

Report No.: 1809271324

Test Time: 2018-09-27 13:36

Luminaire Property

Luminaire Manufacturer:

Number of Lamps: 1

Luminous Width (mm): 110

Voltage: 220.6 V

Power: 25.44 W

Luminous Length (mm): 1525

Luminous Height (mm): 90

Current: 0.118 A

Power Factor: 0.977

Photometric Results

CIE Class: Direct

Measurement Flux: 2820.5 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 158.4, 181.7, 179.8, 179.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 108.9, 110.9, 114.3, 114.6

Luminaire Efficacy Rating (LER): 110.92

Max. Intensity: 350.82 cd/klm

S/MH(C0/C180): 1.23

Total Rated Lamp Lumens: 2820.5 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 276.93 cd/klm

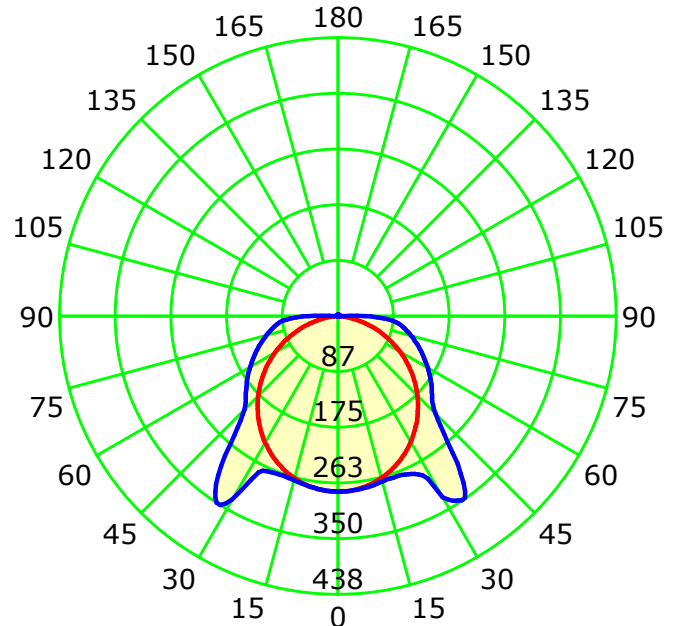
Pos of Max. Intensity: H270 V33

S/MH(C90/C270): 1.61

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd/klm

Average Diffuse Angle(50%): 109.9°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

Gamma Plane (°):0.0-180.0:1.0

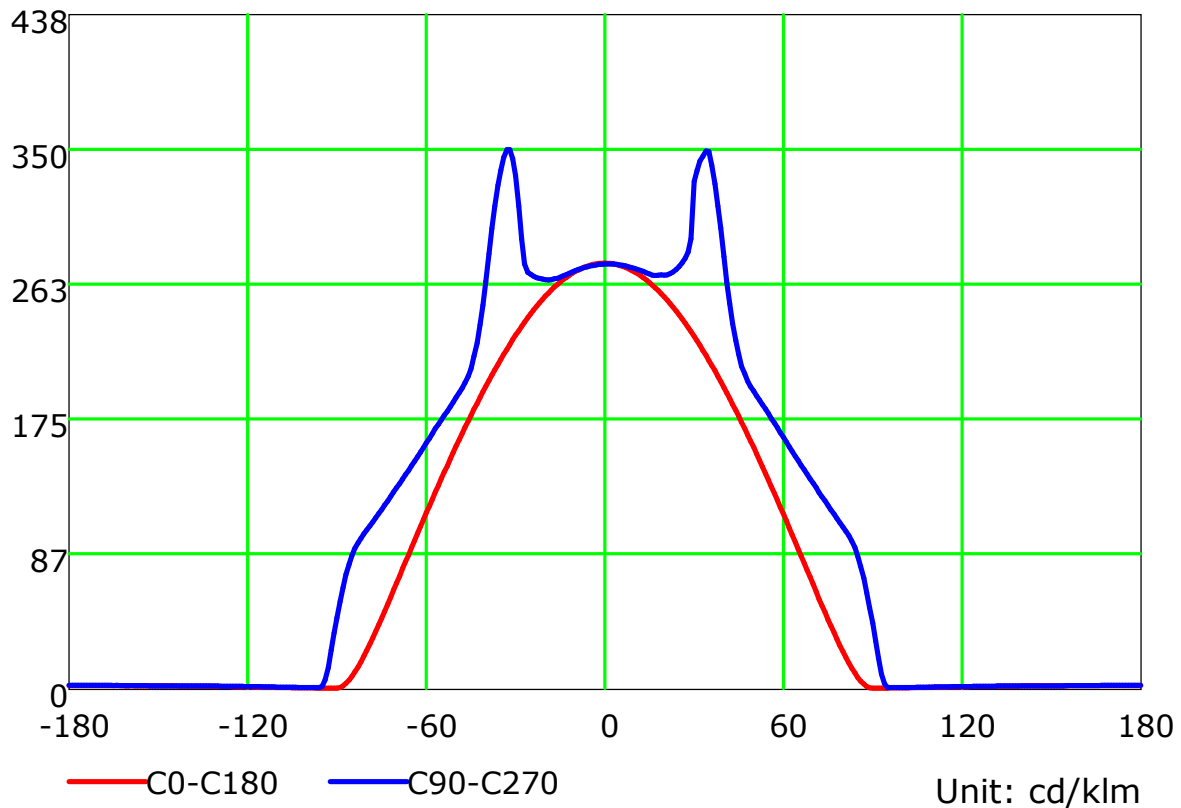
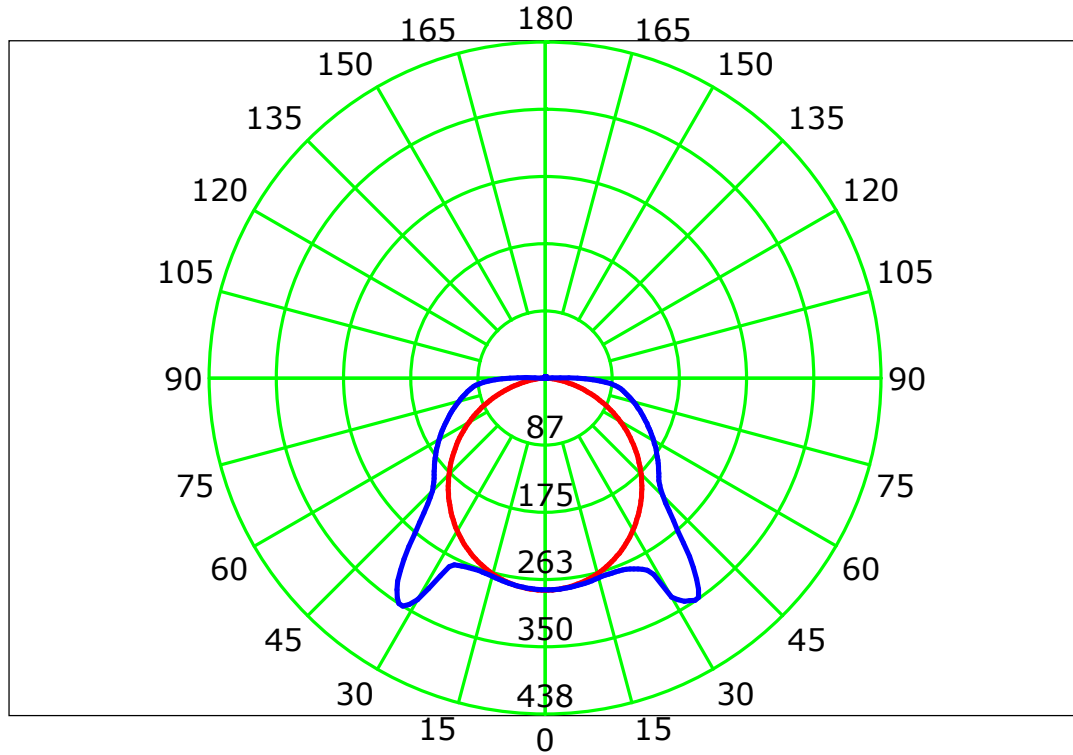
Test Device: LSG-1700B

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: 24

Operator: S.DURDURAN

Gamma Plane (°):0.0-180.0:1.0

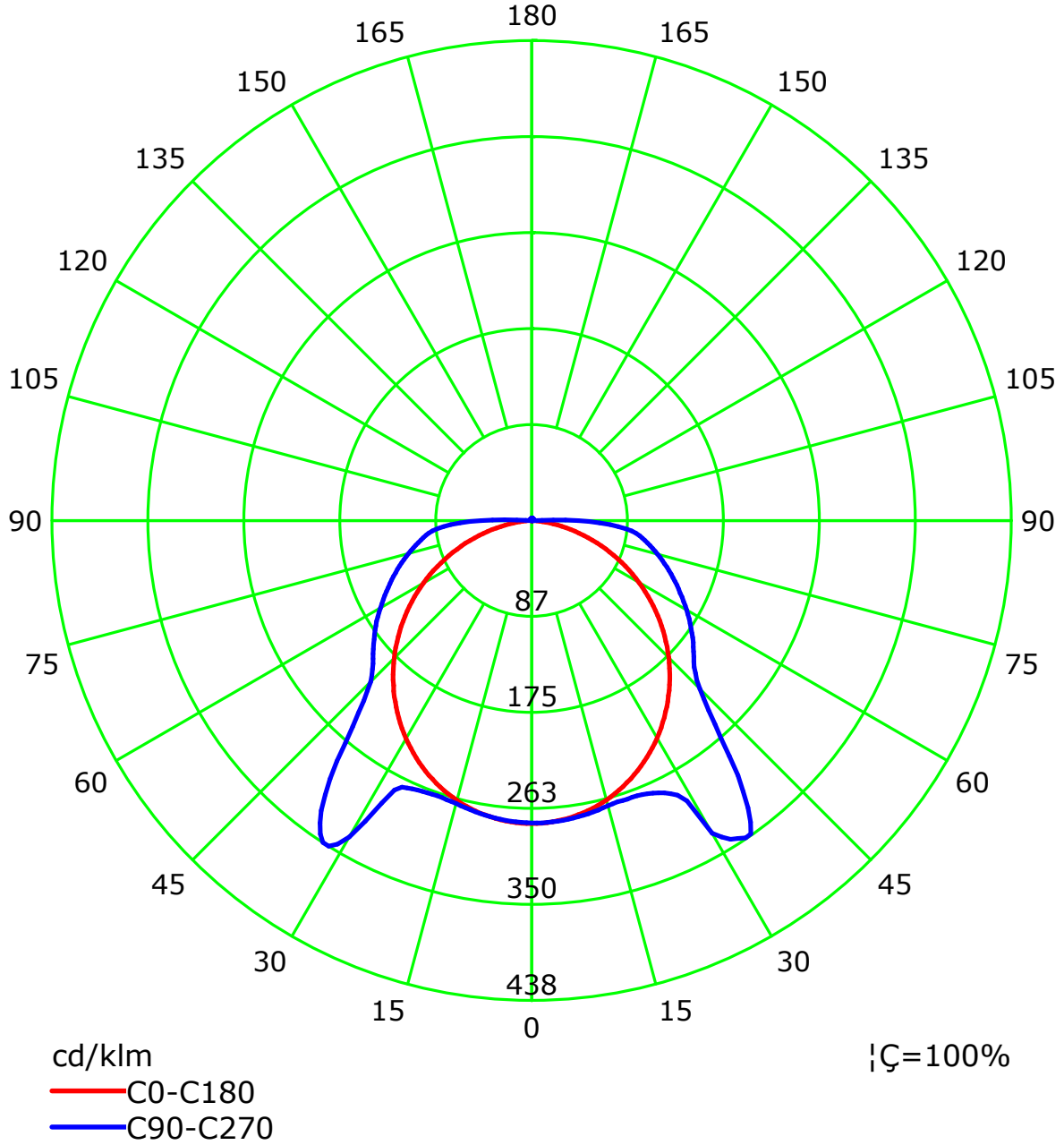
Test Device: LSG-1700B

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: 24

Operator: S.DURDURAN

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:



