2.3	2.5	2.6	2.4	2.5	2.3	2.3	2.4
G169.0	2.3	2.3	2.3	2.5	2.6	2.4	2.5	2.4	2.2	2.4
G170.0	2.3	2.3	2.3	2.4	2.6	2.4	2.5	2.3	2.3	2.4
G171.0	2.4	2.3	2.3	2.4	2.5	2.4	2.4	2.4	2.3	2.4
G172.0	2.4	2.4	2.3	2.4	2.5	2.4	2.5	2.4	2.3	2.4
G173.0	2.4	2.4	2.3	2.4	2.5	2.4	2.5	2.4	2.3	2.4
G174.0	2.4	2.4	2.3	2.4	2.5	2.4	2.5	2.4	2.3	2.3
G175.0	2.4	2.4	2.3	2.4	2.5	2.4	2.5	2.4	2.3	2.4
G176.0	2.4	2.4	2.3	2.4	2.5	2.4	2.5	2.4	2.4	2.4
G177.0	2.4	2.4	2.3	2.4	2.6	2.4	2.5	2.4	2.3	2.4
G178.0	2.4	2.4	2.3	2.4	2.6	2.4	2.5	2.4	2.4	2.4
G179.0	2.5	2.4	2.4	2.4	2.6	2.4	2.5	2.4	2.4	2.4
G180.0	2.4	2.4	2.4	2.5	2.6	2.4	2.5	2.4	2.4	2.4

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

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	279.0	279.0	279.2	278.9	278.9	279.1	279.3			
G1.0	278.9	278.8	279.0	278.8	278.9	279.0	279.2			
G2.0	278.6	278.6	278.8	278.6	278.7	278.9	279.1			
G3.0	278.1	278.3	278.5	278.4	278.5	278.6	278.9			
G4.0	277.6	277.8	278.1	278.1	278.3	278.4	278.6			
G5.0	277.1	277.3	277.7	277.6	277.9	277.9	278.2			
G6.0	276.4	276.7	277.1	277.1	277.3	277.3	277.6			
G7.0	275.6	276.0	276.5	276.5	276.6	276.6	277.0			
G8.0	274.6	275.2	275.7	275.8	275.9	275.7	276.3			
G9.0	273.7	274.3	274.9	275.1	275.1	274.8	275.3			
G10.0	272.7	273.4	274.0	274.1	274.1	273.9	274.3			
G11.0	271.4	272.2	272.9	273.1	273.0	272.6	273.2			
G12.0	270.1	271.2	271.9	272.1	271.8	271.4	272.0			
G13.0	268.6	269.8	270.7	270.9	270.5	270.0	270.6			
G14.0	267.2	268.5	269.5	269.6	269.2	268.6	269.0			
G15.0	265.8	267.1	268.3	268.4	267.8	267.1	267.5			
G16.0	264.0	265.7	266.7	266.9	266.2	265.3	265.9			
G17.0	262.2	264.2	265.3	265.4	264.6	263.4	263.8			
G18.0	260.4	262.4	263.8	263.8	262.9	261.7	262.1			
G19.0	258.3	260.6	262.1	262.1	261.0	259.6	260.0			
G20.0	256.4	258.9	260.5	260.4	259.0	257.5	257.9			
G21.0	254.2	256.9	258.6	258.5	257.0	255.2	255.8			
G22.0	252.0	255.2	256.8	256.6	254.9	253.0	253.3			
G23.0	249.8	253.1	255.1	254.9	252.9	250.6	251.0			
G24.0	247.3	250.9	253.0	252.6	250.5	248.1	248.5			
G25.0	245.0	248.8	251.0	250.7	248.2	245.6	245.7			
G26.0	242.6	246.5	248.9	248.6	245.8	243.0	243.1			
G27.0	239.7	244.3	246.7	246.2	243.2	240.2	240.1			
G28.0	237.2	242.0	244.5	244.1	240.8	237.4	237.4			
G29.0	234.5	239.4	242.2	241.5	238.0	234.4	234.5			
G30.0	231.6	237.1	239.9	239.2	235.4	231.6	231.3			
G31.0	229.0	234.7	237.7	236.9	232.6	228.6	228.2			
G32.0	225.9	232.1	235.2	234.3	229.9	225.2	225.0			
G33.0	223.0	229.5	232.8	231.7	227.0	222.3	221.6			
G34.0	220.2	227.0	230.4	229.3	224.2	219.0	218.4			
G35.0	217.0	224.0	227.7	226.5	221.1	215.4	214.9			
G36.0	213.9	221.4	225.3	223.8	218.1	212.3	211.4			

