

Report No.: 1810301209

Test Time: 2018-10-30 12:10

Luminaire Property

Luminaire Manufacturer: 05-05120 27W T8 6000K 127 lm LOT2018080013

Number of Lamps: 1

Luminous Length (mm): 1500

Luminous Width (mm): 26

Luminous Height (mm): 32

Voltage: 220.3 V

Current: 0.122 A

Power: 26.13 W

Power Factor: 0.976

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 2989.8 lm

Downward Ratio: 90%

Total Rated Lamp Lumens: 2989.8 lm

Efficiency: 100%

Upward Ratio: 10%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 155.4, 238.6, 207.3, 207.2

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 105.9, 133.5, 118.3, 118.2

Luminaire Efficacy Rating (LER): 114.47

Central Intensity: 276.83 cd/klm

Max. Intensity: 276.98 cd/klm

Pos of Max. Intensity: H0 V1

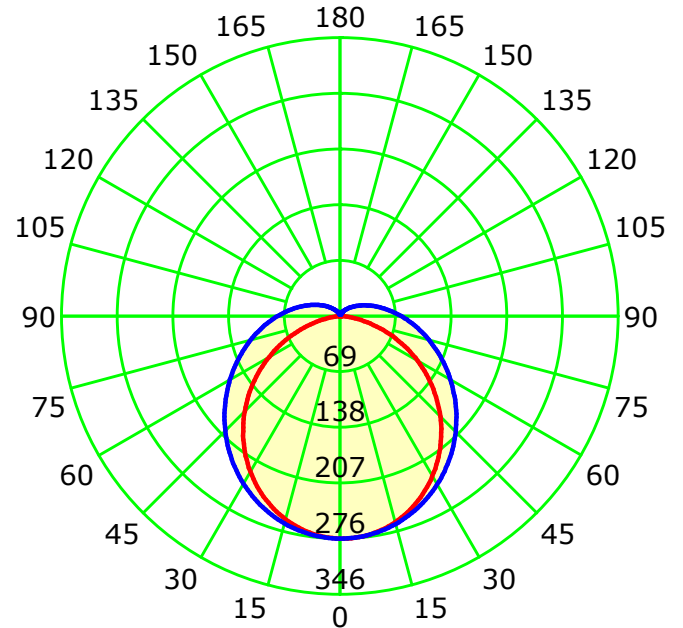
S/MH(C0/C180): 1.22

S/MH(C90/C270): 1.30

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd/klm

Average Diffuse Angle(50%): 119.7°

— 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

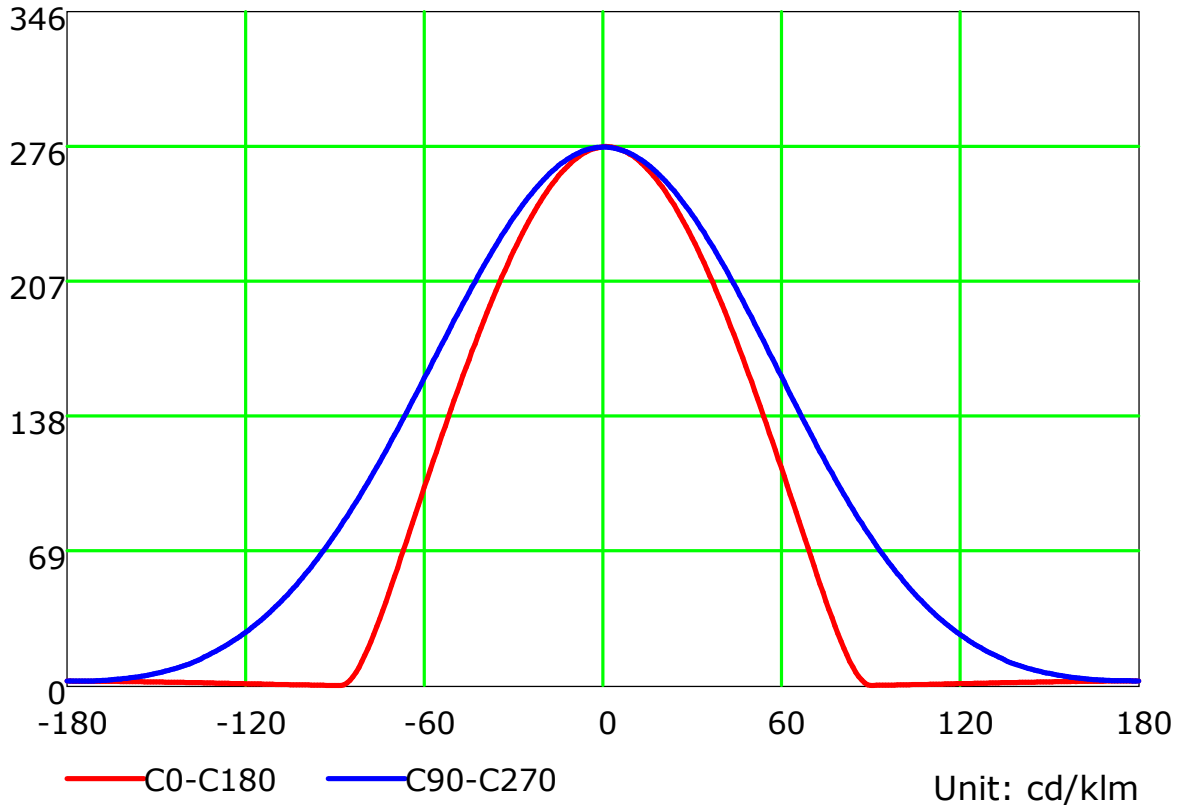
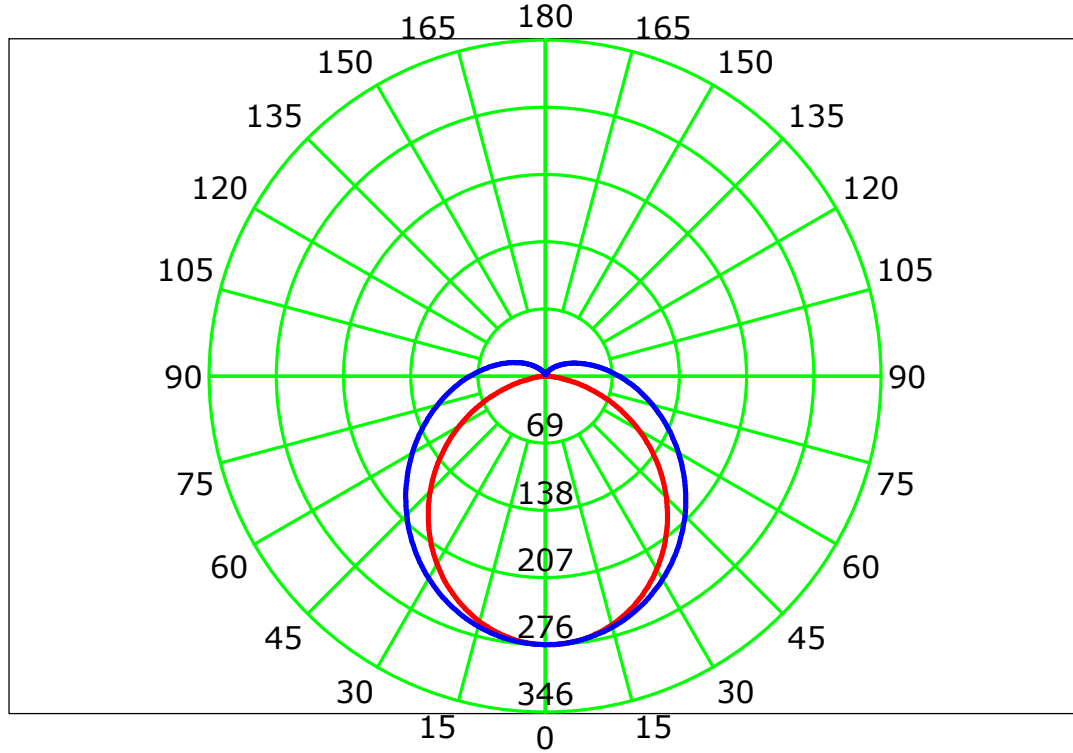
Test Device: LSG-1700B

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

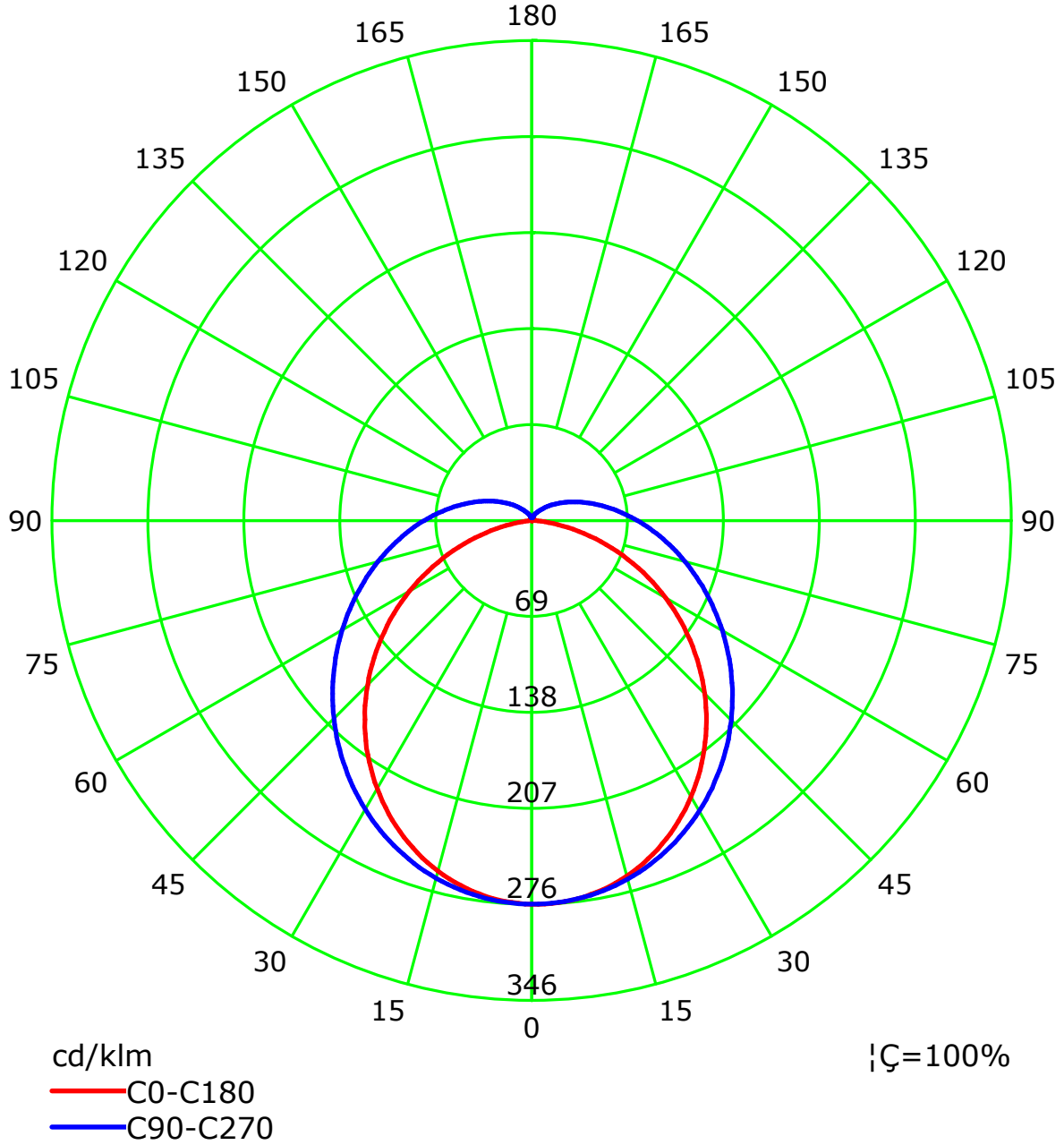
Test Device: LSG-1700B

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:

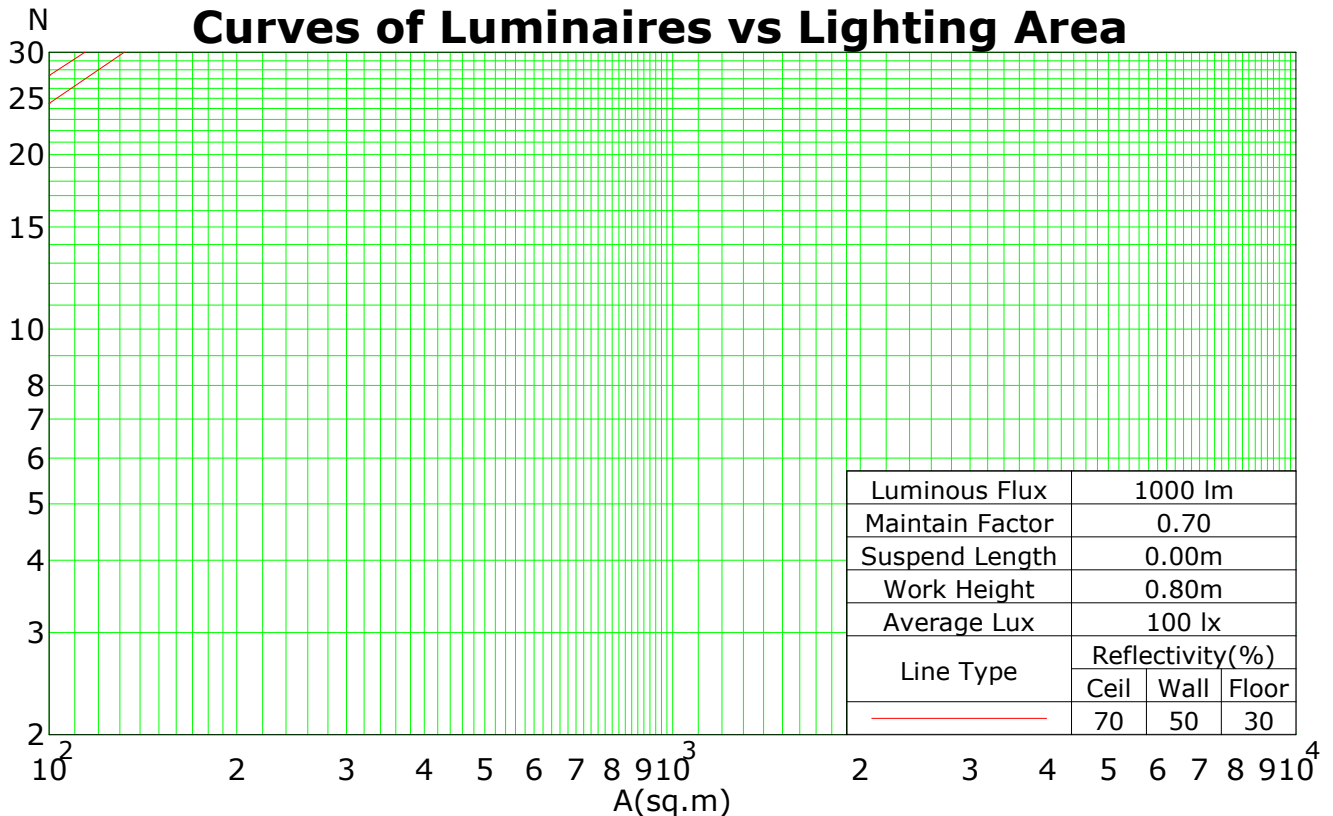
Coefficients Of Utilization - Zonal Cavity Method

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	92	92	92	90
1	104	99	94	89	100	95	91	87	89	85	82	83	80	77	78	76	73	70
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	52	59	54	50	47
4	78	65	56	49	75	63	55	48	59	52	46	56	50	44	52	47	43	40
5	72	58	49	42	69	56	48	41	53	45	40	50	43	38	47	41	37	34
6	66	52	43	36	63	51	42	36	48	40	35	45	38	33	43	37	32	30
7	61	47	38	32	59	46	37	31	43	36	30	41	34	30	39	33	29	26
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	30	25	36	29	24	35	28	24	33	27	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	21	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: 20

Operator: Ç.KARTALTEPE

Gamma Plane (°):0.0-180.0:1.0

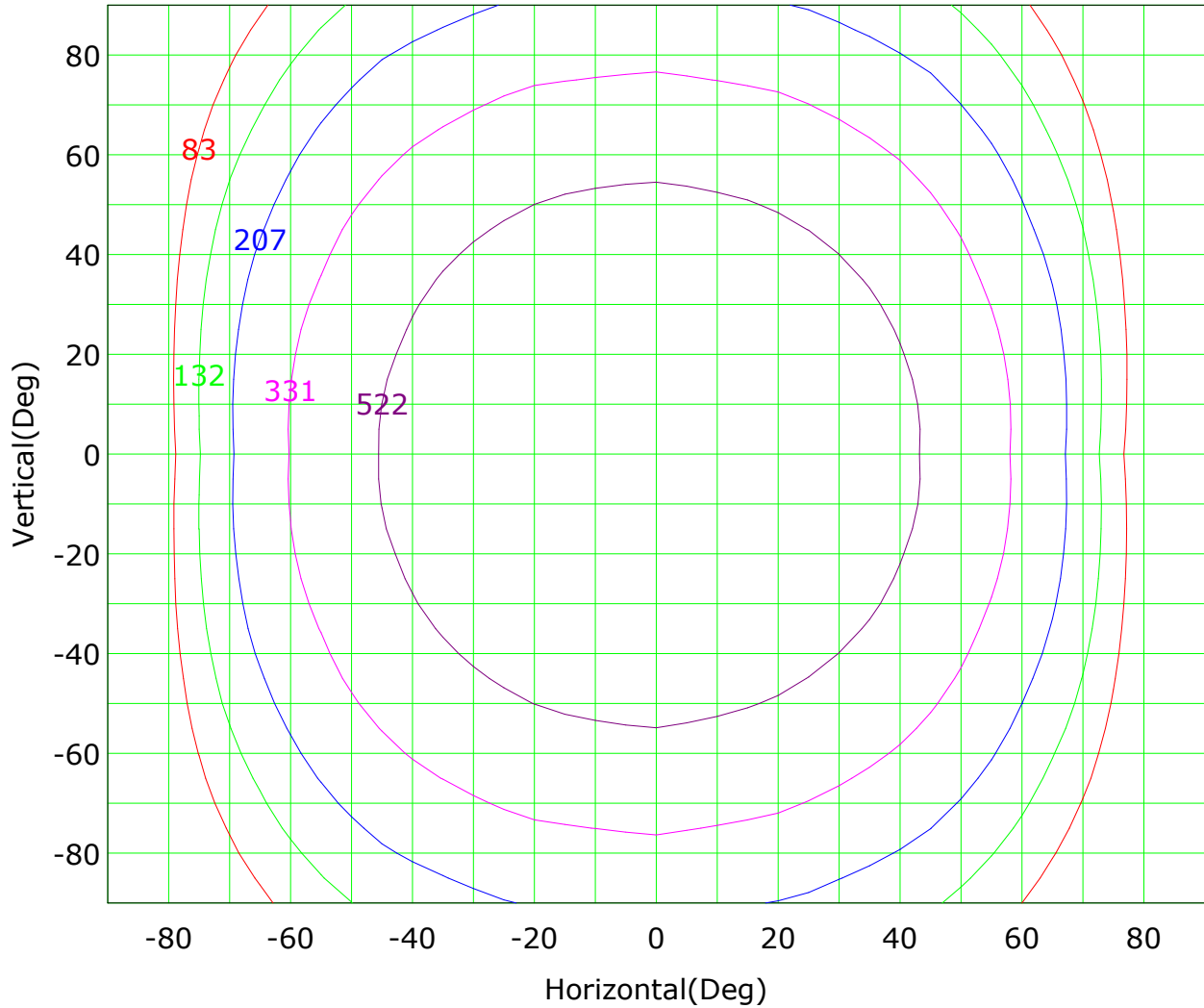
Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

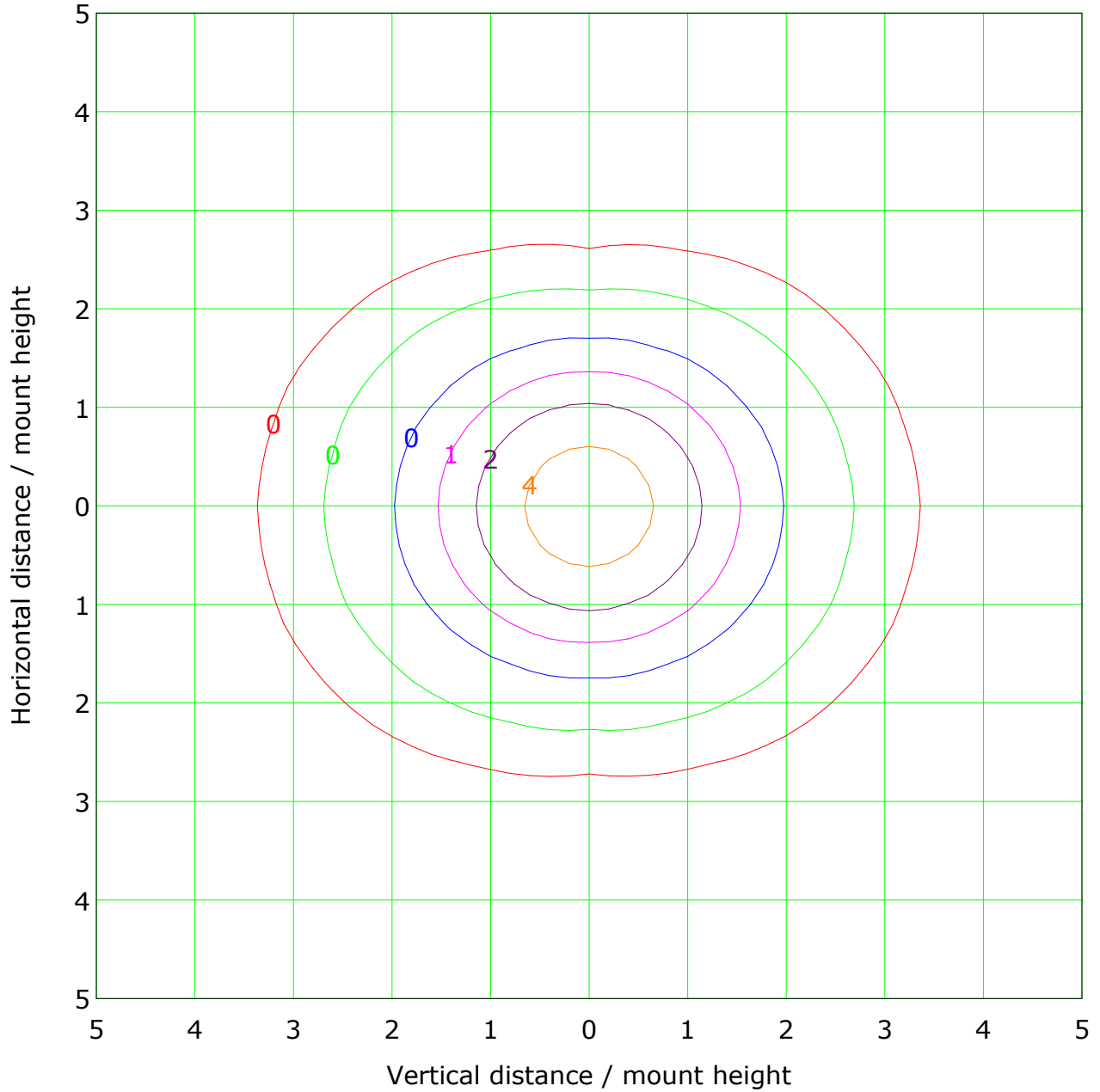
Isocandela (rectangle)



Imax (100%): 828 cd

(10%): 83 cd	(16%): 132 cd
(25%): 207 cd	(40%): 331 cd
(63%): 522 cd	(100%): 828 cd

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 8.3 lx

(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.4 lx	(10%): 0.8 lx
(20%): 1.7 lx	(50%): 4.1 lx
(100%): 8.3 lx	