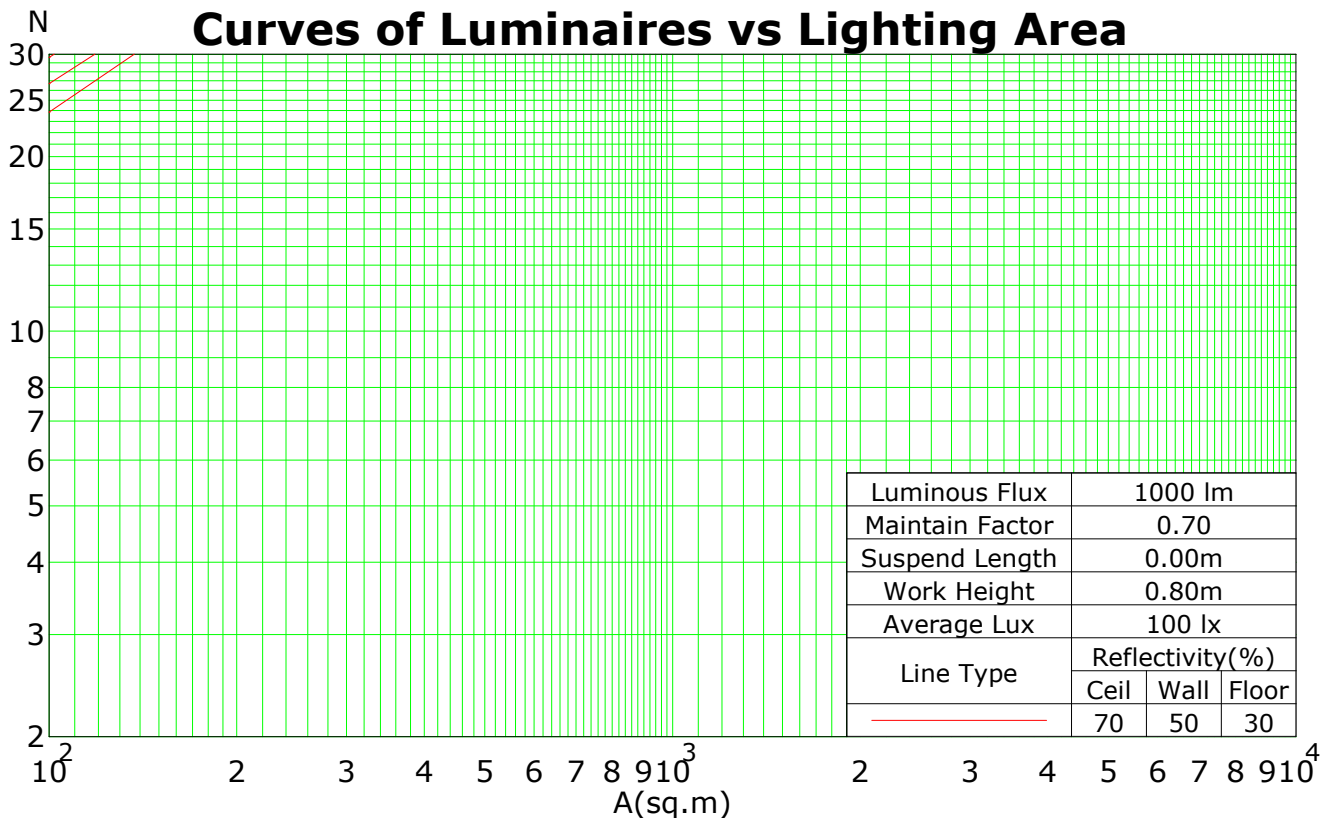
Coefficients Of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	106	101	96	91	103	98	94	89	94	90	86	89	86	83	86	83	81	78
2	96	87	79	73	93	85	78	72	81	75	70	77	72	68	74	70	66	64
3	87	75	67	59	84	74	65	59	70	63	58	67	61	56	65	60	55	53
4	79	66	57	50	77	65	56	49	62	55	48	60	53	48	57	52	47	44
5	73	59	50	42	70	58	49	42	56	48	42	53	46	41	51	45	40	38
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	46	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	58	44	35	29	56	43	34	28	41	34	28	40	33	28	39	32	28	26
9	54	40	31	26	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	22	21

Spacing Criteria (0-180): 1.23

Spacing Criteria (90-270): 1.61

Spacing Criteria (Diagonal): 1.60



C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

Gamma Plane (°):0.0-180.0:1.0

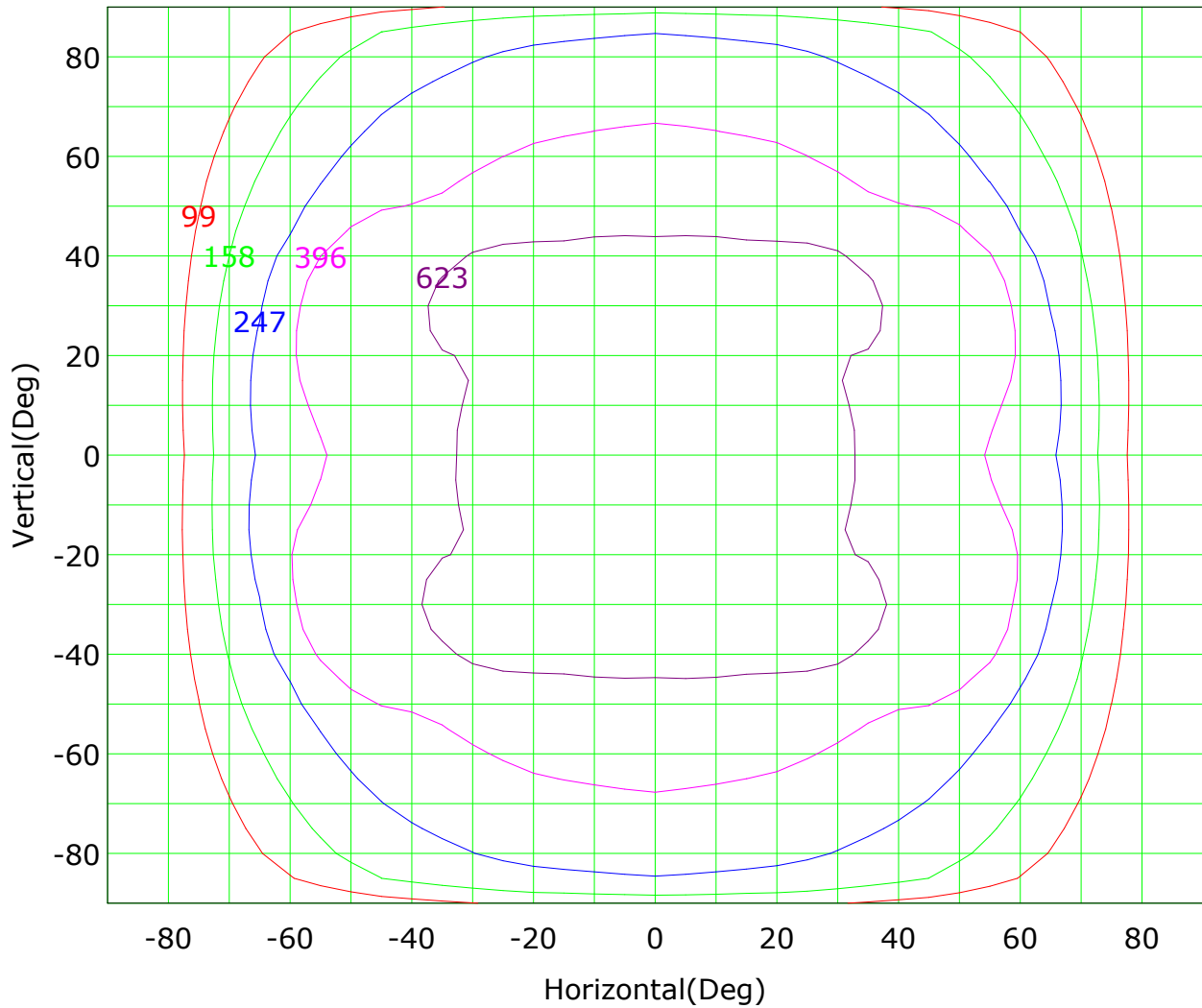
Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

Isocandela (rectangle)



Imax (100%): 989 cd

(10%): 99 cd
(25%): 247 cd
(63%): 623 cd

(16%): 158 cd
(40%): 396 cd
(100%): 989 cd

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

Gamma Plane (°):0.0-180.0:1.0

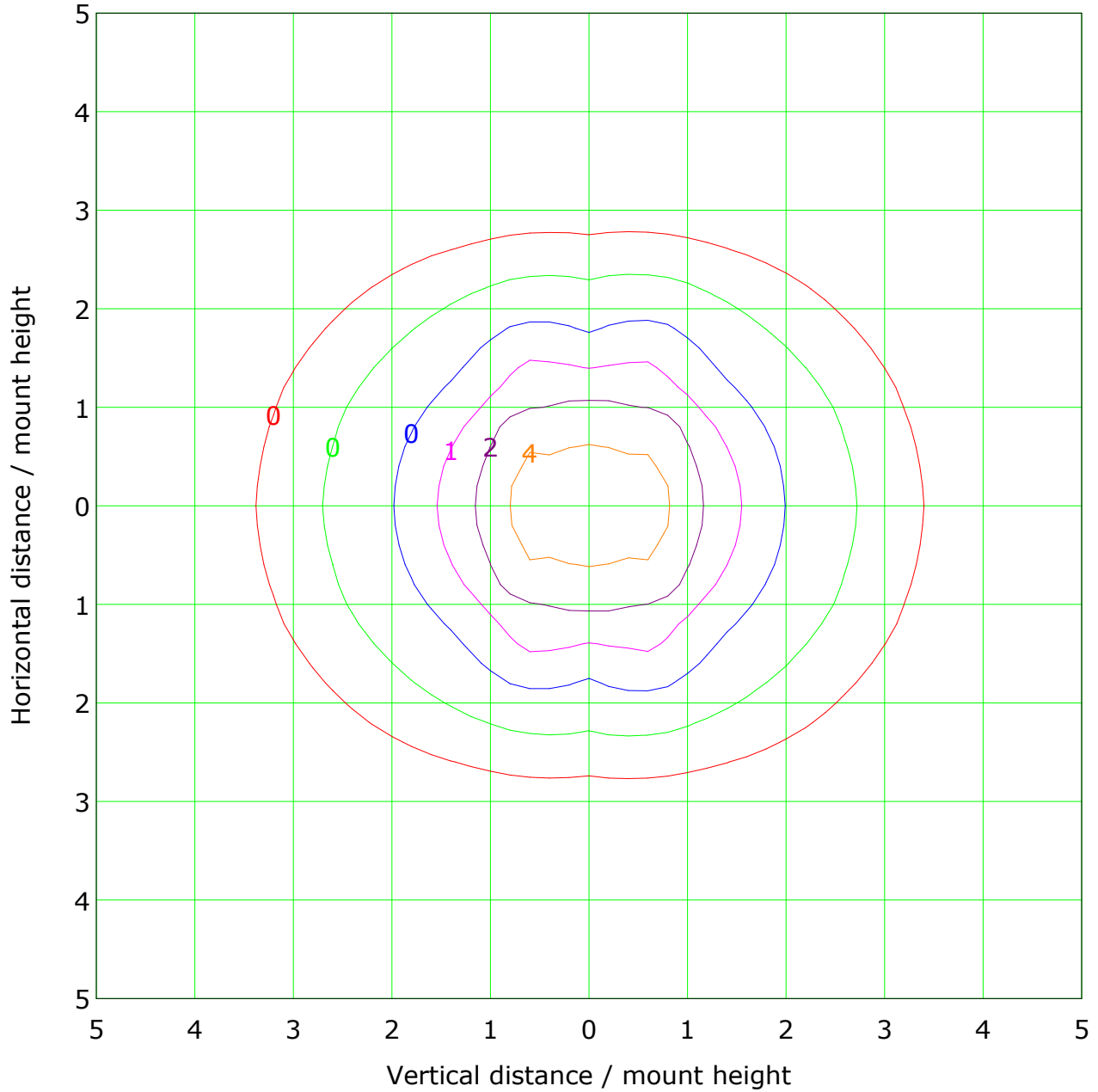
Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 7.8 lx