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

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	210.6	218.6	222.5	221.0	214.8	208.6	208.1			
G38.0	207.4	215.8	219.9	218.2	211.8	205.3	204.3			
G39.0	204.3	213.1	217.2	215.6	208.8	201.7	200.5			
G40.0	200.9	210.0	214.4	212.3	205.1	197.8	196.6			
G41.0	197.6	207.1	211.6	209.7	202.1	194.3	193.1			
G42.0	194.4	204.3	209.0	206.8	198.8	190.8	189.2			
G43.0	190.9	201.2	205.9	203.8	195.2	186.7	185.0			
G44.0	187.4	198.1	203.2	200.7	192.0	183.1	181.3			
G45.0	183.9	195.0	200.2	197.6	188.5	179.0	177.3			
G46.0	180.7	192.2	197.5	194.6	185.1	175.3	173.2			
G47.0	177.2	189.1	194.7	191.7	181.9	171.7	169.0			
G48.0	173.6	185.9	191.5	188.6	178.2	167.4	164.7			
G49.0	170.2	183.0	188.6	185.6	174.9	163.6	160.5			
G50.0	166.8	179.9	185.7	182.6	171.4	159.8	156.5			
G51.0	163.1	176.7	182.7	179.4	167.8	155.4	151.9			
G52.0	159.6	173.7	179.9	176.3	164.3	151.5	147.8			
G53.0	156.0	170.4	176.6	173.0	160.7	147.2	143.5			
G54.0	152.6	167.3	173.8	169.9	157.2	143.3	139.0			
G55.0	149.2	164.4	170.8	166.9	153.8	139.3	134.6			
G56.0	145.6	161.1	167.7	163.6	150.1	135.0	129.9			
G57.0	142.1	158.0	164.9	160.6	146.8	130.9	125.5			
G58.0	138.5	154.7	161.7	157.5	143.0	126.7	121.0			
G59.0	135.1	151.7	158.8	154.3	139.8	122.7	116.5			
G60.0	131.7	148.7	156.0	151.4	136.4	118.9	112.1			
G61.0	128.2	145.6	152.8	148.2	132.7	114.4	107.4			
G62.0	124.9	142.6	150.0	145.1	129.3	110.5	102.7			
G63.0	121.6	139.6	147.1	142.2	126.1	106.7	98.2			
G64.0	118.1	136.3	144.0	139.1	122.4	102.3	93.4			
G65.0	114.8	133.5	141.3	136.1	119.2	98.3	89.0			
G66.0	111.4	130.4	138.1	132.9	115.7	94.2	84.4			
G67.0	108.3	127.5	135.4	130.0	112.5	90.5	79.5			
G68.0	105.2	124.6	132.5	127.1	109.4	86.6	75.2			
G69.0	101.9	121.7	129.5	124.1	105.9	82.4	70.6			
G70.0	98.7	118.7	126.8	121.1	102.9	78.8	65.7			
G71.0	95.8	116.1	124.0	118.5	99.9	75.2	61.5			
G72.0	92.7	113.1	121.0	115.4	96.5	71.2	56.5			
G73.0	89.7	110.3	118.5	112.7	93.6	67.8	52.3			