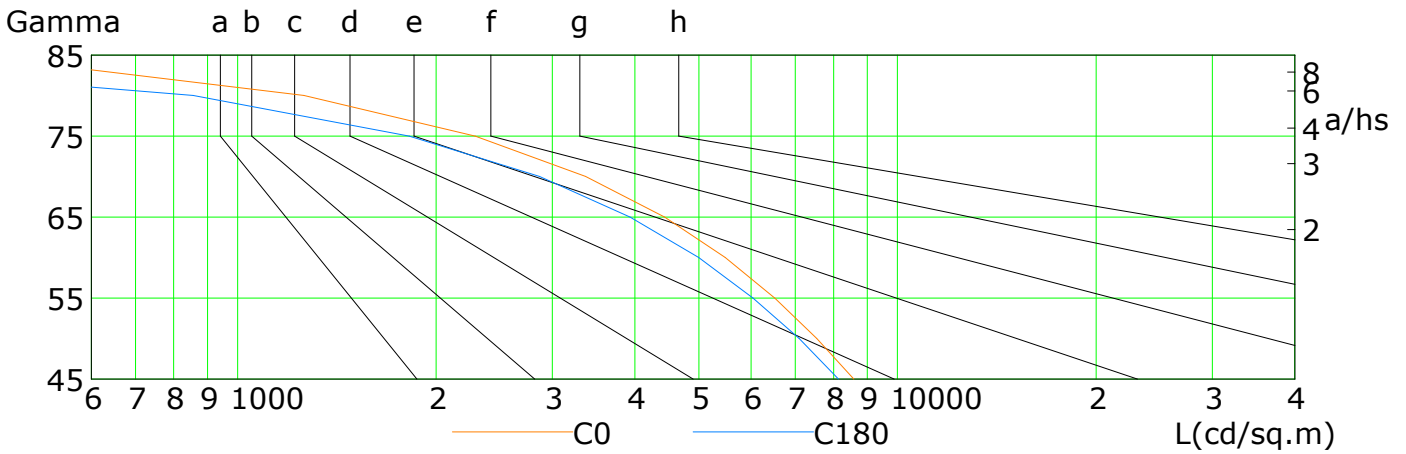
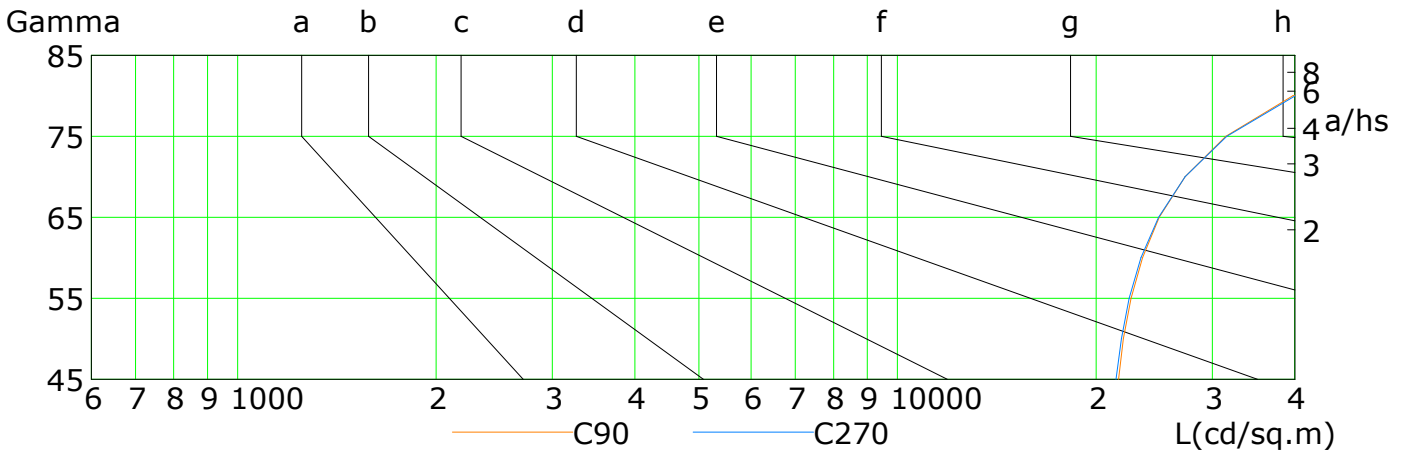
C Plane (°):0.0-360.0: 22.5
 Test Lab: KARMA
 Test Type: TYPE C
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1700B
 Distance: 8.942 m
 Humidity:
 Inspector:

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	8589	7547	6514	5479	4435	3370	2290	1261	397
C90	21634	22000	22584	23508	24938	27282	31431	39761	62262
C180	8137	7092	6042	4993	3935	2869	1820	856	158
C270	21429	21835	22429	23374	24868	27282	31541	40085	63194

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

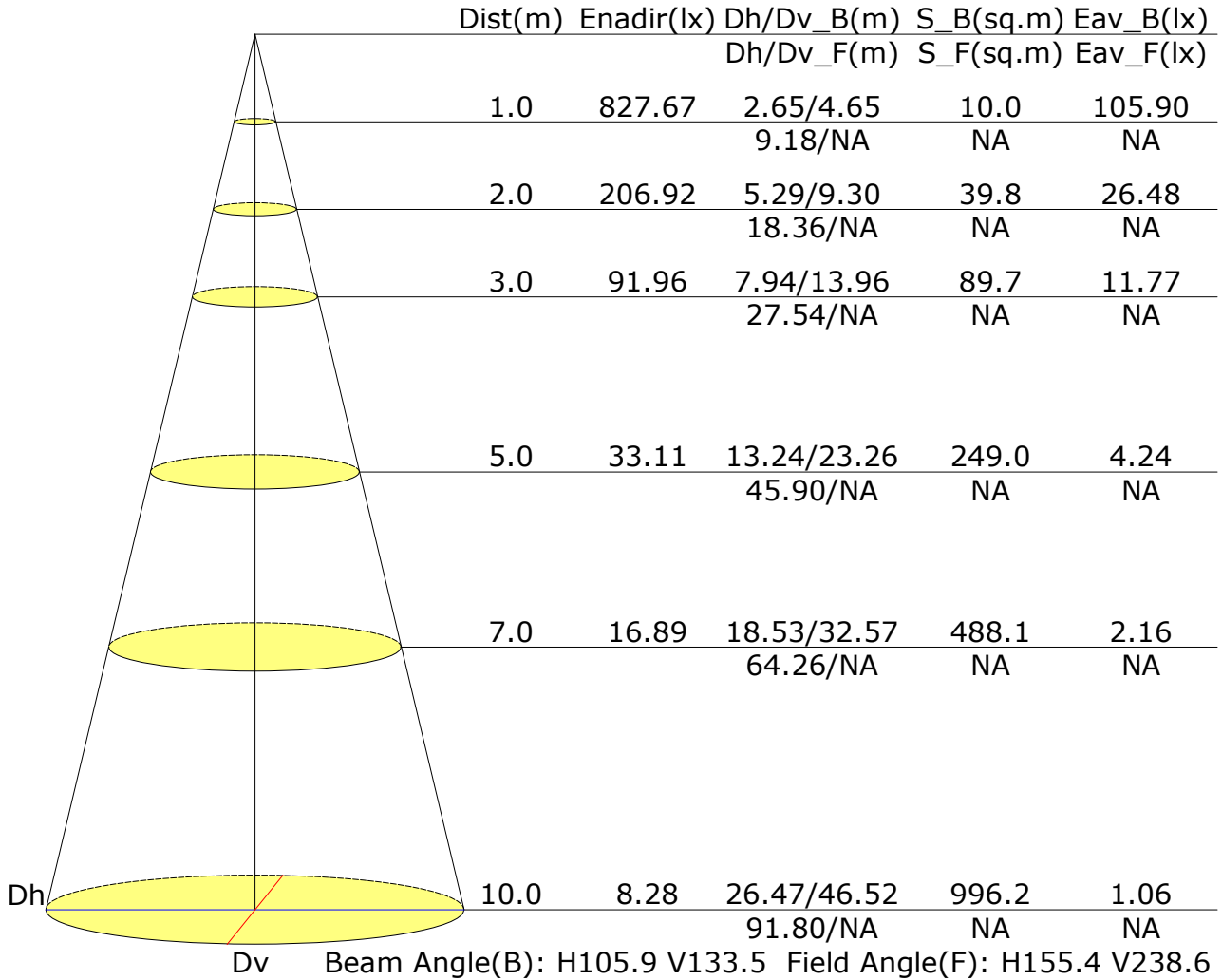
Test Device: LSG-1700B

Distance: 8.942 m

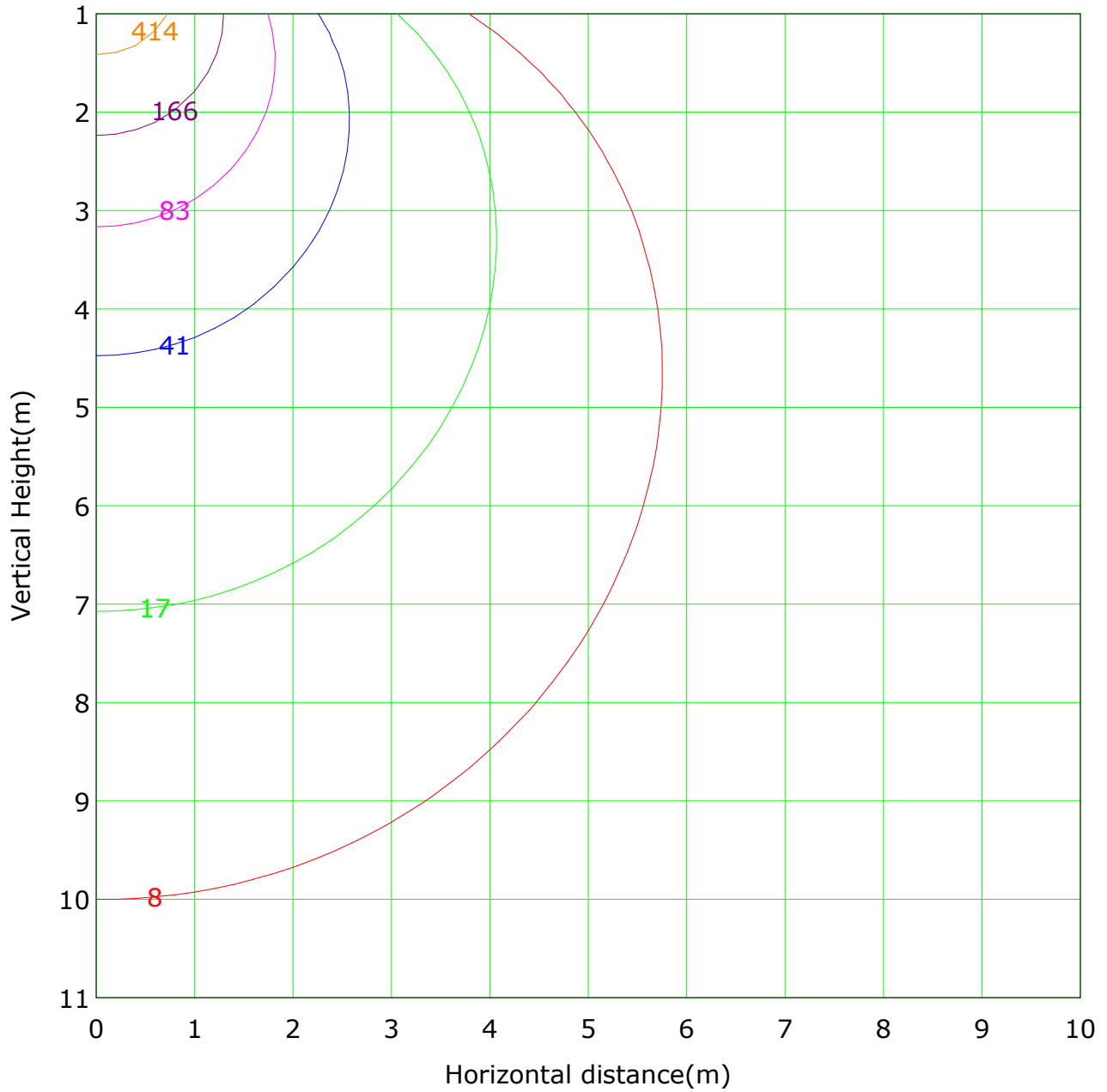
Humidity:

Inspector:

Illuminance at a Distance



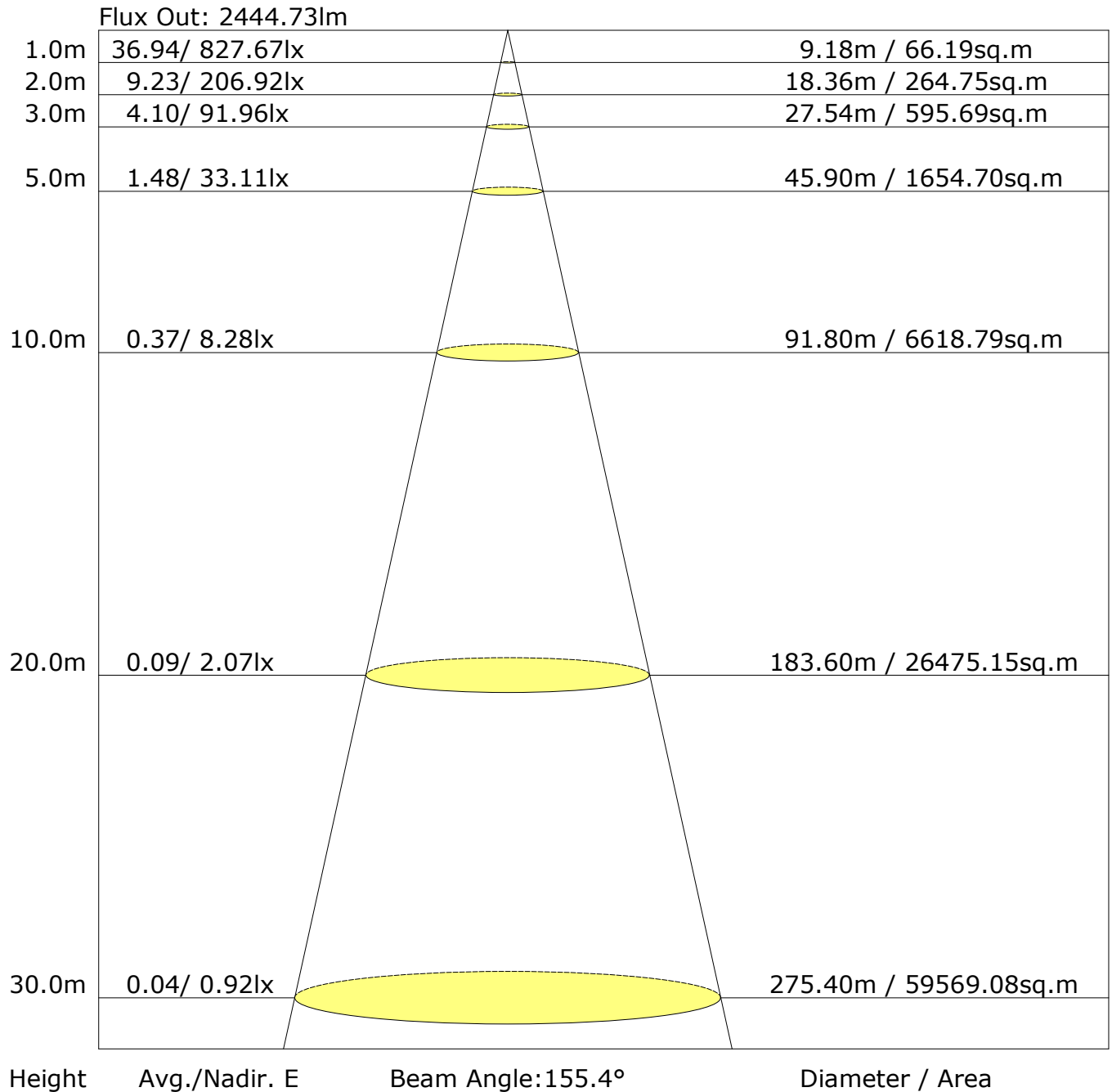
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 827.7 lx

— (1%): 8.3 lx	— (2%): 16.6 lx
— (5%): 41.4 lx	— (10%): 82.8 lx
— (20%): 165.5 lx	— (50%): 413.8 lx
— (100%): 827.7 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	18.4	19.7	18.8	20.1	20.6	21.7	23.0	22.1	23.4	23.9
3H	19.3	20.5	19.8	21.0	21.5	24.0	25.2	24.5	25.7	26.2
4H	19.6	20.8	20.1	21.2	21.8	25.3	26.4	25.8	26.9	27.4
6H	19.8	20.8	20.3	21.3	21.9	26.6	27.7	27.1	28.2	28.7
8H	19.8	20.8	20.3	21.3	21.9	27.4	28.4	27.9	28.9	29.4
12H	19.7	20.7	20.3	21.2	21.8	28.2	29.2	28.7	29.7	30.2
X=4H Y=2H	19.3	20.5	19.8	20.9	21.5	21.9	23.1	22.4	23.5	24.0
3H	20.5	21.5	21.0	22.0	22.6	24.4	25.4	25.0	25.9	26.5
4H	20.9	21.8	21.5	22.3	22.9	25.8	26.7	26.4	27.2	27.8
6H	21.1	21.9	21.7	22.5	23.1	27.3	28.1	27.9	28.7	29.3
8H	21.2	21.9	21.8	22.5	23.2	28.1	28.9	28.7	29.5	30.1
12H	21.2	21.9	21.8	22.5	23.1	29.1	29.7	29.7	30.3	31.0
X=8H Y=4H	21.6	22.4	22.2	22.9	23.6	25.9	26.6	26.5	27.2	27.8
6H	22.1	22.7	22.7	23.3	24.0	27.5	28.1	28.2	28.8	29.4
8H	22.2	22.7	22.8	23.4	24.1	28.5	29.0	29.1	29.6	30.4
12H	22.3	22.7	22.9	23.4	24.1	29.6	30.0	30.2	30.7	31.4
X=12H Y=4H	21.8	22.5	22.4	23.1	23.7	25.9	26.5	26.5	27.1	27.8
6H	22.4	22.9	23.0	23.5	24.3	27.6	28.1	28.2	28.7	29.4
8H	22.6	23.1	23.3	23.7	24.4	28.5	29.0	29.2	29.6	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 2990lm ($8\log(F/F_0) = 3.8$).

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Test Type: TYPE C

Temperature: 20

Operator: Ç.KARTALTEPE

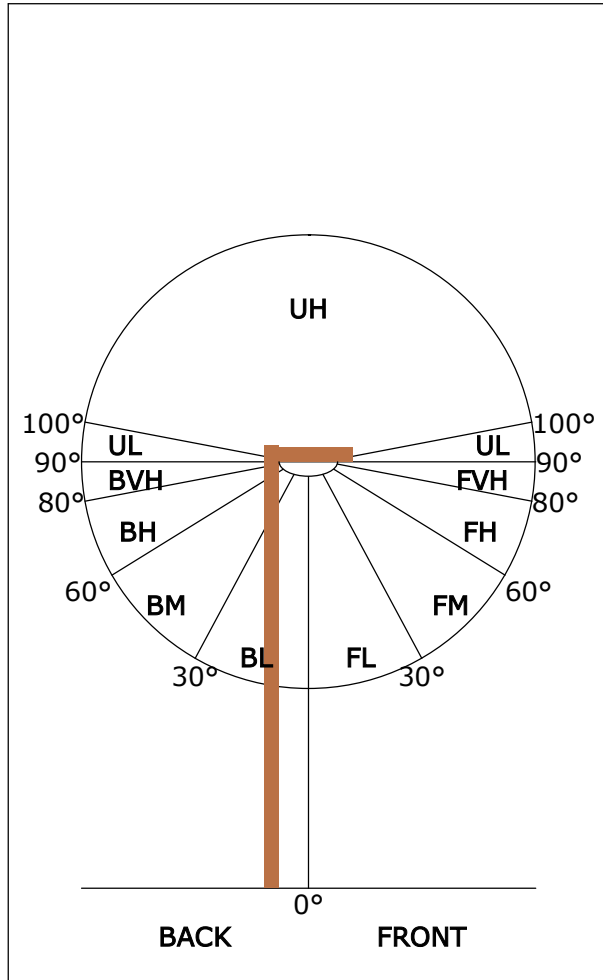
Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM


ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1361	45.5
FL (0°-30°)	323	10.8
FM (30°-60°)	635	21.2
FH (60°-80°)	311	10.4
FVH (80°-90°)	93	3.1
BACK LIGHT	1316	44.0
BL (0°-30°)	319	10.7
BM (30°-60°)	616	20.6
BH (60°-80°)	294	9.8
BVH (80°-90°)	87	2.9
UP LIGHT	313	10.5
UL (90°-100°)	121	4.0
UH (100°-180°)	192	6.4
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