(1%): 0.1 lx	(2%): 0.2 lx
(5%): 0.4 lx	(10%): 0.8 lx
(20%): 1.6 lx	(50%): 3.9 lx
(100%): 7.8 lx	

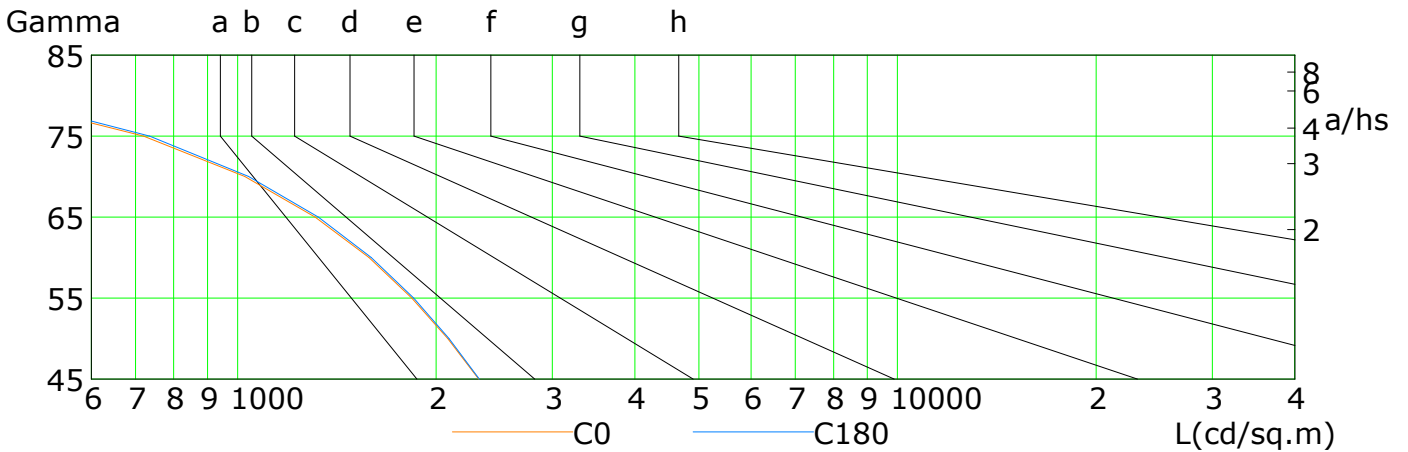
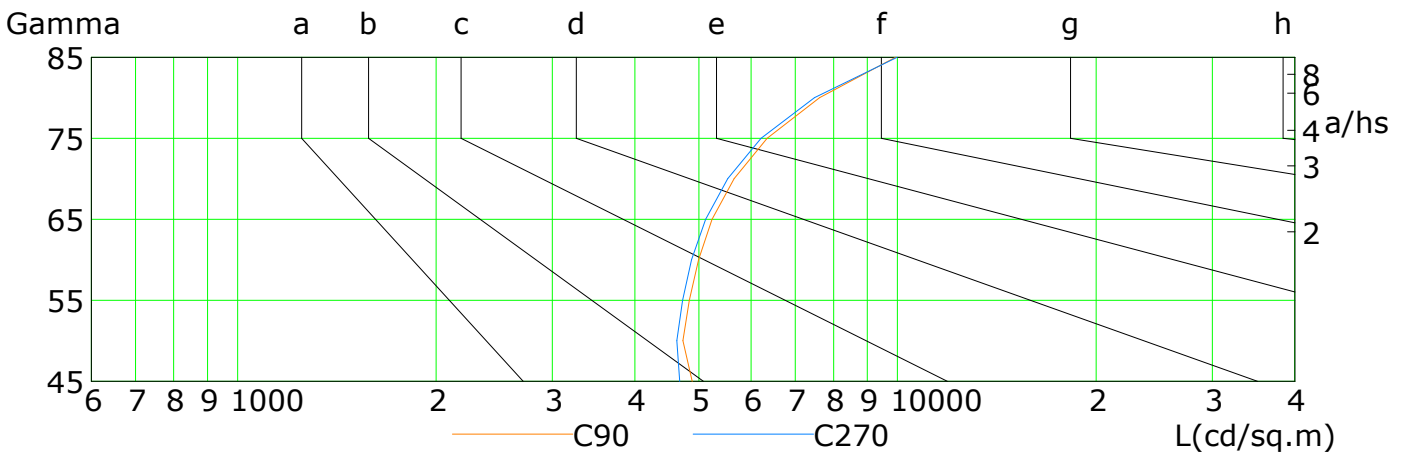
C Plane (°):0.0-360.0: 22.5
 Test Lab: KARMA
 Test Type: TYPE C
 Temperature: 24
 Operator: S.DURDURAN

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

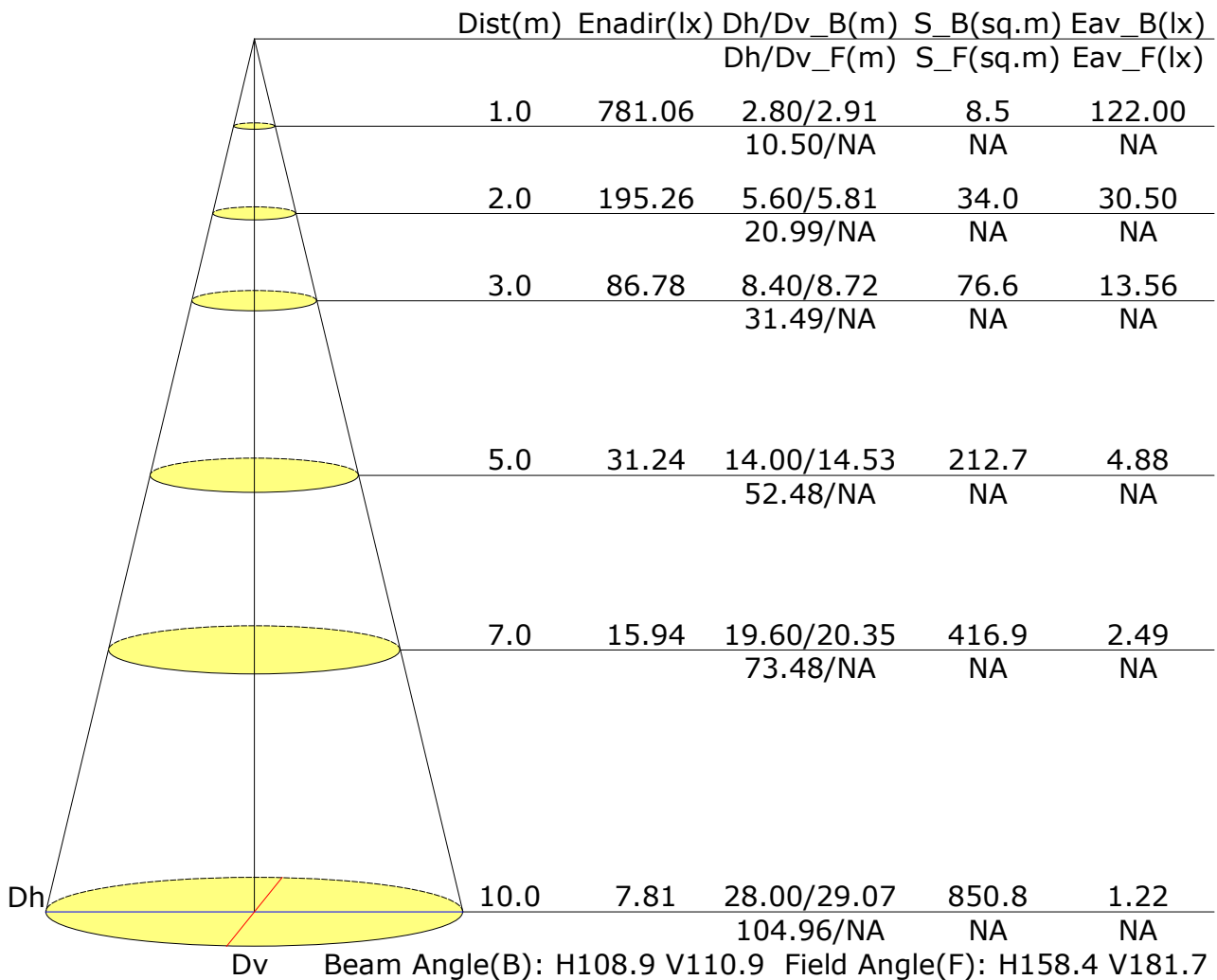


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	2320	2080	1836	1581	1310	1025	720	412	136
C90	4887	4730	4838	4993	5238	5654	6346	7620	9929
C180	2325	2091	1848	1593	1326	1039	736	427	149
C270	4676	4632	4727	4877	5121	5531	6211	7482	9985

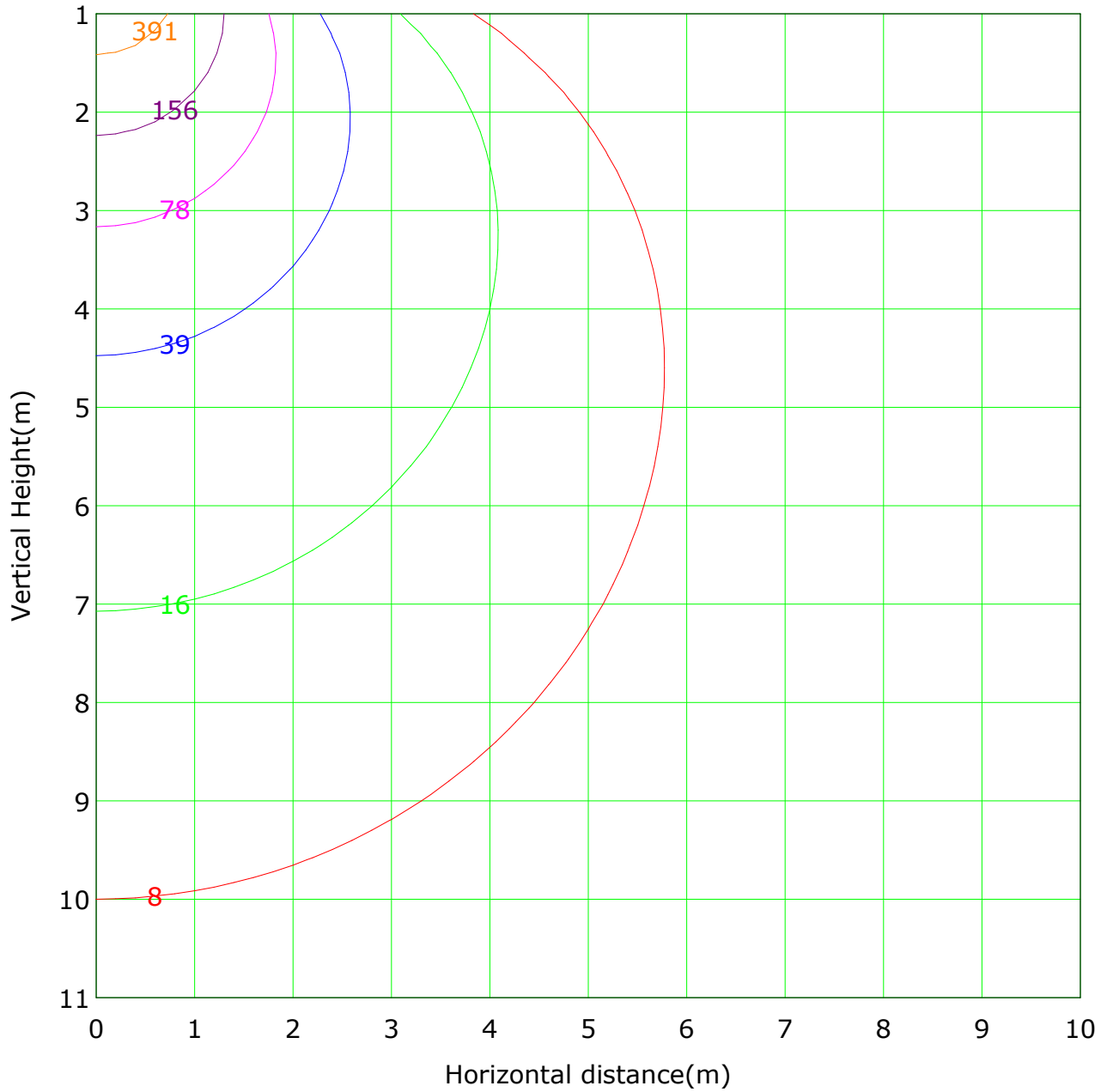
C Plane (°):0.0-360.0: 22.5
 Test Lab: KARMA
 Test Type: TYPE C
 Temperature: 24
 Operator: S.DURDURAN