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

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	86.7	107.3	115.5	109.8	90.6	64.0	47.9			
G75.0	83.8	104.9	112.9	107.1	87.6	60.6	43.1			
G76.0	81.2	102.1	110.4	104.5	84.8	57.3	39.1			
G77.0	78.3	99.5	107.5	101.6	81.9	53.8	34.9			
G78.0	75.6	97.0	105.0	98.9	79.1	50.7	30.5			
G79.0	73.1	94.4	102.4	96.4	76.5	47.7	26.6			
G80.0	70.4	91.7	99.8	93.7	73.7	44.6	22.6			
G81.0	68.0	89.4	97.4	91.3	71.3	41.9	19.2			
G82.0	65.3	86.6	94.8	88.6	68.5	39.0	15.7			
G83.0	63.0	84.3	92.4	86.3	66.1	36.4	12.3			
G84.0	60.7	82.0	90.1	83.9	63.7	34.1	9.4			
G85.0	58.4	79.6	87.5	81.4	61.4	31.6	6.6			
G86.0	56.2	77.2	85.3	79.1	59.0	29.5	4.4			
G87.0	54.2	75.1	82.9	76.9	57.0	27.3	2.6			
G88.0	51.9	72.7	80.6	74.4	54.5	25.3	1.2			
G89.0	49.9	70.7	78.4	72.3	52.6	23.5	0.4			
G90.0	47.9	68.4	76.0	70.0	50.4	21.6	0.2			
G91.0	46.1	66.3	74.0	67.9	48.4	20.2	0.2			
G92.0	44.3	64.3	71.8	65.9	46.6	18.7	0.2			
G93.0	42.4	62.2	69.6	63.6	44.6	17.3	0.2			
G94.0	40.8	60.3	67.6	61.7	42.9	16.0	0.2			
G95.0	39.1	58.4	65.7	59.8	41.2	14.9	0.3			
G96.0	37.4	56.4	63.6	57.8	39.3	13.8	0.3			
G97.0	35.9	54.5	61.7	55.9	37.8	12.8	0.3			
G98.0	34.3	52.7	59.7	54.0	36.1	11.9	0.3			
G99.0	32.9	50.9	57.8	52.1	34.6	11.2	0.4			
G100.0	31.6	49.3	56.0	50.5	33.2	10.4	0.4			
G101.0	30.1	47.5	54.1	48.6	31.7	9.7	0.4			
G102.0	29.0	45.9	52.4	47.1	30.4	9.1	0.5			
G103.0	27.7	44.1	50.6	45.3	29.1	8.5	0.5			
G104.0	26.5	42.7	48.9	43.7	27.8	8.0	0.5			
G105.0	25.4	41.2	47.3	42.2	26.7	7.5	0.6			
G106.0	24.2	39.5	45.5	40.6	25.5	7.1	0.6			
G107.0	23.2	38.2	44.1	39.1	24.4	6.7	0.6			
G108.0	22.2	36.8	42.6	37.7	23.4	6.4	0.6			
G109.0	21.3	35.4	41.0	36.2	22.3	6.0	0.7			
G110.0	20.3	34.0	39.5	34.9	21.3	5.7	0.7			

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

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	19.4	32.7	38.0	33.5	20.3	5.4	0.8			
G112.0	18.5	31.4	36.6	32.3	19.4	5.2	0.8			
G113.0	17.7	30.3	35.3	31.0	18.7	5.0	0.8			
G114.0	16.9	29.0	33.9	29.7	17.8	4.7	0.9			
G115.0	16.2	27.9	32.7	28.6	17.0	4.5	0.9			
G116.0	15.5	26.8	31.5	27.5	16.3	4.4	0.9			
G117.0	14.7	25.7	30.1	26.3	15.5	4.2	1.0			
G118.0	14.1	24.7	29.0	25.3	14.9	4.0	1.0			
G119.0	13.5	23.6	27.9	24.2	14.2	3.9	1.0			
G120.0	12.9	22.6	26.7	23.2	13.6	3.7	1.1			
G121.0	12.4	21.7	25.7	22.3	13.0	3.5	1.1			
G122.0	11.8	20.8	24.6	21.3	12.4	3.4	1.1			
G123.0	11.2	19.9	23.6	20.4	11.9	3.3	1.2			
G124.0	10.8	19.1	22.6	19.5	11.3	3.2	1.2			
G125.0	10.1	18.2	21.6	18.6	10.8	3.1	1.2			
G126.0	9.6	17.4	20.7	17.9	10.2	3.0	1.2			
G127.0	9.0	16.6	19.7	17.0	9.5	3.0	1.3			
G128.0	8.6	15.9	18.9	16.3	9.1	2.9	1.3			
G129.0	8.3	15.2	18.1	15.5	8.7	2.8	1.4			
G130.0	7.9	14.4	17.2	14.7	8.2	2.7	1.4			
G131.0	7.6	13.8	16.4	14.2	7.9	2.7	1.4			
G132.0	7.3	13.2	15.8	13.5	7.6	2.7	1.5			
G133.0	6.9	12.3	14.9	12.9	7.3	2.6	1.5			
G134.0	6.6	11.6	14.2	12.0	7.0	2.6	1.5			
G135.0	6.3	11.0	13.5	11.2	6.7	2.6	1.5			
G136.0	6.1	10.5	12.6	10.7	6.4	2.5	1.6			
G137.0	5.8	10.0	12.0	10.2	6.2	2.5	1.6			
G138.0	5.6	9.5	11.4	9.7	5.9	2.5	1.7			
G139.0	5.4	9.1	10.8	9.3	5.7	2.4	1.7			
G140.0	5.2	8.6	10.3	8.8	5.5	2.4	1.7			
G141.0	5.0	8.2	9.7	8.4	5.3	2.3	1.7			
G142.0	4.8	7.8	9.3	7.9	5.0	2.3	1.7			
G143.0	4.6	7.4	8.8	7.6	4.8	2.3	1.8			
G144.0	4.4	7.0	8.3	7.2	4.6	2.3	1.8			
G145.0	4.2	6.7	7.9	6.8	4.3	2.3	1.8			
G146.0	4.0	6.4	7.5	6.5	4.1	2.3	1.9			
G147.0	3.9	6.1	7.1	6.2	3.9	2.3	1.9			