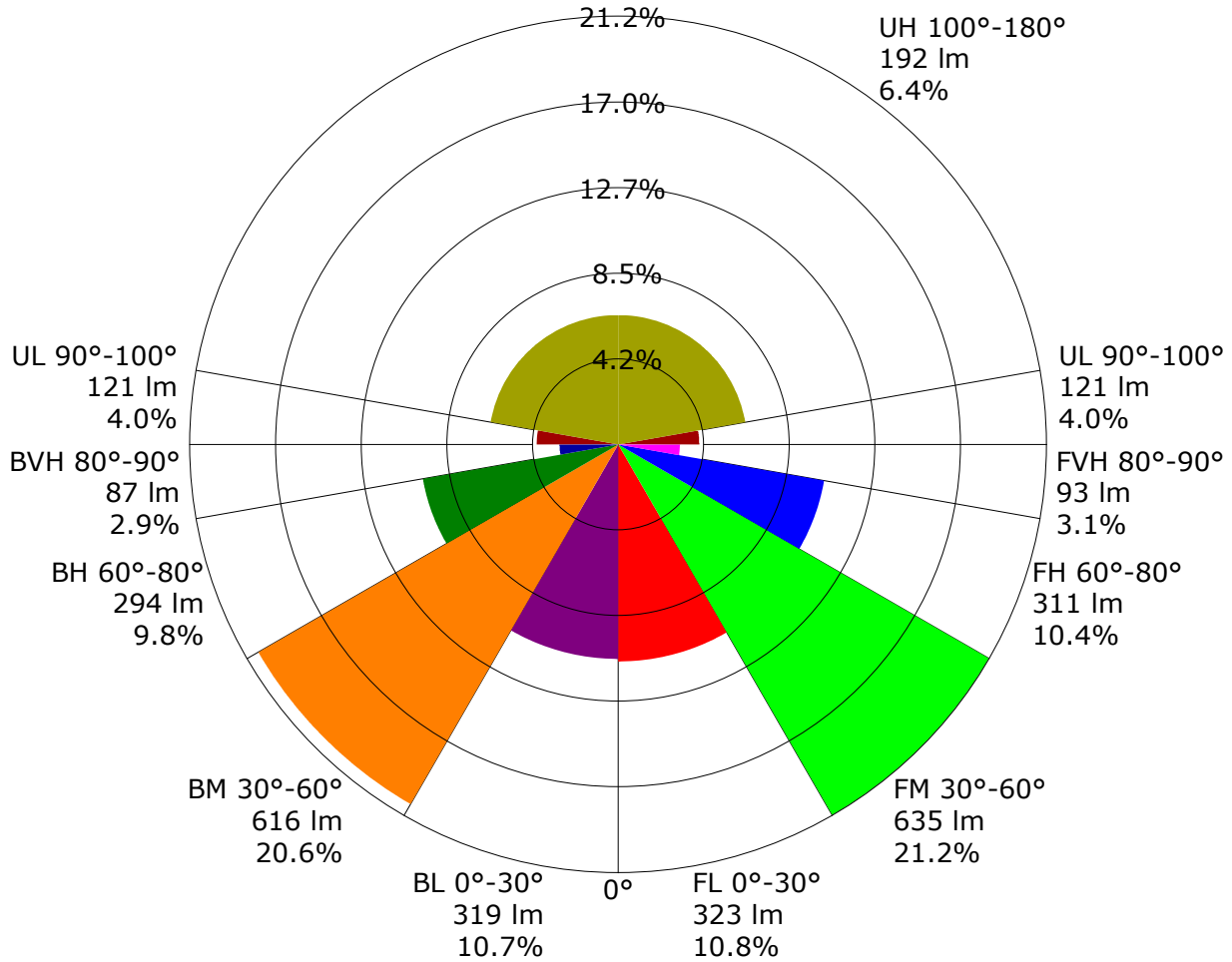
Test Device: LSG-1700B

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	0.72	0.80	0.85	0.88	0.93	0.96	
	0.30		0.43	0.52	0.59	0.65	0.73	0.78	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	0.63	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	0.70	0.75	0.78	0.82	0.85	
	0.30		0.39	0.48	0.54	0.59	0.66	0.70	0.74	0.79	0.82	
	0.20		0.35	0.43	0.50	0.54	0.62	0.67	0.70	0.76	0.79	
0.00	0.00	0.00	0.32	0.39	0.45	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	0.66	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	0.63	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	
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	0.30	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		0.15	0.16	0.17	0.19	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	0.23	0.24	0.25	
0.30	0.50	0.20	0.25	0.26	0.27	0.27	0.28	0.29	0.29	0.29	0.29	
	0.30		0.19	0.20	0.21	0.22	0.24	0.25	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	276.6	0.8	0.8	0.03	0.03
1.0-2.0	276.5	2.4	3.2	0.08	0.11
2.0-3.0	276.3	4.0	7.1	0.13	0.24
3.0-4.0	276.0	5.5	12.6	0.18	0.42
4.0-5.0	275.6	7.1	19.7	0.24	0.66
5.0-6.0	275.1	8.6	28.4	0.29	0.95
6.0-7.0	274.5	10.2	38.6	0.34	1.29
7.0-8.0	273.8	11.7	50.3	0.39	1.68
8.0-9.0	272.9	13.2	63.5	0.44	2.12
9.0-10.0	272.1	14.7	78.2	0.49	2.62
10.0-11.0	271.1	16.2	94.4	0.54	3.16
11.0-12.0	270.0	17.6	112.1	0.59	3.75
12.0-13.0	268.8	19.1	131.1	0.64	4.39
13.0-14.0	267.5	20.5	151.6	0.68	5.07
14.0-15.0	266.1	21.8	173.5	0.73	5.80
15.0-16.0	264.7	23.2	196.6	0.78	6.58
16.0-17.0	263.1	24.5	221.1	0.82	7.40
17.0-18.0	261.4	25.8	246.9	0.86	8.26
18.0-19.0	259.7	27.0	273.9	0.90	9.16
19.0-20.0	257.8	28.2	302.1	0.94	10.11
20.0-21.0	255.9	29.4	331.5	0.98	11.09
21.0-22.0	253.9	30.5	362.0	1.02	12.11
22.0-23.0	251.9	31.6	393.6	1.06	13.17
23.0-24.0	249.7	32.6	426.3	1.09	14.26
24.0-25.0	247.5	33.6	459.9	1.13	15.38
25.0-26.0	245.2	34.6	494.5	1.16	16.54
26.0-27.0	242.7	35.5	530.0	1.19	17.73
27.0-28.0	240.2	36.4	566.4	1.22	18.95
28.0-29.0	237.7	37.2	603.6	1.24	20.19
29.0-30.0	235.1	38.0	641.6	1.27	21.46
30.0-31.0	232.5	38.7	680.3	1.29	22.75
31.0-32.0	229.8	39.4	719.6	1.32	24.07
32.0-33.0	226.9	40.0	759.6	1.34	25.41
33.0-34.0	224.1	40.6	800.1	1.36	26.76
34.0-35.0	221.2	41.1	841.2	1.37	28.14
35.0-36.0	218.2	41.5	882.8	1.39	29.53

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	215.2	42.0	924.7	1.40	30.93
37.0-38.0	212.0	42.3	967.0	1.42	32.34
38.0-39.0	208.9	42.6	1009.7	1.43	33.77
39.0-40.0	205.7	42.9	1052.6	1.43	35.21
40.0-41.0	202.4	43.1	1095.7	1.44	36.65
41.0-42.0	199.3	43.3	1139.0	1.45	38.10
42.0-43.0	195.9	43.4	1182.4	1.45	39.55
43.0-44.0	192.5	43.5	1225.8	1.45	41.00
44.0-45.0	189.2	43.5	1269.3	1.45	42.46
45.0-46.0	185.8	43.4	1312.8	1.45	43.91
46.0-47.0	182.3	43.4	1356.1	1.45	45.36
47.0-48.0	178.8	43.2	1399.4	1.45	46.80
48.0-49.0	175.3	43.0	1442.4	1.44	48.24
49.0-50.0	171.9	42.9	1485.3	1.43	49.68
50.0-51.0	168.3	42.6	1527.8	1.42	51.10
51.0-52.0	164.7	42.2	1570.1	1.41	52.51
52.0-53.0	161.1	41.9	1612.0	1.40	53.92
53.0-54.0	157.5	41.5	1653.5	1.39	55.30
54.0-55.0	153.9	41.1	1694.6	1.37	56.68
55.0-56.0	150.3	40.6	1735.2	1.36	58.04
56.0-57.0	146.6	40.1	1775.3	1.34	59.38
57.0-58.0	143.0	39.6	1814.8	1.32	60.70
58.0-59.0	139.4	39.0	1853.8	1.30	62.00
59.0-60.0	135.8	38.4	1892.2	1.28	63.29
60.0-61.0	132.2	37.7	1929.9	1.26	64.55
61.0-62.0	128.6	37.1	1967.0	1.24	65.79
62.0-63.0	125.1	36.4	2003.3	1.22	67.01
63.0-64.0	121.4	35.6	2039.0	1.19	68.20
64.0-65.0	117.8	34.9	2073.8	1.17	69.36
65.0-66.0	114.3	34.1	2107.9	1.14	70.50
66.0-67.0	110.8	33.3	2141.2	1.11	71.62
67.0-68.0	107.3	32.5	2173.8	1.09	72.71
68.0-69.0	103.9	31.7	2205.4	1.06	73.77
69.0-70.0	100.4	30.8	2236.3	1.03	74.80
70.0-71.0	97.1	30.0	2266.3	1.00	75.80
71.0-72.0	93.7	29.1	2295.4	0.97	76.78

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	90.3	28.2	2323.7	0.94	77.72
73.0-74.0	87.1	27.4	2351.1	0.92	78.64
74.0-75.0	83.9	26.5	2377.6	0.89	79.52
75.0-76.0	80.8	25.6	2403.2	0.86	80.38
76.0-77.0	77.7	24.8	2428.0	0.83	81.21
77.0-78.0	74.7	23.9	2451.9	0.80	82.01
78.0-79.0	71.7	23.0	2474.9	0.77	82.78
79.0-80.0	68.8	22.2	2497.1	0.74	83.52
80.0-81.0	66.1	21.4	2518.5	0.71	84.24
81.0-82.0	63.4	20.6	2539.0	0.69	84.92
82.0-83.0	60.7	19.7	2558.8	0.66	85.58
83.0-84.0	58.3	19.0	2577.7	0.63	86.22
84.0-85.0	55.8	18.2	2596.0	0.61	86.83
85.0-86.0	53.5	17.5	2613.4	0.58	87.41
86.0-87.0	51.4	16.8	2630.3	0.56	87.98
87.0-88.0	49.3	16.2	2646.4	0.54	88.52
88.0-89.0	47.4	15.5	2662.0	0.52	89.03
89.0-90.0	45.6	14.9	2676.9	0.50	89.53
90.0-91.0	43.8	14.4	2691.3	0.48	90.02
91.0-92.0	42.2	13.8	2705.1	0.46	90.48
92.0-93.0	40.5	13.3	2718.4	0.44	90.92
93.0-94.0	39.0	12.8	2731.1	0.43	91.35
94.0-95.0	37.5	12.3	2743.4	0.41	91.76
95.0-96.0	36.1	11.8	2755.2	0.39	92.15
96.0-97.0	34.7	11.3	2766.4	0.38	92.53
97.0-98.0	33.4	10.8	2777.3	0.36	92.89
98.0-99.0	32.1	10.4	2787.7	0.35	93.24
99.0-100.0	30.9	10.0	2797.7	0.33	93.57
100.0-101.0	29.7	9.6	2807.2	0.32	93.89
101.0-102.0	28.5	9.2	2816.4	0.31	94.20
102.0-103.0	27.4	8.8	2825.2	0.29	94.49
103.0-104.0	26.3	8.4	2833.6	0.28	94.77
104.0-105.0	25.3	8.0	2841.6	0.27	95.04
105.0-106.0	24.4	7.7	2849.3	0.26	95.30
106.0-107.0	23.4	7.4	2856.6	0.25	95.55
107.0-108.0	22.5	7.0	2863.7	0.24	95.78

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	21.6	6.7	2870.4	0.22	96.01
109.0-110.0	20.7	6.4	2876.8	0.21	96.22
110.0-111.0	19.9	6.1	2882.9	0.20	96.43
111.0-112.0	19.1	5.8	2888.8	0.20	96.62
112.0-113.0	18.4	5.6	2894.3	0.19	96.81
113.0-114.0	17.7	5.3	2899.7	0.18	96.99
114.0-115.0	17.0	5.1	2904.7	0.17	97.15
115.0-116.0	16.3	4.8	2909.6	0.16	97.32
116.0-117.0	15.6	4.6	2914.1	0.15	97.47
117.0-118.0	15.0	4.4	2918.5	0.15	97.62
118.0-119.0	14.4	4.1	2922.7	0.14	97.75
119.0-120.0	13.8	3.9	2926.6	0.13	97.89
120.0-121.0	13.2	3.7	2930.3	0.13	98.01
121.0-122.0	12.7	3.6	2933.9	0.12	98.13
122.0-123.0	12.2	3.4	2937.2	0.11	98.24
123.0-124.0	11.7	3.2	2940.4	0.11	98.35
124.0-125.0	11.2	3.0	2943.5	0.10	98.45
125.0-126.0	10.7	2.9	2946.3	0.10	98.55
126.0-127.0	10.3	2.7	2949.0	0.09	98.64
127.0-128.0	9.8	2.6	2951.6	0.09	98.72
128.0-129.0	9.4	2.4	2954.0	0.08	98.80
129.0-130.0	9.0	2.3	2956.3	0.08	98.88
130.0-131.0	8.7	2.2	2958.4	0.07	98.95
131.0-132.0	8.3	2.0	2960.5	0.07	99.02
132.0-133.0	8.0	1.9	2962.4	0.06	99.08
133.0-134.0	7.6	1.8	2964.2	0.06	99.14
134.0-135.0	7.3	1.7	2965.9	0.06	99.20
135.0-136.0	7.0	1.6	2967.5	0.05	99.26
136.0-137.0	6.7	1.5	2969.0	0.05	99.31
137.0-138.0	6.4	1.4	2970.5	0.05	99.35
138.0-139.0	6.2	1.3	2971.8	0.04	99.40
139.0-140.0	5.9	1.3	2973.0	0.04	99.44
140.0-141.0	5.7	1.2	2974.2	0.04	99.48
141.0-142.0	5.5	1.1	2975.3	0.04	99.52
142.0-143.0	5.3	1.0	2976.4	0.04	99.55
143.0-144.0	5.0	1.0	2977.4	0.03	99.58