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

Illuminance at a Distance



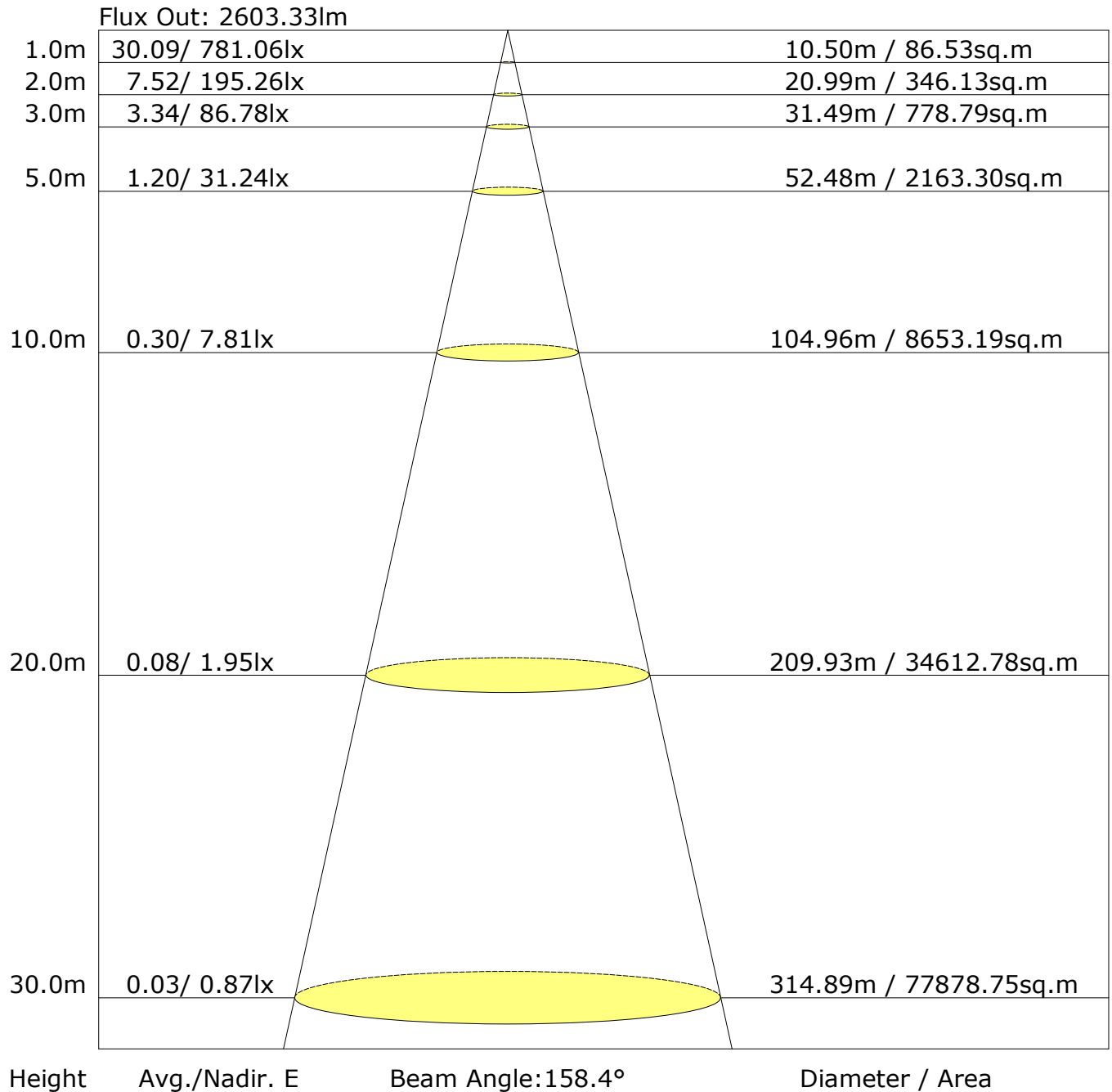
Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 781.1 lx

— (1%): 7.8 lx	— (2%): 15.6 lx
— (5%): 39.1 lx	— (10%): 78.1 lx
— (20%): 156.2 lx	— (50%): 390.5 lx
— (100%): 781.1 lx	

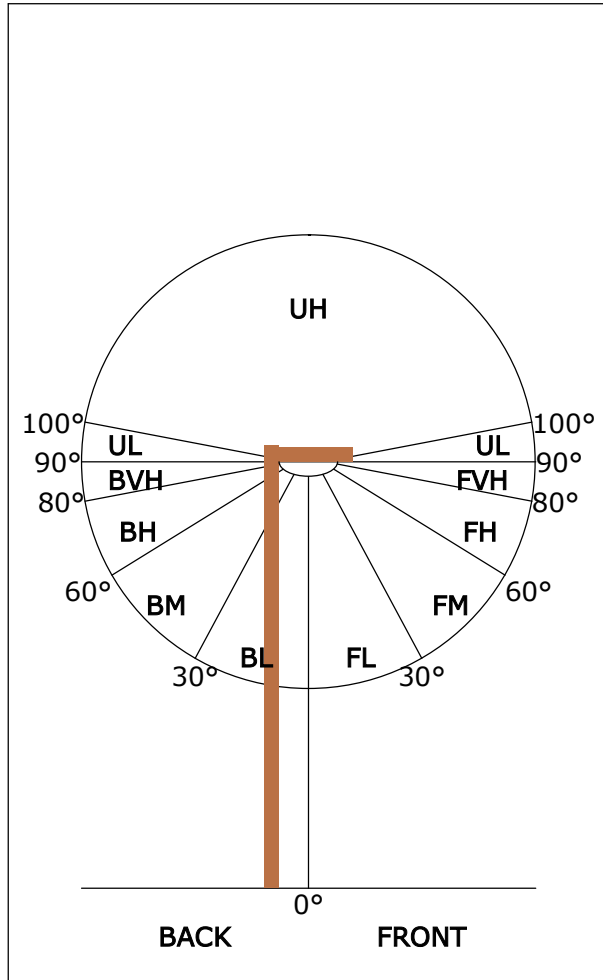
The Average Illuminance Effective Figure



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	15.4	16.8	15.7	17.1	17.4	17.2	18.7	17.6	19.0	19.2
3H	16.2	17.6	16.6	17.9	18.2	19.4	20.8	19.8	21.1	21.4
4H	16.5	17.7	16.8	18.0	18.4	20.6	21.9	21.0	22.2	22.5
6H	16.6	17.8	17.0	18.1	18.5	21.9	23.1	22.3	23.4	23.8
8H	16.6	17.7	17.0	18.1	18.4	22.6	23.7	23.0	24.1	24.4
12H	16.6	17.7	17.0	18.0	18.4	23.3	24.4	23.7	24.7	25.1
X=4H Y=2H	16.1	17.4	16.5	17.7	18.0	17.6	18.9	18.0	19.2	19.5
3H	17.2	18.3	17.6	18.6	19.0	20.0	21.1	20.4	21.4	21.8
4H	17.5	18.5	18.0	18.9	19.3	21.3	22.3	21.7	22.7	23.1
6H	17.8	18.7	18.2	19.1	19.5	22.8	23.7	23.2	24.1	24.5
8H	17.8	18.7	18.3	19.1	19.5	23.5	24.4	24.0	24.8	25.3
12H	17.8	18.6	18.3	19.0	19.5	24.4	25.1	24.8	25.6	26.0
X=8H Y=4H	18.1	19.0	18.6	19.4	19.9	21.4	22.3	21.9	22.7	23.2
6H	18.6	19.3	19.1	19.7	20.2	23.1	23.8	23.6	24.2	24.7
8H	18.7	19.3	19.2	19.8	20.3	24.0	24.6	24.5	25.1	25.6
12H	18.8	19.3	19.3	19.8	20.4	25.0	25.5	25.5	26.0	26.5
X=12H Y=4H	18.3	19.1	18.8	19.5	20.0	21.4	22.2	21.9	22.6	23.1
6H	18.9	19.5	19.4	20.0	20.5	23.1	23.7	23.6	24.2	24.7
8H	19.1	19.6	19.6	20.1	20.7	24.1	24.6	24.6	25.1	25.6
Variations with the observer position at spacings:										
S=1.0H	+0.4/-0.3					+0.3/-0.3				
S=1.5H	+0.6/-0.8					+0.5/-0.6				
S=2.0H	+1.3/-1.5					+0.8/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2820lm ($8\log(F/F_0) = 3.6$).

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM


ZONE	LUMENS	% LAMP LUMENS
FORWARD LIGHT	1393	49.4
FL (0°-30°)	310	11.0
FM (30°-60°)	692	24.5
FH (60°-80°)	309	11.0
FVH (80°-90°)	82	2.9
BACK LIGHT	1392	49.3
BL (0°-30°)	310	11.0
BM (30°-60°)	690	24.4
BH (60°-80°)	310	11.0
BVH (80°-90°)	82	2.9
UP LIGHT	36	1.3
UL (90°-100°)	16	0.6
UH (100°-180°)	20	0.7
TRAPPED LIGHT	NA	NA

BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U2 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U2 G1