C Plane (°):0.0-360.0: 22.5

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Test Device: LSG-1700B

Distance: 8.942 m

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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	3.7	5.8	6.7	5.9	3.7	2.3	1.9			
G149.0	3.6	5.5	6.4	5.6	3.5	2.3	1.9			
G150.0	3.5	5.2	6.1	5.3	3.3	2.3	2.0			
G151.0	3.4	5.0	5.8	5.0	3.3	2.3	2.0			
G152.0	3.3	4.7	5.4	4.9	3.2	2.3	2.0			
G153.0	3.2	4.5	5.2	4.6	3.2	2.2	2.1			
G154.0	3.1	4.2	4.9	4.4	3.1	2.3	2.1			
G155.0	3.0	4.0	4.6	4.2	3.1	2.3	2.1			
G156.0	3.0	3.9	4.4	4.0	3.0	2.3	2.1			
G157.0	2.9	3.7	4.2	3.8	2.9	2.3	2.1			
G158.0	2.9	3.6	4.1	3.6	2.9	2.3	2.1			
G159.0	2.8	3.5	3.9	3.4	2.9	2.3	2.2			
G160.0	2.7	3.3	3.7	3.3	2.8	2.3	2.2			
G161.0	2.7	3.2	3.6	3.1	2.7	2.3	2.2			
G162.0	2.6	3.1	3.4	2.9	2.7	2.3	2.2			
G163.0	2.6	3.0	3.3	2.8	2.7	2.3	2.2			
G164.0	2.5	2.9	3.2	2.8	2.6	2.3	2.3			
G165.0	2.5	2.8	3.1	2.7	2.6	2.4	2.3			
G166.0	2.5	2.7	2.9	2.6	2.6	2.4	2.3			
G167.0	2.4	2.7	2.9	2.6	2.6	2.4	2.3			
G168.0	2.5	2.6	2.8	2.6	2.6	2.4	2.3			
G169.0	2.4	2.6	2.8	2.5	2.5	2.4	2.3			
G170.0	2.4	2.6	2.7	2.5	2.5	2.4	2.3			
G171.0	2.4	2.5	2.7	2.5	2.6	2.4	2.4			
G172.0	2.4	2.5	2.7	2.5	2.5	2.4	2.4			
G173.0	2.5	2.5	2.7	2.5	2.6	2.4	2.4			
G174.0	2.4	2.5	2.7	2.5	2.5	2.4	2.4			
G175.0	2.4	2.6	2.7	2.5	2.6	2.4	2.4			
G176.0	2.4	2.5	2.7	2.5	2.5	2.3	2.4			
G177.0	2.3	2.4	2.6	2.5	2.5	2.4	2.4			
G178.0	2.3	2.4	2.6	2.4	2.5	2.4	2.4			
G179.0	2.4	2.4	2.6	2.4	2.5	2.4	2.5			
G180.0	2.3	2.4	2.6	2.4	2.5	2.4	2.4			

C Plane (°):0.0-360.0: 22.5

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