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	4.9	0.9	2978.3	0.03	99.62
145.0-146.0	4.7	0.9	2979.2	0.03	99.64
146.0-147.0	4.5	0.8	2980.0	0.03	99.67
147.0-148.0	4.3	0.8	2980.7	0.03	99.70
148.0-149.0	4.2	0.7	2981.4	0.02	99.72
149.0-150.0	4.0	0.7	2982.1	0.02	99.74
150.0-151.0	3.9	0.6	2982.7	0.02	99.76
151.0-152.0	3.8	0.6	2983.3	0.02	99.78
152.0-153.0	3.6	0.6	2983.9	0.02	99.80
153.0-154.0	3.5	0.5	2984.4	0.02	99.82
154.0-155.0	3.4	0.5	2984.9	0.02	99.84
155.0-156.0	3.3	0.5	2985.3	0.02	99.85
156.0-157.0	3.2	0.4	2985.7	0.01	99.86
157.0-158.0	3.1	0.4	2986.1	0.01	99.88
158.0-159.0	3.0	0.4	2986.5	0.01	99.89
159.0-160.0	3.0	0.3	2986.8	0.01	99.90
160.0-161.0	2.9	0.3	2987.2	0.01	99.91
161.0-162.0	2.8	0.3	2987.5	0.01	99.92
162.0-163.0	2.7	0.3	2987.7	0.01	99.93
163.0-164.0	2.7	0.2	2988.0	0.01	99.94
164.0-165.0	2.6	0.2	2988.2	0.01	99.95
165.0-166.0	2.6	0.2	2988.4	0.01	99.95
166.0-167.0	2.6	0.2	2988.6	0.01	99.96
167.0-168.0	2.5	0.2	2988.8	0.01	99.97
168.0-169.0	2.5	0.2	2989.0	0.01	99.97
169.0-170.0	2.5	0.1	2989.1	0.00	99.98
170.0-171.0	2.4	0.1	2989.2	0.00	99.98
171.0-172.0	2.4	0.1	2989.4	0.00	99.99
172.0-173.0	2.4	0.1	2989.5	0.00	99.99
173.0-174.0	2.4	0.1	2989.5	0.00	99.99
174.0-175.0	2.4	0.1	2989.6	0.00	99.99
175.0-176.0	2.4	0.1	2989.7	0.00	100.00
176.0-177.0	2.4	0.0	2989.7	0.00	100.00
177.0-178.0	2.4	0.0	2989.8	0.00	100.00
178.0-179.0	2.4	0.0	2989.8	0.00	100.00
179.0-180.0	2.4	0.0	2989.8	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:

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	276.8	276.9	276.6	276.6	276.7	276.5	276.4	276.3	276.8	276.9
G1.0	277.0	277.0	276.7	276.5	276.7	276.5	276.3	276.1	276.6	276.8
G2.0	276.9	276.9	276.7	276.5	276.6	276.3	275.9	275.9	276.3	276.5
G3.0	276.7	276.8	276.4	276.4	276.4	276.0	275.6	275.5	275.9	276.0
G4.0	276.4	276.5	276.2	276.1	276.1	275.6	275.3	275.1	275.4	275.5
G5.0	276.0	276.1	275.9	275.8	275.8	275.2	274.7	274.5	274.7	274.9
G6.0	275.4	275.5	275.4	275.4	275.3	274.7	274.1	273.8	273.9	274.1
G7.0	274.8	274.9	274.9	274.9	274.8	274.1	273.3	272.9	273.1	273.3
G8.0	274.1	274.1	274.2	274.3	274.3	273.3	272.5	272.0	271.9	272.2
G9.0	273.1	273.4	273.4	273.6	273.5	272.5	271.5	271.0	270.9	271.2
G10.0	272.2	272.4	272.6	272.8	272.8	271.7	270.4	269.7	269.6	270.0
G11.0	271.1	271.3	271.6	272.0	272.0	270.7	269.4	268.5	268.2	268.7
G12.0	269.9	270.2	270.6	271.0	271.0	269.7	268.2	267.0	266.8	267.4
G13.0	268.5	268.9	269.4	270.1	270.1	268.6	266.9	265.6	265.2	265.8
G14.0	267.1	267.5	268.2	268.9	268.9	267.3	265.4	264.0	263.6	264.2
G15.0	265.5	266.1	266.9	267.7	267.8	266.0	264.1	262.4	261.9	262.6
G16.0	263.9	264.5	265.6	266.5	266.6	264.7	262.4	260.7	259.9	260.6
G17.0	262.0	262.7	263.8	265.1	265.2	263.2	260.6	258.6	257.9	258.8
G18.0	260.2	260.9	262.4	263.8	263.9	261.7	259.0	256.7	255.9	256.9
G19.0	258.2	259.0	260.6	262.1	262.4	259.9	257.0	254.6	253.5	254.7
G20.0	256.1	257.0	258.9	260.7	260.8	258.3	255.1	252.5	251.2	252.5
G21.0	254.0	255.0	257.0	259.2	259.4	256.6	253.0	250.2	248.7	250.1
G22.0	251.6	252.8	254.9	257.3	257.6	254.7	250.8	247.8	246.4	247.9
G23.0	249.2	250.5	252.9	255.4	255.9	252.8	248.8	245.4	243.8	245.4
G24.0	246.9	248.2	251.0	253.7	254.3	251.0	246.6	243.0	241.1	242.6
G25.0	244.1	245.6	248.5	251.6	252.2	248.8	244.1	240.2	238.3	240.1
G26.0	241.5	243.0	246.4	249.7	250.3	246.7	241.8	237.5	235.6	237.4
G27.0	238.6	240.3	243.9	247.5	248.1	244.4	239.1	234.6	232.4	234.6
G28.0	236.0	237.7	241.5	245.4	246.2	242.3	236.6	231.8	229.5	231.7
G29.0	233.1	234.8	239.1	243.4	244.2	240.2	234.1	228.9	226.3	228.7
G30.0	229.9	231.9	236.3	240.8	241.9	237.6	231.2	225.8	223.2	225.5
G31.0	227.0	229.1	233.9	238.7	239.8	235.3	228.6	222.8	220.2	222.8
G32.0	223.9	226.0	231.2	236.3	237.6	232.9	225.8	219.6	216.6	219.4
G33.0	220.6	222.8	228.2	233.7	235.1	230.2	222.8	216.4	213.2	216.3
G34.0	217.4	219.8	225.5	231.4	232.9	227.9	219.9	213.1	210.0	213.0
G35.0	213.9	216.3	222.5	228.6	230.2	225.0	216.8	209.6	206.3	209.4
G36.0	210.4	213.2	219.6	226.1	227.9	222.4	213.8	206.2	202.9	206.3

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 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	207.1	209.9	216.7	223.6	225.4	219.9	210.9	202.8	198.9	202.5
G38.0	203.3	206.2	213.4	220.7	222.8	216.9	207.5	199.1	195.4	199.0
G39.0	199.7	202.9	210.5	218.1	220.2	214.1	204.5	195.5	191.7	195.6
G40.0	196.0	199.1	207.2	215.1	217.4	211.1	201.1	191.6	187.4	191.7
G41.0	192.3	195.7	204.0	212.3	214.9	208.3	197.8	188.2	183.7	188.1
G42.0	188.6	192.1	200.8	209.7	212.3	205.6	194.7	184.5	179.9	184.4
G43.0	184.4	188.1	197.4	206.6	209.2	202.5	191.1	180.4	175.6	180.5
G44.0	180.6	184.4	194.3	203.6	206.5	199.6	187.8	176.8	171.9	176.9
G45.0	176.7	180.8	190.9	200.9	203.8	196.6	184.4	173.1	167.4	172.6
G46.0	172.6	176.9	187.4	197.7	200.8	193.5	181.0	168.9	163.6	168.9
G47.0	168.6	172.9	184.0	194.8	198.0	190.5	177.5	164.9	159.4	165.2
G48.0	164.3	169.0	180.4	191.6	194.9	187.3	173.9	160.8	155.1	161.0
G49.0	160.2	165.0	177.0	188.5	192.1	184.2	170.4	156.9	150.9	157.1
G50.0	156.1	161.2	173.8	185.7	189.2	181.2	167.0	153.1	146.7	153.3
G51.0	151.6	156.9	169.9	182.2	186.0	177.9	163.2	148.6	142.2	149.0
G52.0	147.5	153.0	166.6	179.1	183.1	174.8	159.7	144.8	137.9	145.2
G53.0	143.3	149.1	163.2	176.2	180.2	171.9	156.4	140.8	133.3	140.8
G54.0	138.5	144.7	159.5	172.9	177.2	168.5	152.6	136.5	129.1	136.9
G55.0	134.4	140.8	156.0	169.9	174.1	165.5	149.2	132.4	124.7	132.8
G56.0	129.7	136.4	152.3	166.6	170.8	162.2	145.6	128.2	120.0	128.6
G57.0	125.4	132.6	148.9	163.5	168.0	159.1	142.1	124.1	115.6	124.5
G58.0	121.0	128.6	145.4	160.4	165.0	156.0	138.7	120.1	111.0	120.4
G59.0	116.2	124.1	141.8	157.0	161.8	152.6	135.1	115.8	106.5	116.3
G60.0	111.9	120.2	138.4	154.1	159.0	149.6	131.7	111.8	102.0	112.3
G61.0	107.5	116.3	134.9	150.9	155.9	146.6	128.3	107.9	97.2	108.1
G62.0	102.7	112.0	131.3	147.7	152.8	143.4	124.8	103.6	92.8	104.3
G63.0	98.2	107.9	127.9	144.6	149.8	140.3	121.4	99.5	88.3	100.3
G64.0	93.4	103.7	124.3	141.4	146.7	137.1	117.8	95.4	83.5	96.2
G65.0	89.0	99.7	120.9	138.3	143.8	134.1	114.5	91.4	78.9	92.2
G66.0	84.5	95.9	117.7	135.4	140.9	131.2	111.4	87.7	74.2	88.2
G67.0	79.5	91.6	114.2	132.2	137.7	128.0	107.8	83.5	69.7	84.4
G68.0	75.1	87.7	111.0	129.2	134.8	125.0	104.7	79.7	65.5	80.8
G69.0	70.8	84.1	107.9	126.4	132.1	122.2	101.7	76.1	60.5	76.7
G70.0	65.9	79.9	104.4	123.1	128.9	119.0	98.2	72.1	56.1	73.1
G71.0	61.4	76.3	101.4	120.2	126.0	116.3	95.2	68.6	51.8	69.5
G72.0	56.6	72.1	97.9	117.0	123.0	113.0	92.0	64.7	47.3	65.8
G73.0	52.2	68.7	94.9	114.3	120.2	110.3	89.0	61.4	42.9	62.5

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	48.0	65.3	91.9	111.4	117.5	107.7	86.1	58.0	38.4	58.8
G75.0	43.2	61.5	88.7	108.4	114.6	104.6	83.0	54.5	34.4	55.6
G76.0	39.0	58.1	85.9	105.6	111.8	101.9	80.4	51.3	30.5	52.5
G77.0	35.0	55.0	83.1	103.1	109.2	99.3	77.6	48.3	26.2	49.2
G78.0	30.7	51.5	80.0	100.1	106.3	96.4	74.6	45.1	22.5	46.3
G79.0	26.8	48.4	77.3	97.5	103.7	93.8	72.0	42.2	19.0	43.4
G80.0	22.8	45.3	74.4	94.6	101.0	91.0	69.4	39.3	15.5	40.5
G81.0	19.2	42.5	71.8	92.1	98.3	88.6	66.8	36.7	12.4	38.0
G82.0	15.9	39.7	69.3	89.6	95.9	86.2	64.5	34.3	9.3	35.3
G83.0	12.4	36.9	66.6	86.8	93.2	83.4	61.8	31.7	6.8	33.0
G84.0	9.6	34.4	64.1	84.5	90.7	81.1	59.6	29.5	4.6	30.8
G85.0	6.8	31.9	61.6	81.8	88.0	78.6	57.1	27.3	2.7	28.6
G86.0	4.6	29.7	59.3	79.4	85.6	76.3	54.9	25.2	1.3	26.7
G87.0	2.9	27.5	57.1	77.2	83.4	74.1	52.9	23.4	0.4	24.8
G88.0	1.3	25.4	54.8	74.7	80.8	71.7	50.6	21.4	0.1	23.0
G89.0	0.4	23.6	52.6	72.5	78.6	69.5	48.7	19.8	0.1	21.4
G90.0	0.1	21.8	50.5	70.3	76.4	67.4	46.8	18.2	0.1	19.8
G91.0	0.2	20.0	48.3	68.0	74.0	65.2	44.7	16.8	0.1	18.4
G92.0	0.2	18.4	46.5	65.9	71.8	63.0	43.0	15.5	0.2	17.2
G93.0	0.2	16.9	44.5	63.6	69.6	60.9	41.0	14.3	0.2	16.0
G94.0	0.2	15.6	42.6	61.7	67.6	59.0	39.4	13.3	0.2	14.9
G95.0	0.3	14.5	40.8	59.7	65.5	57.1	37.8	12.4	0.2	13.8
G96.0	0.3	13.4	39.0	57.5	63.3	55.1	36.1	11.5	0.3	12.8
G97.0	0.3	12.5	37.4	55.7	61.5	53.4	34.6	10.7	0.3	12.0
G98.0	0.3	11.6	35.8	53.8	59.5	51.5	33.1	10.1	0.3	11.2
G99.0	0.4	10.8	34.2	51.9	57.5	49.7	31.6	9.3	0.3	10.5
G100.0	0.4	10.0	32.8	50.1	55.8	48.1	30.3	8.7	0.4	9.9
G101.0	0.4	9.4	31.2	48.3	53.7	46.2	29.0	8.2	0.4	9.2
G102.0	0.4	8.8	30.0	46.6	52.1	44.6	27.7	7.7	0.4	8.7
G103.0	0.5	8.2	28.7	45.1	50.3	43.1	26.6	7.2	0.4	8.1
G104.0	0.5	7.7	27.4	43.4	48.5	41.4	25.4	6.8	0.5	7.7
G105.0	0.5	7.3	26.2	41.8	46.9	39.9	24.3	6.5	0.5	7.3
G106.0	0.6	6.9	25.2	40.3	45.2	38.5	23.3	6.1	0.5	6.9
G107.0	0.6	6.5	24.0	38.7	43.6	37.0	22.2	5.8	0.6	6.5
G108.0	0.6	6.1	22.9	37.3	42.0	35.7	21.3	5.6	0.6	6.2
G109.0	0.6	5.8	21.8	35.8	40.5	34.3	20.3	5.3	0.6	5.9
G110.0	0.7	5.6	21.0	34.4	39.0	32.9	19.4	5.1	0.6	5.6