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

Gamma Plane (°):0.0-180.0:1.0

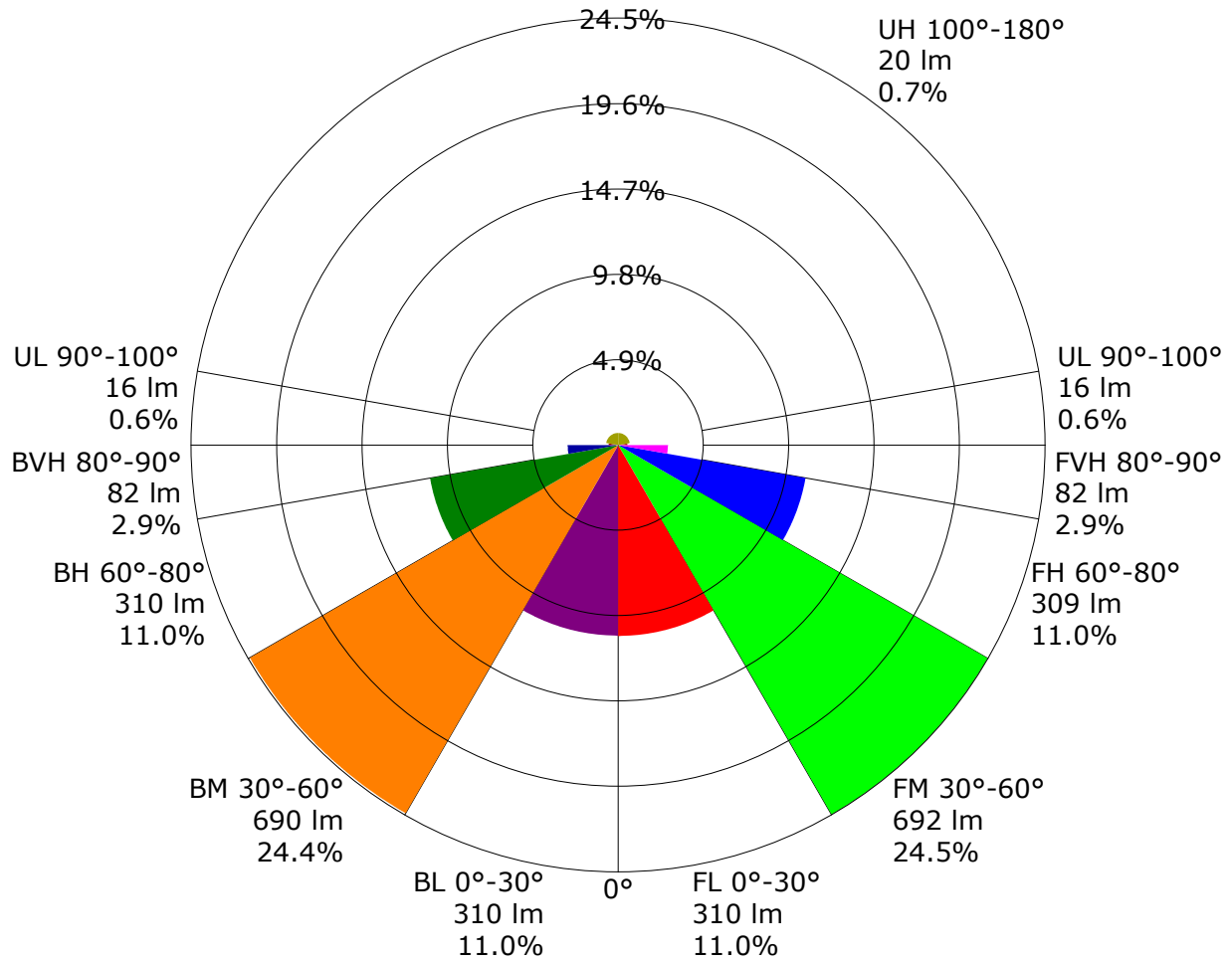
Test Device: LSG-1700B

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 = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.55	0.64	0.71	0.76	0.83	0.88	0.92	0.97	1.00	
	0.30		0.47	0.55	0.63	0.69	0.76	0.82	0.86	0.92	0.96	
	0.20		0.42	0.49	0.57	0.63	0.71	0.77	0.81	0.87	0.92	
0.50	0.50	0.20	0.54	0.61	0.68	0.73	0.80	0.85	0.88	0.92	0.95	
	0.30		0.46	0.54	0.61	0.67	0.74	0.79	0.83	0.88	0.92	
	0.20		0.41	0.49	0.56	0.61	0.69	0.75	0.79	0.85	0.89	
0.30	0.50	0.20	0.52	0.59	0.66	0.70	0.77	0.81	0.84	0.89	0.91	
	0.30		0.46	0.53	0.60	0.65	0.72	0.77	0.80	0.85	0.89	
	0.20		0.41	0.48	0.55	0.60	0.68	0.73	0.77	0.82	0.86	
0.00	0.00	0.00	0.39	0.45	0.52	0.57	0.64	0.69	0.73	0.78	0.81	
<p>Rating:25W 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 = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	1.01	0.87	0.74	0.66	0.54	0.45	0.39	0.31	0.26	
	0.30		0.84	0.74	0.65	0.58	0.49	0.42	0.37	0.30	0.25	
	0.20		0.72	0.65	0.58	0.52	0.44	0.38	0.34	0.28	0.24	
0.50	0.50	0.20	0.97	0.83	0.71	0.63	0.51	0.47	0.38	0.30	0.25	
	0.30		0.82	0.72	0.63	0.57	0.47	0.40	0.35	0.29	0.24	
	0.20		0.71	0.64	0.57	0.51	0.43	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.94	0.80	0.69	0.61	0.49	0.42	0.36	0.29	0.24	
	0.30		0.81	0.71	0.62	0.55	0.46	0.39	0.34	0.28	0.23	
	0.20		0.71	0.63	0.56	0.50	0.42	0.37	0.32	0.26	0.22	
0.00	0.00	0.00	0.60	0.54	0.47	0.42	0.35	0.30	0.26	0.22	0.18	
<p>Rating:25W 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 = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.17	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.18	
	0.20		0.05	0.07	0.08	0.09	0.11	0.12	0.13	0.15	0.16	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
<p>Rating:25W 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	276.1	0.7	0.7	0.03	0.03
1.0-2.0	276.0	2.2	3.0	0.08	0.11
2.0-3.0	275.8	3.7	6.7	0.13	0.24
3.0-4.0	275.5	5.2	11.9	0.18	0.42
4.0-5.0	275.2	6.7	18.6	0.24	0.66
5.0-6.0	274.7	8.1	26.7	0.29	0.95
6.0-7.0	274.2	9.6	36.3	0.34	1.29
7.0-8.0	273.5	11.0	47.4	0.39	1.68
8.0-9.0	272.8	12.5	59.8	0.44	2.12
9.0-10.0	272.0	13.9	73.7	0.49	2.61
10.0-11.0	271.1	15.3	89.0	0.54	3.16
11.0-12.0	270.1	16.7	105.7	0.59	3.75
12.0-13.0	269.1	18.0	123.7	0.64	4.39
13.0-14.0	268.0	19.3	143.0	0.69	5.07
14.0-15.0	266.8	20.7	163.7	0.73	5.80
15.0-16.0	265.6	22.0	185.6	0.78	6.58
16.0-17.0	264.3	23.2	208.9	0.82	7.41
17.0-18.0	263.1	24.5	233.3	0.87	8.27
18.0-19.0	261.9	25.7	259.0	0.91	9.18
19.0-20.0	260.7	26.9	285.9	0.95	10.14
20.0-21.0	259.5	28.1	314.1	1.00	11.13
21.0-22.0	258.3	29.3	343.3	1.04	12.17
22.0-23.0	257.2	30.4	373.8	1.08	13.25
23.0-24.0	256.3	31.6	405.4	1.12	14.37
24.0-25.0	255.3	32.7	438.1	1.16	15.53
25.0-26.0	254.5	33.9	472.0	1.20	16.74
26.0-27.0	253.8	35.0	507.1	1.24	17.98
27.0-28.0	253.8	36.2	543.3	1.29	19.26
28.0-29.0	254.9	37.6	580.9	1.33	20.60
29.0-30.0	258.2	39.3	620.2	1.39	21.99
30.0-31.0	262.2	41.2	661.4	1.46	23.45
31.0-32.0	266.8	43.1	704.5	1.53	24.98
32.0-33.0	270.4	44.9	749.4	1.59	26.57
33.0-34.0	271.1	46.3	795.7	1.64	28.21
34.0-35.0	270.5	47.4	843.1	1.68	29.89
35.0-36.0	268.8	48.3	891.4	1.71	31.60

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

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	266.9	49.1	940.5	1.74	33.35
37.0-38.0	264.5	49.8	990.3	1.77	35.11
38.0-39.0	262.2	50.5	1040.8	1.79	36.90
39.0-40.0	259.2	51.0	1091.8	1.81	38.71
40.0-41.0	253.9	51.0	1142.8	1.81	40.52
41.0-42.0	247.5	50.7	1193.5	1.80	42.32
42.0-43.0	240.4	50.2	1243.7	1.78	44.10
43.0-44.0	233.3	49.7	1293.4	1.76	45.86
44.0-45.0	226.4	49.1	1342.5	1.74	47.60
45.0-46.0	219.1	48.3	1390.8	1.71	49.31
46.0-47.0	212.0	47.6	1438.4	1.69	51.00
47.0-48.0	205.0	46.7	1485.2	1.66	52.66
48.0-49.0	198.2	45.9	1531.1	1.63	54.28
49.0-50.0	191.9	45.1	1576.2	1.60	55.88
50.0-51.0	185.5	44.3	1620.5	1.57	57.45
51.0-52.0	179.7	43.5	1664.0	1.54	59.00
52.0-53.0	174.8	42.9	1706.9	1.52	60.52
53.0-54.0	170.5	42.4	1749.3	1.50	62.02
54.0-55.0	167.2	42.1	1791.4	1.49	63.51
55.0-56.0	165.1	42.1	1833.4	1.49	65.00
56.0-57.0	163.8	42.3	1875.7	1.50	66.50
57.0-58.0	162.1	42.3	1918.0	1.50	68.00
58.0-59.0	159.4	42.0	1960.0	1.49	69.49
59.0-60.0	156.0	41.6	2001.6	1.47	70.97
60.0-61.0	152.3	41.0	2042.6	1.45	72.42
61.0-62.0	147.9	40.2	2082.8	1.43	73.85
62.0-63.0	142.9	39.2	2122.0	1.39	75.24
63.0-64.0	137.4	38.0	2160.0	1.35	76.58
64.0-65.0	131.6	36.8	2196.8	1.30	77.89
65.0-66.0	125.9	35.4	2232.2	1.26	79.14
66.0-67.0	120.2	34.1	2266.3	1.21	80.35
67.0-68.0	115.1	32.9	2299.2	1.17	81.52
68.0-69.0	110.3	31.8	2331.0	1.13	82.64
69.0-70.0	105.9	30.7	2361.7	1.09	83.73
70.0-71.0	102.1	29.8	2391.4	1.06	84.79
71.0-72.0	98.4	28.9	2420.3	1.02	85.81

C Plane (°):0.0-360.0: 22.5
 Test Lab: KARMA
 Test Type: TYPE C
 Temperature: 24
 Operator: S.DURDURAN

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	95.0	28.0	2448.3	0.99	86.80
73.0-74.0	91.7	27.2	2475.5	0.96	87.77
74.0-75.0	88.3	26.3	2501.8	0.93	88.70
75.0-76.0	85.1	25.5	2527.3	0.90	89.61
76.0-77.0	82.0	24.7	2551.9	0.87	90.48
77.0-78.0	78.8	23.8	2575.7	0.84	91.32
78.0-79.0	75.7	22.9	2598.7	0.81	92.14
79.0-80.0	72.6	22.1	2620.7	0.78	92.92
80.0-81.0	69.6	21.2	2642.0	0.75	93.67
81.0-82.0	66.8	20.4	2662.4	0.72	94.40
82.0-83.0	63.9	19.6	2682.0	0.69	95.09
83.0-84.0	60.9	18.7	2700.7	0.66	95.75
84.0-85.0	57.6	17.7	2718.4	0.63	96.38
85.0-86.0	53.8	16.6	2735.0	0.59	96.97
86.0-87.0	49.5	15.3	2750.3	0.54	97.51
87.0-88.0	44.0	13.6	2763.9	0.48	97.99
88.0-89.0	37.6	11.6	2775.5	0.41	98.41
89.0-90.0	30.2	9.3	2784.9	0.33	98.74
90.0-91.0	22.0	6.8	2791.7	0.24	98.98
91.0-92.0	14.0	4.3	2796.0	0.15	99.13
92.0-93.0	7.4	2.3	2798.3	0.08	99.21
93.0-94.0	3.1	1.0	2799.2	0.03	99.25
94.0-95.0	1.2	0.4	2799.6	0.01	99.26
95.0-96.0	0.8	0.2	2799.9	0.01	99.27
96.0-97.0	0.7	0.2	2800.1	0.01	99.28
97.0-98.0	0.7	0.2	2800.3	0.01	99.28
98.0-99.0	0.7	0.2	2800.5	0.01	99.29
99.0-100.0	0.7	0.2	2800.7	0.01	99.30
100.0-101.0	0.7	0.2	2800.9	0.01	99.31
101.0-102.0	0.7	0.2	2801.1	0.01	99.31
102.0-103.0	0.7	0.2	2801.3	0.01	99.32
103.0-104.0	0.7	0.2	2801.6	0.01	99.33
104.0-105.0	0.8	0.2	2801.8	0.01	99.34
105.0-106.0	0.8	0.2	2802.0	0.01	99.35
106.0-107.0	0.8	0.2	2802.3	0.01	99.35
107.0-108.0	0.8	0.3	2802.5	0.01	99.36