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	0.7	5.3	20.0	33.2	37.6	31.8	18.5	4.9	0.7	5.4
G112.0	0.7	5.1	19.0	31.8	36.1	30.4	17.7	4.7	0.7	5.1
G113.0	0.8	4.9	18.3	30.6	34.8	29.3	17.0	4.5	0.7	4.9
G114.0	0.8	4.7	17.5	29.4	33.5	28.1	16.2	4.4	0.8	4.7
G115.0	0.8	4.5	16.7	28.2	32.1	26.9	15.5	4.2	0.8	4.5
G116.0	0.9	4.4	15.9	27.1	31.0	25.9	14.8	4.1	0.8	4.3
G117.0	1.0	4.2	15.1	25.9	29.7	24.8	14.1	3.9	0.9	4.2
G118.0	1.0	4.1	14.4	24.9	28.5	23.8	13.5	3.8	0.9	4.0
G119.0	1.0	3.9	13.7	23.9	27.4	22.8	13.0	3.7	0.9	3.8
G120.0	1.0	3.8	13.0	22.8	26.3	21.9	12.4	3.5	1.0	3.7
G121.0	1.0	3.6	12.5	21.8	25.2	21.0	11.9	3.4	1.0	3.6
G122.0	1.1	3.5	11.9	21.0	24.2	20.1	11.4	3.4	1.0	3.5
G123.0	1.1	3.4	11.3	20.1	23.1	19.2	10.9	3.3	1.1	3.4
G124.0	1.1	3.3	10.8	19.3	22.1	18.5	10.5	3.2	1.1	3.3
G125.0	1.2	3.3	10.2	18.4	21.2	17.6	9.7	3.1	1.1	3.2
G126.0	1.2	3.2	9.6	17.6	20.3	16.9	9.3	3.1	1.2	3.1
G127.0	1.3	3.2	9.2	16.8	19.4	16.3	8.8	3.1	1.2	3.1
G128.0	1.3	3.1	8.7	16.0	18.5	15.4	8.5	3.0	1.2	3.0
G129.0	1.3	3.1	8.2	15.3	17.7	14.8	8.1	3.0	1.3	2.9
G130.0	1.3	3.0	8.0	14.6	16.9	14.0	7.8	2.9	1.3	2.8
G131.0	1.4	3.0	7.7	14.1	16.2	13.5	7.6	2.9	1.3	2.8
G132.0	1.4	2.9	7.7	13.4	15.5	12.9	7.3	2.8	1.3	2.8
G133.0	1.4	2.8	7.3	12.6	14.7	12.0	7.0	2.7	1.4	2.7
G134.0	1.5	2.8	7.1	11.9	14.0	11.4	6.7	2.8	1.4	2.7
G135.0	1.5	2.8	6.8	11.3	13.3	10.9	6.5	2.7	1.5	2.6
G136.0	1.6	2.7	6.5	10.8	12.5	10.4	6.2	2.7	1.5	2.6
G137.0	1.6	2.7	6.3	10.3	11.8	9.9	6.0	2.7	1.6	2.6
G138.0	1.6	2.6	6.1	9.7	11.3	9.5	5.8	2.6	1.6	2.6
G139.0	1.6	2.6	5.8	9.3	10.8	9.1	5.5	2.6	1.6	2.5
G140.0	1.7	2.6	5.6	8.9	10.3	8.7	5.4	2.6	1.6	2.5
G141.0	1.7	2.5	5.4	8.3	9.7	8.2	5.2	2.6	1.7	2.5
G142.0	1.7	2.5	5.2	8.0	9.3	7.9	5.0	2.6	1.7	2.5
G143.0	1.8	2.5	5.0	7.6	8.9	7.6	4.9	2.5	1.7	2.4
G144.0	1.8	2.5	4.7	7.2	8.4	7.2	4.7	2.5	1.7	2.4
G145.0	1.8	2.5	4.5	6.9	8.0	6.9	4.5	2.5	1.8	2.4
G146.0	1.8	2.4	4.3	6.5	7.6	6.5	4.4	2.4	1.8	2.4
G147.0	1.9	2.4	4.2	6.2	7.2	6.3	4.3	2.5	1.8	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:

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

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Page 26 of 31 Pages

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	2.4	4.0	6.0	6.9	6.0	4.1	2.4	1.8	2.3
G149.0	1.9	2.4	3.8	5.7	6.5	5.7	4.0	2.4	1.9	2.3
G150.0	1.9	2.4	3.7	5.5	6.3	5.5	3.8	2.4	1.9	2.3
G151.0	2.0	2.4	3.6	5.2	5.9	5.3	3.7	2.4	1.9	2.3
G152.0	2.0	2.4	3.5	5.0	5.6	5.0	3.6	2.4	1.9	2.3
G153.0	2.0	2.4	3.5	4.7	5.4	4.8	3.5	2.4	2.0	2.2
G154.0	2.0	2.4	3.3	4.6	5.1	4.6	3.5	2.4	2.0	2.2
G155.0	2.1	2.4	3.3	4.4	4.9	4.4	3.3	2.4	2.0	2.2
G156.0	2.1	2.4	3.2	4.2	4.6	4.2	3.2	2.4	2.0	2.2
G157.0	2.1	2.4	3.1	4.1	4.4	4.0	3.2	2.4	2.0	2.2
G158.0	2.1	2.4	3.1	3.9	4.2	3.9	3.1	2.4	2.1	2.2
G159.0	2.1	2.4	3.0	3.7	4.1	3.7	3.0	2.4	2.1	2.2
G160.0	2.2	2.4	2.9	3.5	3.9	3.6	3.0	2.4	2.1	2.2
G161.0	2.2	2.4	2.9	3.4	3.7	3.5	2.9	2.4	2.1	2.2
G162.0	2.2	2.4	2.8	3.2	3.5	3.4	2.8	2.4	2.1	2.2
G163.0	2.2	2.4	2.7	3.1	3.4	3.2	2.8	2.4	2.1	2.2
G164.0	2.2	2.4	2.7	3.0	3.2	3.1	2.7	2.4	2.1	2.2
G165.0	2.2	2.4	2.7	2.9	3.1	3.0	2.7	2.4	2.2	2.2
G166.0	2.2	2.4	2.6	2.9	3.0	3.0	2.6	2.4	2.2	2.2
G167.0	2.3	2.4	2.6	2.8	2.9	2.8	2.6	2.4	2.2	2.3
G168.0	2.3	2.4	2.6	2.7	2.8	2.8	2.6	2.5	2.2	2.2
G169.0	2.3	2.4	2.6	2.7	2.7	2.7	2.6	2.4	2.2	2.3
G170.0	2.3	2.4	2.5	2.6	2.7	2.7	2.5	2.5	2.2	2.3
G171.0	2.3	2.4	2.5	2.6	2.6	2.7	2.5	2.4	2.2	2.3
G172.0	2.3	2.4	2.5	2.6	2.6	2.6	2.5	2.4	2.3	2.3
G173.0	2.4	2.4	2.5	2.5	2.5	2.6	2.5	2.4	2.3	2.3
G174.0	2.4	2.4	2.5	2.5	2.5	2.6	2.5	2.4	2.3	2.3
G175.0	2.4	2.4	2.5	2.5	2.5	2.6	2.5	2.4	2.3	2.3
G176.0	2.4	2.3	2.5	2.5	2.5	2.5	2.4	2.4	2.3	2.3
G177.0	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.3	2.4
G178.0	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.3	2.3
G179.0	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.3	2.4
G180.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	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:



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Page 27 of 31 Pages

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	276.6	276.6	276.7	276.5	276.4	276.3	276.8			
G1.0	276.5	276.4	276.6	276.5	276.3	276.4	277.0			
G2.0	276.2	276.2	276.6	276.5	276.3	276.3	276.9			
G3.0	275.9	276.0	276.3	276.2	276.1	276.0	276.7			
G4.0	275.4	275.6	275.9	276.0	275.8	275.8	276.4			
G5.0	274.9	275.1	275.6	275.7	275.5	275.3	276.0			
G6.0	274.2	274.5	275.0	275.2	275.0	274.8	275.4			
G7.0	273.5	273.9	274.5	274.7	274.5	274.2	274.8			
G8.0	272.6	273.1	273.8	274.0	273.8	273.5	274.1			
G9.0	271.7	272.4	273.1	273.5	273.0	272.5	273.1			
G10.0	270.7	271.5	272.3	272.8	272.1	271.6	272.2			
G11.0	269.5	270.5	271.3	271.8	271.2	270.5	271.1			
G12.0	268.2	269.4	270.4	270.9	270.1	269.3	269.9			
G13.0	266.9	268.2	269.3	269.7	269.0	267.9	268.5			
G14.0	265.4	267.0	268.3	268.6	267.7	266.6	267.1			
G15.0	264.1	265.8	267.2	267.5	266.4	265.1	265.5			
G16.0	262.3	264.3	265.8	266.1	264.9	263.4	263.9			
G17.0	260.9	263.0	264.4	264.7	263.4	261.7	262.0			
G18.0	259.0	261.4	263.0	263.3	261.8	260.0	260.2			
G19.0	257.0	259.7	261.5	261.8	260.0	258.0	258.2			
G20.0	255.1	258.1	259.9	260.2	258.2	256.0	256.1			
G21.0	253.0	256.2	258.1	258.4	256.3	253.7	254.0			
G22.0	250.9	254.4	256.5	256.7	254.4	251.7	251.6			
G23.0	248.8	252.5	254.8	255.0	252.4	249.4	249.2			
G24.0	246.4	250.4	252.8	253.0	250.1	247.0	246.9			
G25.0	244.2	248.5	251.1	251.2	247.9	244.6	244.1			
G26.0	241.7	246.4	249.0	249.1	245.8	242.2	241.5			
G27.0	239.1	244.1	246.9	246.8	243.2	239.2	238.6			
G28.0	236.8	241.9	244.9	244.8	240.8	236.6	236.0			
G29.0	234.0	239.5	242.7	242.5	238.1	233.7	233.1			
G30.0	231.3	237.2	240.6	240.2	235.7	230.9	229.9			
G31.0	228.6	234.9	238.4	238.0	233.2	228.0	227.0			
G32.0	225.7	232.3	235.9	235.5	230.3	224.8	223.9			
G33.0	222.8	229.8	233.6	233.1	227.7	221.7	220.6			
G34.0	220.0	227.3	231.3	230.6	224.9	218.8	217.4			
G35.0	216.9	224.6	228.7	228.1	221.8	215.4	213.9			
G36.0	213.8	222.1	226.3	225.4	219.0	212.1	210.4			