C Plane (°):0.0-360.0: 22.5
 Test Lab: KARMA
 Test Type: TYPE C
 Temperature: 24
 Operator: S.DURDURAN

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	0.9	0.3	2802.8	0.01	99.37
109.0-110.0	0.9	0.3	2803.0	0.01	99.38
110.0-111.0	0.9	0.3	2803.3	0.01	99.39
111.0-112.0	1.0	0.3	2803.6	0.01	99.40
112.0-113.0	1.0	0.3	2803.9	0.01	99.41
113.0-114.0	1.0	0.3	2804.2	0.01	99.42
114.0-115.0	1.1	0.3	2804.5	0.01	99.43
115.0-116.0	1.1	0.3	2804.8	0.01	99.44
116.0-117.0	1.1	0.3	2805.1	0.01	99.45
117.0-118.0	1.1	0.3	2805.4	0.01	99.46
118.0-119.0	1.2	0.3	2805.7	0.01	99.48
119.0-120.0	1.2	0.3	2806.0	0.01	99.49
120.0-121.0	1.2	0.3	2806.3	0.01	99.50
121.0-122.0	1.3	0.3	2806.7	0.01	99.51
122.0-123.0	1.3	0.3	2807.0	0.01	99.52
123.0-124.0	1.3	0.3	2807.4	0.01	99.54
124.0-125.0	1.3	0.3	2807.7	0.01	99.55
125.0-126.0	1.4	0.3	2808.1	0.01	99.56
126.0-127.0	1.4	0.3	2808.4	0.01	99.57
127.0-128.0	1.4	0.3	2808.8	0.01	99.58
128.0-129.0	1.4	0.3	2809.1	0.01	99.60
129.0-130.0	1.5	0.3	2809.4	0.01	99.61
130.0-131.0	1.5	0.3	2809.8	0.01	99.62
131.0-132.0	1.5	0.3	2810.1	0.01	99.63
132.0-133.0	1.5	0.3	2810.5	0.01	99.65
133.0-134.0	1.5	0.3	2810.8	0.01	99.66
134.0-135.0	1.6	0.3	2811.2	0.01	99.67
135.0-136.0	1.6	0.3	2811.5	0.01	99.68
136.0-137.0	1.6	0.3	2811.9	0.01	99.70
137.0-138.0	1.6	0.3	2812.2	0.01	99.71
138.0-139.0	1.6	0.3	2812.5	0.01	99.72
139.0-140.0	1.6	0.3	2812.9	0.01	99.73
140.0-141.0	1.6	0.3	2813.2	0.01	99.74
141.0-142.0	1.7	0.3	2813.5	0.01	99.75
142.0-143.0	1.7	0.3	2813.8	0.01	99.76
143.0-144.0	1.7	0.3	2814.1	0.01	99.78

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:



KARMA Lighting

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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	1.7	0.3	2814.4	0.01	99.79
145.0-146.0	1.7	0.3	2814.7	0.01	99.80
146.0-147.0	1.7	0.3	2815.0	0.01	99.81
147.0-148.0	1.8	0.3	2815.3	0.01	99.82
148.0-149.0	1.8	0.3	2815.6	0.01	99.83
149.0-150.0	1.8	0.3	2815.9	0.01	99.84
150.0-151.0	1.8	0.3	2816.2	0.01	99.85
151.0-152.0	1.8	0.3	2816.4	0.01	99.86
152.0-153.0	1.8	0.3	2816.7	0.01	99.87
153.0-154.0	1.9	0.3	2817.0	0.01	99.88
154.0-155.0	1.9	0.2	2817.2	0.01	99.88
155.0-156.0	1.9	0.2	2817.4	0.01	99.89
156.0-157.0	1.9	0.2	2817.7	0.01	99.90
157.0-158.0	1.9	0.2	2817.9	0.01	99.91
158.0-159.0	1.9	0.2	2818.1	0.01	99.92
159.0-160.0	1.9	0.2	2818.3	0.01	99.92
160.0-161.0	1.9	0.2	2818.5	0.01	99.93
161.0-162.0	2.0	0.2	2818.7	0.01	99.94
162.0-163.0	2.0	0.2	2818.9	0.01	99.94
163.0-164.0	2.0	0.2	2819.1	0.01	99.95
164.0-165.0	2.0	0.2	2819.2	0.01	99.96
165.0-166.0	2.0	0.2	2819.4	0.01	99.96
166.0-167.0	2.0	0.1	2819.5	0.01	99.97
167.0-168.0	2.0	0.1	2819.7	0.00	99.97
168.0-169.0	2.0	0.1	2819.8	0.00	99.98
169.0-170.0	2.0	0.1	2819.9	0.00	99.98
170.0-171.0	2.0	0.1	2820.0	0.00	99.98
171.0-172.0	2.0	0.1	2820.1	0.00	99.99
172.0-173.0	2.0	0.1	2820.2	0.00	99.99
173.0-174.0	2.0	0.1	2820.3	0.00	99.99
174.0-175.0	2.0	0.1	2820.3	0.00	100.00
175.0-176.0	2.0	0.0	2820.4	0.00	100.00
176.0-177.0	2.0	0.0	2820.4	0.00	100.00
177.0-178.0	2.0	0.0	2820.4	0.00	100.00
178.0-179.0	2.0	0.0	2820.5	0.00	100.00
179.0-180.0	2.0	0.0	2820.5	0.00	100.00

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

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	276.9	276.7	276.3	276.0	276.3	275.2	275.6	275.9	276.9	276.7
G1.0	276.8	276.7	276.3	276.0	276.3	275.3	275.6	276.0	276.8	276.6
G2.0	276.7	276.4	276.2	275.9	276.4	275.2	275.6	275.8	276.7	276.4
G3.0	276.3	276.2	276.1	275.9	276.3	275.1	275.3	275.6	276.4	276.1
G4.0	275.9	276.0	275.9	275.7	276.1	275.0	275.1	275.3	276.0	275.7
G5.0	275.4	275.5	275.5	275.4	275.7	274.7	274.8	275.0	275.5	275.2
G6.0	274.8	275.0	275.0	274.9	275.4	274.3	274.3	274.3	274.9	274.6
G7.0	274.1	274.4	274.5	274.6	275.0	273.9	273.7	273.7	274.2	273.9
G8.0	273.2	273.6	273.9	274.1	274.5	273.3	273.1	273.0	273.3	273.1
G9.0	272.2	272.6	273.2	273.5	274.0	272.7	272.3	272.2	272.4	272.2
G10.0	271.2	271.7	272.4	272.9	273.5	272.2	271.5	271.2	271.5	271.3
G11.0	270.0	270.6	271.5	272.4	272.9	271.5	270.6	270.1	270.3	270.0
G12.0	268.8	269.4	270.5	271.6	272.1	270.7	269.7	269.0	269.1	268.8
G13.0	267.4	268.2	269.6	270.9	271.4	270.0	268.8	267.7	267.6	267.5
G14.0	265.9	266.7	268.4	269.9	270.5	269.0	267.5	266.4	266.3	266.1
G15.0	264.3	265.3	267.3	269.0	269.8	268.1	266.5	265.0	264.7	264.7
G16.0	262.6	263.8	266.1	268.3	269.1	267.1	265.1	263.5	263.0	262.9
G17.0	260.8	262.1	264.7	267.3	268.7	266.2	263.8	261.7	261.3	261.3
G18.0	259.0	260.4	263.3	266.8	269.1	265.5	262.2	260.0	259.4	259.6
G19.0	257.0	258.5	261.9	266.6	269.3	265.4	260.6	258.1	257.4	257.6
G20.0	254.9	256.6	260.4	266.7	269.1	265.2	259.0	256.3	255.5	255.7
G21.0	252.9	254.7	259.1	266.7	269.3	264.7	257.6	254.3	253.2	253.6
G22.0	250.4	252.3	257.5	266.5	270.1	264.3	255.8	252.1	251.0	251.4
G23.0	248.2	250.4	256.2	266.6	271.2	264.4	254.6	250.1	248.8	249.3
G24.0	245.8	248.1	255.1	267.2	272.7	264.9	253.6	248.0	246.3	246.8
G25.0	243.2	245.6	254.0	268.1	274.7	265.9	252.2	245.4	243.8	244.4
G26.0	240.6	243.3	253.1	269.2	277.0	266.9	250.7	243.2	241.3	242.1
G27.0	237.8	240.7	252.3	270.8	280.2	268.6	249.1	240.6	238.4	239.5
G28.0	235.1	238.1	251.2	272.7	284.1	270.6	247.9	238.0	235.7	236.9
G29.0	232.3	235.6	250.2	275.0	292.8	273.2	246.9	235.3	232.8	234.0
G30.0	229.3	232.8	249.5	278.8	330.0	277.2	246.2	232.5	230.0	231.4
G31.0	226.4	230.2	249.1	285.5	337.2	288.9	245.7	229.8	227.2	228.5
G32.0	223.4	227.4	248.8	318.7	343.3	319.5	245.5	226.9	223.9	225.4
G33.0	220.0	224.5	248.6	331.5	346.4	325.4	245.4	223.8	220.7	222.7
G34.0	217.0	221.6	248.8	337.1	349.8	329.8	245.6	220.9	217.7	219.6
G35.0	213.5	218.5	249.2	339.9	349.4	332.2	246.2	217.7	214.2	216.5
G36.0	210.3	215.6	250.0	341.7	340.5	334.2	247.4	214.7	211.0	213.6

C Plane (°):0.0-360.0: 22.5
 Test Lab: KARMA
 Test Type: TYPE C
 Temperature: 24
 Operator: S.DURDURAN

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	207.0	212.8	251.6	341.3	328.5	337.6	249.4	211.9	207.4	210.3
G38.0	203.2	209.7	255.8	331.6	314.1	329.2	258.0	208.9	204.1	207.5
G39.0	200.0	206.7	276.0	320.1	299.6	317.8	283.0	205.9	200.6	204.3
G40.0	196.0	203.8	296.0	305.4	281.1	304.3	286.3	202.7	196.7	200.9
G41.0	192.4	201.1	301.2	290.6	264.0	289.8	287.0	199.7	193.2	197.7
G42.0	188.9	198.6	302.6	275.4	250.5	273.6	288.9	196.5	189.5	194.8
G43.0	184.9	195.6	301.9	256.5	237.6	255.4	288.9	193.2	185.5	191.8
G44.0	181.2	192.7	300.3	241.8	226.6	242.0	295.0	190.3	181.9	188.9
G45.0	177.4	190.0	294.1	229.2	217.7	230.6	290.3	187.3	177.8	185.5
G46.0	173.2	186.8	281.8	217.2	209.8	218.4	279.4	184.4	174.0	182.8
G47.0	169.3	184.3	268.9	207.7	204.9	208.9	268.3	181.9	170.1	180.0
G48.0	165.2	181.5	254.2	200.1	200.0	200.1	254.1	179.1	165.9	177.2
G49.0	161.1	179.1	240.0	194.6	196.5	194.6	240.3	176.7	162.0	174.6
G50.0	157.1	176.8	224.8	190.2	193.5	189.8	224.4	174.6	157.9	172.1
G51.0	152.7	174.4	207.8	186.0	190.5	185.2	209.0	172.1	153.7	169.4
G52.0	148.7	172.3	194.1	182.9	187.7	182.0	197.1	170.3	149.4	167.1
G53.0	144.5	170.4	183.1	179.9	184.9	179.0	186.4	168.7	145.0	165.3
G54.0	139.9	168.9	172.8	176.7	181.9	175.8	174.8	167.5	141.0	168.3
G55.0	135.8	168.3	164.5	173.7	178.9	172.9	165.8	169.0	136.7	172.9
G56.0	131.3	173.2	158.2	170.5	175.8	169.7	158.8	182.6	132.1	179.4
G57.0	127.0	187.9	153.6	167.6	172.9	166.8	153.2	182.4	127.8	187.1
G58.0	122.5	194.7	149.5	164.4	169.9	163.6	148.5	180.2	123.3	190.0
G59.0	118.0	193.3	145.5	161.0	166.6	160.2	144.5	177.7	118.9	190.3
G60.0	113.6	189.5	142.1	158.0	163.7	157.1	141.1	176.1	114.5	184.7
G61.0	109.2	183.8	138.9	154.9	160.6	154.1	137.9	179.3	109.9	175.9
G62.0	104.5	173.0	135.1	151.5	157.3	150.6	134.3	171.7	105.6	166.8
G63.0	100.0	161.5	132.0	148.4	154.4	147.6	131.1	162.2	101.1	156.2
G64.0	95.3	147.5	128.3	145.1	151.2	144.2	127.3	150.0	96.1	144.2
G65.0	90.7	134.9	125.0	142.1	148.3	141.2	123.9	137.8	91.8	131.8
G66.0	86.4	121.9	121.8	139.1	145.4	138.2	120.6	124.7	87.0	118.6
G67.0	81.5	108.9	118.1	135.9	142.4	135.0	116.9	112.5	82.5	107.6
G68.0	76.9	98.7	114.8	132.8	139.5	132.1	113.7	102.8	78.2	98.0
G69.0	72.7	90.6	111.4	129.9	136.6	129.2	110.4	93.8	73.2	89.6
G70.0	67.7	84.1	108.1	126.9	133.7	126.0	106.9	85.9	68.6	83.6
G71.0	63.2	79.4	104.8	123.9	130.8	123.1	103.8	80.2	64.3	78.8
G72.0	58.3	75.2	101.4	121.0	127.6	120.0	100.4	75.3	59.5	74.5
G73.0	54.0	71.7	98.4	118.1	125.0	117.2	97.3	71.8	55.0	70.8

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

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	49.8	68.0	95.3	115.2	122.3	114.3	94.2	68.2	50.3	67.0
G75.0	44.9	64.3	92.2	112.1	119.2	111.4	91.1	64.5	45.9	63.6
G76.0	40.8	60.9	89.2	109.4	116.4	108.6	88.2	60.9	41.8	60.2
G77.0	36.6	57.5	86.4	106.6	113.6	105.8	85.2	57.5	37.2	56.5
G78.0	32.2	53.9	83.2	103.6	110.8	102.8	82.3	53.9	33.0	53.3
G79.0	28.1	50.8	80.5	100.9	107.9	100.2	79.5	50.8	29.1	50.1
G80.0	24.0	47.4	77.4	98.0	105.0	97.1	76.5	47.4	24.9	46.8
G81.0	20.2	44.5	74.7	95.3	102.4	94.6	73.8	44.5	21.1	43.9
G82.0	16.8	41.6	72.1	92.7	99.7	91.8	71.1	41.7	17.3	40.9
G83.0	13.3	38.8	69.3	89.3	96.0	88.8	68.2	38.8	14.1	38.3
G84.0	10.3	36.1	66.5	85.7	91.9	85.2	65.6	36.1	10.9	35.7
G85.0	7.3	33.4	63.1	80.4	86.2	80.5	62.6	33.5	8.0	33.1
G86.0	4.9	31.1	58.8	74.1	79.4	74.5	58.7	31.1	5.5	30.8
G87.0	3.0	28.5	53.3	67.0	72.0	67.3	53.3	28.7	3.5	28.5
G88.0	1.4	24.6	45.4	57.6	62.3	58.5	46.1	25.3	1.7	25.6
G89.0	0.6	18.9	36.8	48.5	52.5	49.1	37.8	20.1	0.8	21.0
G90.0	0.3	11.9	27.6	38.2	42.5	39.4	28.9	13.5	0.2	14.3
G91.0	0.3	4.2	16.6	26.7	31.0	28.0	18.1	5.0	0.3	6.9
G92.0	0.3	1.7	7.3	16.1	19.7	16.8	7.9	1.7	0.3	2.0
G93.0	0.4	1.5	1.3	6.4	9.4	6.9	1.5	1.4	0.3	1.4
G94.0	0.4	1.3	0.9	1.0	3.0	1.4	0.7	1.2	0.3	1.2
G95.0	0.4	1.2	0.8	0.6	0.7	0.5	0.7	1.1	0.4	1.1
G96.0	0.5	1.1	0.8	0.6	0.7	0.6	0.7	0.9	0.4	0.9
G97.0	0.5	0.9	0.7	0.6	0.7	0.6	0.7	0.8	0.4	0.8
G98.0	0.5	0.9	0.7	0.6	0.7	0.6	0.6	0.8	0.5	0.8
G99.0	0.5	0.8	0.7	0.6	0.7	0.6	0.7	0.7	0.5	0.7
G100.0	0.5	0.8	0.7	0.6	0.8	0.6	0.7	0.7	0.5	0.7
G101.0	0.6	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.5	0.7
G102.0	0.6	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.6	0.7
G103.0	0.7	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.6	0.7
G104.0	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.7
G105.0	0.7	0.8	0.8	0.8	0.9	0.7	0.8	0.7	0.6	0.7
G106.0	0.7	0.8	0.9	0.8	0.9	0.8	0.8	0.8	0.7	0.7
G107.0	0.8	0.8	0.9	0.8	0.9	0.8	0.9	0.8	0.7	0.8
G108.0	0.8	0.8	0.9	0.9	1.0	0.9	0.9	0.8	0.7	0.8
G109.0	0.8	0.8	0.9	0.9	1.0	0.9	0.9	0.8	0.7	0.8
G110.0	0.9	0.9	1.0	1.0	1.0	0.9	1.0	0.8	0.8	0.8

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

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	0.9	0.9	1.0	1.0	1.1	1.0	1.0	0.9	0.8	0.8
G112.0	0.9	0.9	1.0	1.0	1.1	1.0	1.0	0.9	0.8	0.9
G113.0	0.9	0.9	1.1	1.0	1.1	1.0	1.0	0.9	0.9	0.9
G114.0	1.0	1.0	1.1	1.1	1.2	1.0	1.1	0.9	0.9	0.9
G115.0	1.0	1.0	1.1	1.1	1.2	1.1	1.1	1.0	0.9	1.0
G116.0	1.0	1.0	1.1	1.1	1.2	1.1	1.1	1.0	1.0	1.0
G117.0	1.1	1.0	1.2	1.2	1.3	1.2	1.1	1.0	1.0	1.0
G118.0	1.1	1.0	1.2	1.2	1.3	1.2	1.2	1.0	1.0	1.0
G119.0	1.2	1.1	1.3	1.2	1.3	1.2	1.2	1.1	1.1	1.1
G120.0	1.1	1.1	1.3	1.3	1.4	1.2	1.3	1.1	1.1	1.1
G121.0	1.2	1.1	1.3	1.3	1.4	1.3	1.3	1.1	1.1	1.1
G122.0	1.2	1.2	1.4	1.3	1.4	1.3	1.3	1.1	1.1	1.2
G123.0	1.3	1.2	1.4	1.4	1.4	1.3	1.3	1.2	1.2	1.1
G124.0	1.3	1.2	1.4	1.4	1.5	1.4	1.3	1.2	1.2	1.2
G125.0	1.3	1.3	1.4	1.4	1.5	1.4	1.4	1.3	1.2	1.2
G126.0	1.3	1.3	1.4	1.4	1.5	1.4	1.4	1.3	1.3	1.2
G127.0	1.4	1.3	1.4	1.5	1.6	1.5	1.4	1.3	1.3	1.3
G128.0	1.4	1.3	1.4	1.5	1.6	1.5	1.4	1.3	1.3	1.3
G129.0	1.4	1.3	1.4	1.5	1.6	1.5	1.4	1.4	1.3	1.3
G130.0	1.4	1.4	1.5	1.5	1.6	1.5	1.4	1.4	1.4	1.4
G131.0	1.5	1.4	1.5	1.6	1.7	1.5	1.4	1.4	1.4	1.4
G132.0	1.5	1.4	1.5	1.6	1.7	1.6	1.5	1.4	1.4	1.4
G133.0	1.5	1.5	1.5	1.6	1.7	1.6	1.5	1.5	1.5	1.4
G134.0	1.6	1.5	1.5	1.6	1.7	1.6	1.5	1.5	1.5	1.5
G135.0	1.6	1.5	1.5	1.6	1.7	1.6	1.5	1.5	1.5	1.5
G136.0	1.6	1.5	1.5	1.6	1.7	1.6	1.5	1.5	1.5	1.5
G137.0	1.6	1.5	1.5	1.6	1.8	1.6	1.5	1.5	1.6	1.5
G138.0	1.6	1.6	1.6	1.6	1.7	1.6	1.5	1.6	1.6	1.5
G139.0	1.6	1.6	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.5
G140.0	1.7	1.6	1.6	1.6	1.8	1.6	1.6	1.6	1.6	1.6
G141.0	1.7	1.6	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.6
G142.0	1.7	1.7	1.7	1.6	1.7	1.6	1.6	1.7	1.7	1.6
G143.0	1.7	1.7	1.7	1.6	1.8	1.6	1.7	1.7	1.7	1.7
G144.0	1.8	1.7	1.7	1.6	1.8	1.6	1.7	1.7	1.7	1.6
G145.0	1.8	1.7	1.7	1.7	1.8	1.6	1.7	1.7	1.7	1.7
G146.0	1.8	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7
G147.0	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.7	1.7	1.7

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

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	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.7	1.7
G149.0	1.8	1.8	1.8	1.7	1.8	1.7	1.8	1.8	1.7	1.8
G150.0	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8
G151.0	1.9	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.8
G152.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
G153.0	1.9	1.8	1.9	1.9	1.9	1.8	1.8	1.9	1.8	1.9
G154.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.8	1.8
G155.0	1.8	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.8	1.8
G156.0	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.8	1.9
G157.0	1.9	1.9	2.0	1.9	1.9	1.8	1.9	1.9	1.8	1.9
G158.0	1.9	1.9	2.0	1.9	1.9	1.8	1.9	1.9	1.8	1.9
G159.0	1.9	1.9	2.0	1.9	1.9	1.8	1.9	1.9	1.9	1.8
G160.0	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9
G161.0	1.9	1.9	2.0	2.0	2.0	1.9	2.0	1.9	1.8	1.9
G162.0	1.9	1.9	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9
G163.0	1.9	1.9	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9
G164.0	1.9	1.9	2.0	2.0	2.1	2.0	2.0	2.0	1.9	1.9
G165.0	2.0	1.9	2.0	2.0	2.1	2.0	2.0	2.0	1.9	1.9
G166.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.9	1.9
G167.0	1.9	2.0	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9
G168.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.9	2.0
G169.0	1.9	2.0	2.0	2.1	2.1	2.0	2.0	2.0	1.9	1.9
G170.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9
G171.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	1.9	2.0
G172.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	1.9	1.9
G173.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0
G174.0	2.0	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.0	2.0
G175.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0
G176.0	2.0	2.0	2.0	2.1	2.2	2.0	2.1	2.0	1.9	2.0
G177.0	2.0	2.0	2.1	2.0	2.2	2.0	2.0	2.0	2.0	2.0
G178.0	2.0	2.0	2.0	2.0	2.2	2.0	2.0	2.0	2.0	2.0
G179.0	2.0	2.0	2.1	2.0	2.2	2.0	2.1	2.0	2.0	1.9
G180.0	2.0	2.0	2.0	2.0	2.2	2.0	2.0	2.0	2.0	2.0