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	210.7	219.1	223.6	222.6	215.8	208.7	207.1			
G38.0	207.5	216.4	220.9	220.0	212.8	205.3	203.3			
G39.0	204.5	213.8	218.6	217.4	209.8	202.0	199.7			
G40.0	200.9	210.8	215.7	214.4	206.4	198.1	196.0			
G41.0	197.9	207.9	213.1	211.7	203.4	194.7	192.3			
G42.0	194.7	205.1	210.5	209.0	200.2	191.1	188.6			
G43.0	191.2	202.1	207.5	205.9	196.8	187.4	184.4			
G44.0	187.9	199.3	204.8	203.0	193.5	183.7	180.6			
G45.0	184.4	196.1	201.9	199.9	190.1	179.8	176.7			
G46.0	181.2	193.3	199.1	197.2	186.8	175.9	172.6			
G47.0	177.8	190.2	196.4	194.2	183.6	172.3	168.6			
G48.0	174.2	187.1	193.4	191.1	180.1	168.3	164.3			
G49.0	170.8	184.2	190.6	188.2	176.7	164.5	160.2			
G50.0	167.5	181.2	187.7	185.1	173.4	160.6	156.1			
G51.0	163.9	178.0	184.7	182.0	169.8	156.3	151.6			
G52.0	160.4	175.0	181.7	179.0	166.3	152.6	147.5			
G53.0	156.7	171.7	178.7	175.8	162.7	148.3	143.3			
G54.0	153.2	168.8	175.7	172.9	159.4	144.5	138.5			
G55.0	150.0	165.7	172.9	169.8	156.0	140.5	134.4			
G56.0	146.2	162.5	169.9	166.6	152.4	136.4	129.7			
G57.0	142.9	159.4	167.0	163.5	148.9	132.4	125.4			
G58.0	139.3	156.4	163.8	160.3	145.4	128.1	121.0			
G59.0	136.0	153.3	161.0	157.3	141.9	124.1	116.2			
G60.0	132.6	150.3	158.1	154.3	138.6	120.1	111.9			
G61.0	129.1	147.1	155.0	151.0	134.9	115.8	107.5			
G62.0	125.7	144.1	152.1	148.1	131.6	111.9	102.7			
G63.0	122.5	141.1	149.3	145.1	128.3	108.1	98.2			
G64.0	118.9	138.0	146.2	142.0	124.8	103.8	93.4			
G65.0	115.8	135.1	143.4	138.9	121.5	99.8	89.0			
G66.0	112.4	132.0	140.4	135.9	118.1	95.7	84.5			
G67.0	109.2	129.1	137.5	133.0	114.9	91.9	79.5			
G68.0	106.0	126.2	134.6	130.1	111.6	88.0	75.1			
G69.0	102.7	123.2	131.6	126.9	108.4	84.0	70.8			
G70.0	99.7	120.3	128.9	124.2	105.2	80.2	65.9			
G71.0	96.8	117.6	126.2	121.3	102.1	76.6	61.4			
G72.0	93.6	114.6	123.2	118.3	98.9	72.7	56.6			
G73.0	90.7	111.9	120.4	115.4	95.8	69.1	52.2			

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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Page 29 of 31 Pages

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	87.7	108.9	117.6	112.6	92.7	65.4	48.0			
G75.0	84.9	106.3	115.0	109.8	89.8	62.0	43.2			
G76.0	82.2	103.7	112.4	107.2	87.1	58.6	39.0			
G77.0	79.2	100.8	109.6	104.3	84.0	55.2	35.0			
G78.0	76.5	98.4	107.0	101.8	81.2	52.0	30.7			
G79.0	74.0	95.8	104.4	99.1	78.6	49.0	26.8			
G80.0	71.3	93.1	101.8	96.4	75.8	45.9	22.8			
G81.0	68.9	90.5	99.3	93.9	73.2	43.2	19.2			
G82.0	66.3	88.0	96.6	91.3	70.5	40.1	15.9			
G83.0	64.0	85.6	94.2	88.8	68.1	37.6	12.4			
G84.0	61.6	83.4	91.8	86.5	65.6	35.2	9.6			
G85.0	59.3	80.8	89.4	83.9	63.2	32.7	6.8			
G86.0	57.1	78.6	87.0	81.5	60.9	30.5	4.6			
G87.0	55.0	76.4	84.7	79.3	58.8	28.5	2.9			
G88.0	52.7	74.0	82.3	76.9	56.4	26.3	1.3			
G89.0	50.8	71.9	80.0	74.6	54.3	24.5	0.4			
G90.0	48.8	69.6	77.7	72.3	52.1	22.7	0.1			
G91.0	47.0	67.6	75.5	70.1	50.2	21.1	0.2			
G92.0	45.1	65.5	73.4	68.1	48.2	19.6	0.2			
G93.0	43.2	63.3	71.2	65.9	46.2	18.2	0.2			
G94.0	41.6	61.4	69.1	63.9	44.4	17.0	0.2			
G95.0	40.0	59.5	67.1	61.9	42.7	15.8	0.3			
G96.0	38.1	57.4	65.0	59.8	40.9	14.6	0.3			
G97.0	36.7	55.6	63.1	57.9	39.2	13.6	0.3			
G98.0	35.1	53.7	60.9	55.9	37.6	12.7	0.3			
G99.0	33.6	52.0	59.1	54.1	36.1	11.8	0.4			
G100.0	32.3	50.3	57.4	52.4	34.5	11.1	0.4			
G101.0	31.0	48.5	55.4	50.5	33.0	10.4	0.4			
G102.0	29.7	46.8	53.7	48.8	31.7	9.7	0.4			
G103.0	28.3	45.1	51.8	47.0	30.4	9.1	0.5			
G104.0	27.1	43.6	50.1	45.4	29.0	8.6	0.5			
G105.0	26.1	42.1	48.5	43.9	27.9	8.1	0.5			
G106.0	24.9	40.4	46.7	42.2	26.5	7.6	0.6			
G107.0	23.9	39.1	45.2	40.7	25.4	7.2	0.6			
G108.0	22.8	37.6	43.6	39.3	24.4	6.8	0.6			
G109.0	21.8	36.2	42.0	37.8	23.3	6.5	0.6			
G110.0	20.9	34.9	40.5	36.4	22.3	6.2	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:

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Page 30 of 31 Pages

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	19.9	33.5	39.0	35.0	21.3	5.8	0.7			
G112.0	19.1	32.3	37.6	33.7	20.4	5.6	0.7			
G113.0	18.3	31.0	36.3	32.4	19.5	5.4	0.8			
G114.0	17.5	29.8	34.8	31.0	18.6	5.1	0.8			
G115.0	16.7	28.6	33.5	29.9	17.8	4.9	0.8			
G116.0	16.1	27.6	32.3	28.8	17.1	4.7	0.9			
G117.0	15.4	26.4	31.0	27.5	16.3	4.5	1.0			
G118.0	14.7	25.3	29.8	26.5	15.6	4.4	1.0			
G119.0	14.0	24.2	28.6	25.3	14.9	4.2	1.0			
G120.0	13.4	23.3	27.5	24.3	14.3	4.0	1.0			
G121.0	12.8	22.4	26.4	23.3	13.6	3.9	1.0			
G122.0	12.3	21.4	25.2	22.3	13.0	3.7	1.1			
G123.0	11.7	20.5	24.2	21.4	12.5	3.6	1.1			
G124.0	11.3	19.7	23.2	20.5	12.0	3.5	1.1			
G125.0	10.5	18.8	22.2	19.6	11.4	3.4	1.2			
G126.0	10.0	18.0	21.3	18.8	10.7	3.4	1.2			
G127.0	9.4	17.2	20.3	17.9	10.1	3.3	1.3			
G128.0	9.1	16.3	19.5	17.1	9.5	3.2	1.3			
G129.0	8.7	15.7	18.6	16.3	9.1	3.1	1.3			
G130.0	8.3	15.1	17.7	15.6	8.8	3.0	1.3			
G131.0	8.0	14.3	17.0	14.9	8.4	2.9	1.4			
G132.0	7.7	13.7	16.2	14.3	8.1	2.9	1.4			
G133.0	7.3	12.8	15.4	13.6	7.7	2.9	1.4			
G134.0	7.1	12.1	14.7	12.7	7.4	2.8	1.5			
G135.0	6.8	11.5	13.8	12.0	7.1	2.7	1.5			
G136.0	6.5	11.0	13.0	11.4	6.8	2.7	1.6			
G137.0	6.3	10.5	12.4	10.9	6.6	2.7	1.6			
G138.0	6.0	10.0	11.8	10.4	6.3	2.6	1.6			
G139.0	5.8	9.5	11.2	9.9	6.1	2.5	1.6			
G140.0	5.6	9.1	10.7	9.5	5.8	2.5	1.7			
G141.0	5.3	8.6	10.1	9.0	5.5	2.5	1.7			
G142.0	5.1	8.2	9.6	8.6	5.3	2.5	1.7			
G143.0	5.0	7.8	9.1	8.1	5.1	2.4	1.8			
G144.0	4.8	7.5	8.7	7.8	4.8	2.4	1.8			
G145.0	4.6	7.1	8.2	7.4	4.6	2.4	1.8			
G146.0	4.4	6.8	7.8	7.0	4.3	2.4	1.8			
G147.0	4.2	6.5	7.4	6.7	4.1	2.4	1.9			

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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Page 31 of 31 Pages

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	4.0	6.1	7.0	6.4	3.9	2.4	1.9			
G149.0	4.0	5.8	6.7	6.1	3.7	2.3	1.9			
G150.0	3.8	5.6	6.4	5.8	3.6	2.3	1.9			
G151.0	3.7	5.3	6.0	5.5	3.5	2.3	2.0			
G152.0	3.5	5.0	5.7	5.3	3.4	2.3	2.0			
G153.0	3.5	4.7	5.4	5.0	3.3	2.3	2.0			
G154.0	3.4	4.5	5.1	4.8	3.2	2.3	2.0			
G155.0	3.3	4.3	4.8	4.6	3.1	2.3	2.1			
G156.0	3.2	4.1	4.6	4.3	3.0	2.3	2.1			
G157.0	3.1	4.0	4.4	4.2	3.0	2.2	2.1			
G158.0	3.0	3.8	4.2	4.0	2.9	2.3	2.1			
G159.0	2.9	3.6	4.0	3.7	2.8	2.2	2.1			
G160.0	2.8	3.5	3.8	3.5	2.8	2.2	2.2			
G161.0	2.7	3.4	3.6	3.3	2.7	2.3	2.2			
G162.0	2.7	3.2	3.4	3.1	2.7	2.2	2.2			
G163.0	2.6	3.1	3.3	3.0	2.6	2.2	2.2			
G164.0	2.5	3.0	3.1	2.9	2.5	2.3	2.2			
G165.0	2.5	2.8	3.0	2.8	2.5	2.2	2.2			
G166.0	2.5	2.8	2.9	2.8	2.5	2.3	2.2			
G167.0	2.4	2.7	2.8	2.7	2.4	2.3	2.3			
G168.0	2.4	2.6	2.7	2.6	2.4	2.3	2.3			
G169.0	2.4	2.5	2.6	2.6	2.4	2.3	2.3			
G170.0	2.4	2.5	2.5	2.5	2.4	2.3	2.3			
G171.0	2.3	2.4	2.4	2.5	2.3	2.3	2.3			
G172.0	2.3	2.4	2.4	2.5	2.3	2.3	2.3			
G173.0	2.3	2.4	2.4	2.4	2.3	2.3	2.4			
G174.0	2.3	2.3	2.4	2.4	2.3	2.4	2.4			
G175.0	2.3	2.4	2.4	2.4	2.3	2.4	2.4			
G176.0	2.4	2.4	2.4	2.4	2.3	2.4	2.4			
G177.0	2.4	2.4	2.4	2.4	2.4	2.3	2.4			
G178.0	2.4	2.4	2.4	2.4	2.4	2.4	2.4			
G179.0	2.4	2.4	2.4	2.5	2.4	2.4	2.4			
G180.0	2.4	2.4	2.4	2.5	2.4	2.4	2.4			

C Plane (°):0.0-360.0: 22.5

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