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

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	276.3	276.0	276.3	275.2	275.6	275.9	276.9			
G1.0	276.2	275.8	276.2	275.1	275.4	275.8	276.8			
G2.0	276.0	275.7	276.1	275.0	275.3	275.6	276.7			
G3.0	275.7	275.3	275.8	274.7	274.9	275.3	276.3			
G4.0	275.4	275.0	275.4	274.4	274.6	274.8	275.9			
G5.0	274.8	274.7	275.1	274.1	274.2	274.4	275.4			
G6.0	274.3	274.1	274.5	273.5	273.6	273.7	274.8			
G7.0	273.7	273.5	274.0	272.9	273.0	273.0	274.1			
G8.0	272.9	272.8	273.3	272.2	272.2	272.2	273.2			
G9.0	272.1	272.2	272.7	271.6	271.4	271.2	272.2			
G10.0	271.2	271.5	271.9	270.9	270.5	270.3	271.2			
G11.0	270.2	270.6	271.0	270.0	269.5	269.1	270.0			
G12.0	269.1	269.7	270.3	269.1	268.4	267.9	268.8			
G13.0	268.0	268.7	269.5	268.3	267.2	266.5	267.4			
G14.0	266.7	267.7	268.6	267.4	266.1	265.2	265.9			
G15.0	265.5	266.8	267.7	266.6	264.9	263.6	264.3			
G16.0	263.9	265.6	266.9	265.6	263.3	261.8	262.6			
G17.0	262.5	264.7	266.8	264.8	262.2	260.2	260.8			
G18.0	261.0	264.2	266.2	264.4	260.8	258.4	259.0			
G19.0	259.4	263.3	265.9	263.7	259.3	256.4	257.0			
G20.0	257.7	262.7	266.2	263.2	257.8	254.5	254.9			
G21.0	256.1	262.4	266.6	262.9	256.2	252.4	252.9			
G22.0	254.5	262.4	266.9	263.2	254.9	250.2	250.4			
G23.0	253.2	262.2	267.4	263.4	253.7	248.1	248.2			
G24.0	251.3	262.3	268.5	263.5	252.5	245.6	245.8			
G25.0	249.8	262.8	269.6	263.8	251.2	243.4	243.2			
G26.0	248.4	263.4	270.9	264.3	249.8	241.0	240.6			
G27.0	247.3	264.2	276.3	265.0	248.6	238.4	237.8			
G28.0	246.0	265.1	292.6	266.9	247.7	236.0	235.1			
G29.0	244.7	270.5	314.1	274.8	247.1	233.0	232.3			
G30.0	243.8	286.0	333.9	290.4	246.1	230.5	229.3			
G31.0	243.0	303.5	344.9	308.2	245.1	227.7	226.4			
G32.0	242.3	325.0	350.7	326.0	244.2	224.7	223.4			
G33.0	241.8	335.3	350.8	335.6	243.5	222.0	220.0			
G34.0	241.3	340.8	345.6	339.2	243.1	219.3	217.0			
G35.0	240.9	341.4	337.4	339.2	244.9	216.2	213.5			
G36.0	243.9	336.4	327.6	334.2	250.9	213.3	210.3			

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

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	255.6	328.1	313.8	326.2	263.8	210.3	207.0			
G38.0	267.8	318.1	299.5	316.3	276.3	207.4	203.2			
G39.0	282.4	306.5	282.9	304.3	288.4	204.8	200.0			
G40.0	295.2	290.7	264.9	288.8	297.6	201.6	196.0			
G41.0	299.4	275.7	249.5	273.1	299.6	198.5	192.4			
G42.0	302.4	259.5	236.7	256.7	298.8	195.7	188.9			
G43.0	296.9	243.2	225.0	240.7	294.2	192.6	184.9			
G44.0	290.0	229.1	216.3	227.8	287.2	189.8	181.2			
G45.0	279.9	217.2	208.3	215.7	277.3	186.9	177.4			
G46.0	269.7	208.4	203.3	206.9	267.0	184.2	173.2			
G47.0	257.6	200.4	199.0	199.6	255.2	181.6	169.3			
G48.0	243.3	194.1	195.5	193.1	239.8	178.5	165.2			
G49.0	228.6	189.4	192.5	188.9	225.0	175.7	161.1			
G50.0	214.6	185.6	189.5	185.2	211.0	173.2	157.1			
G51.0	199.2	182.1	186.4	181.5	196.2	170.4	152.7			
G52.0	187.1	179.0	183.5	178.5	184.9	169.6	148.7			
G53.0	175.9	175.7	180.5	175.1	174.1	170.1	144.5			
G54.0	167.9	172.7	177.7	172.1	166.4	174.3	139.9			
G55.0	160.7	169.7	174.8	169.3	159.2	178.9	135.8			
G56.0	154.5	166.5	172.0	166.0	153.8	185.8	131.3			
G57.0	150.3	163.5	169.3	163.0	149.4	190.2	127.0			
G58.0	146.1	160.6	165.9	160.0	145.4	190.9	122.5			
G59.0	142.5	157.4	162.8	157.0	142.0	187.1	118.0			
G60.0	139.0	154.4	159.8	153.9	138.7	181.4	113.6			
G61.0	135.4	151.0	156.7	150.6	135.0	172.9	109.2			
G62.0	132.1	148.1	153.8	147.6	131.8	163.4	104.5			
G63.0	128.9	144.9	151.0	144.5	128.5	153.3	100.0			
G64.0	125.3	141.8	147.9	141.3	125.0	140.2	95.3			
G65.0	122.1	138.8	145.0	138.4	121.9	128.3	90.7			
G66.0	118.4	135.6	142.1	135.2	118.2	114.8	86.4			
G67.0	115.1	132.7	139.2	132.4	115.0	104.7	81.5			
G68.0	112.0	129.9	136.4	129.4	111.7	95.5	76.9			
G69.0	108.4	126.7	133.4	126.3	108.2	87.8	72.7			
G70.0	105.4	123.8	130.7	123.6	105.2	82.1	67.7			
G71.0	102.3	121.0	127.9	120.7	102.0	77.8	63.2			
G72.0	98.8	118.1	125.1	117.8	98.8	73.5	58.3			
G73.0	95.8	115.3	122.3	115.0	95.9	70.0	54.0			

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

Gamma Plane (°):0.0-180.0:1.0

Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:

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

Tel: +90(212)5654060

Fax: +0(212)5654061

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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	92.7	112.3	119.4	112.1	92.5	66.1	49.8			
G75.0	89.7	109.5	116.7	109.3	89.6	62.7	44.9			
G76.0	87.0	106.9	114.1	106.7	87.0	59.4	40.8			
G77.0	84.0	104.0	111.2	103.7	83.8	56.0	36.6			
G78.0	81.2	101.3	108.5	101.1	81.0	52.7	32.2			
G79.0	78.4	98.6	105.9	98.5	78.4	49.5	28.1			
G80.0	75.6	95.9	103.1	95.7	75.4	46.4	24.0			
G81.0	72.9	93.4	100.6	93.2	72.9	43.5	20.2			
G82.0	70.1	90.5	97.7	90.5	70.2	40.5	16.8			
G83.0	67.6	87.9	95.0	87.7	67.6	37.9	13.3			
G84.0	65.1	84.9	91.4	84.7	65.2	35.4	10.3			
G85.0	62.2	80.8	86.7	80.3	62.1	32.8	7.3			
G86.0	59.0	75.7	81.0	75.2	58.5	30.5	4.9			
G87.0	54.5	69.3	74.3	68.7	53.6	28.2	3.0			
G88.0	48.0	61.3	65.7	60.2	46.8	24.7	1.4			
G89.0	40.3	52.9	56.7	51.8	38.9	19.5	0.6			
G90.0	31.1	42.7	46.2	41.5	29.5	12.3	0.3			
G91.0	21.6	32.6	36.1	31.7	20.1	5.1	0.3			
G92.0	11.3	21.7	25.1	20.8	10.1	1.6	0.3			
G93.0	3.6	10.3	13.7	10.1	2.7	1.4	0.4			
G94.0	0.8	3.8	5.7	3.3	0.9	1.2	0.4			
G95.0	0.7	0.7	1.5	0.6	0.8	1.1	0.4			
G96.0	0.7	0.6	0.7	0.6	0.8	0.9	0.5			
G97.0	0.7	0.6	0.7	0.6	0.7	0.9	0.5			
G98.0	0.7	0.6	0.7	0.6	0.7	0.8	0.5			
G99.0	0.7	0.6	0.7	0.6	0.7	0.8	0.5			
G100.0	0.7	0.6	0.7	0.6	0.7	0.7	0.5			
G101.0	0.7	0.7	0.8	0.6	0.7	0.7	0.6			
G102.0	0.7	0.7	0.8	0.7	0.7	0.7	0.6			
G103.0	0.8	0.7	0.8	0.7	0.8	0.7	0.7			
G104.0	0.8	0.8	0.9	0.7	0.8	0.7	0.7			
G105.0	0.8	0.8	0.9	0.8	0.8	0.8	0.7			
G106.0	0.8	0.8	0.9	0.8	0.9	0.8	0.7			
G107.0	0.9	0.8	1.0	0.9	0.9	0.8	0.8			
G108.0	0.9	0.8	1.0	0.9	0.9	0.8	0.8			
G109.0	0.9	0.9	1.0	0.9	0.9	0.9	0.8			
G110.0	1.0	0.9	1.0	0.9	1.0	0.9	0.9			

C Plane (°):0.0-360.0: 22.5

Test Lab: KARMA

Test Type: TYPE C

Temperature: 24

Operator: S.DURDURAN

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	1.0	1.0	1.1	1.0	1.0	0.9	0.9			
G112.0	1.0	1.0	1.1	1.0	1.0	1.0	0.9			
G113.0	1.1	1.0	1.1	1.1	1.1	1.0	0.9			
G114.0	1.1	1.1	1.2	1.1	1.1	1.0	1.0			
G115.0	1.1	1.1	1.2	1.1	1.1	1.0	1.0			
G116.0	1.2	1.1	1.3	1.1	1.2	1.0	1.0			
G117.0	1.2	1.2	1.3	1.2	1.2	1.1	1.1			
G118.0	1.2	1.2	1.3	1.2	1.2	1.1	1.1			
G119.0	1.2	1.2	1.3	1.2	1.2	1.1	1.2			
G120.0	1.3	1.2	1.4	1.3	1.3	1.2	1.1			
G121.0	1.3	1.3	1.4	1.3	1.3	1.2	1.2			
G122.0	1.3	1.4	1.5	1.3	1.4	1.2	1.2			
G123.0	1.4	1.3	1.5	1.4	1.4	1.2	1.3			
G124.0	1.4	1.4	1.5	1.4	1.4	1.3	1.3			
G125.0	1.4	1.4	1.5	1.4	1.4	1.3	1.3			
G126.0	1.4	1.4	1.6	1.4	1.4	1.3	1.3			
G127.0	1.5	1.5	1.5	1.5	1.5	1.3	1.4			
G128.0	1.4	1.5	1.6	1.5	1.4	1.4	1.4			
G129.0	1.5	1.5	1.6	1.5	1.5	1.4	1.4			
G130.0	1.4	1.5	1.7	1.5	1.4	1.4	1.4			
G131.0	1.4	1.6	1.7	1.5	1.5	1.4	1.5			
G132.0	1.5	1.6	1.7	1.6	1.5	1.5	1.5			
G133.0	1.5	1.6	1.7	1.6	1.5	1.5	1.5			
G134.0	1.5	1.6	1.7	1.6	1.5	1.5	1.6			
G135.0	1.5	1.6	1.7	1.6	1.5	1.5	1.6			
G136.0	1.5	1.6	1.8	1.6	1.5	1.6	1.6			
G137.0	1.5	1.6	1.7	1.6	1.6	1.6	1.6			
G138.0	1.6	1.6	1.7	1.6	1.6	1.6	1.6			
G139.0	1.6	1.6	1.8	1.6	1.6	1.6	1.6			
G140.0	1.6	1.6	1.8	1.6	1.6	1.6	1.7			
G141.0	1.6	1.6	1.8	1.6	1.6	1.7	1.7			
G142.0	1.7	1.6	1.8	1.7	1.7	1.7	1.7			
G143.0	1.7	1.6	1.8	1.6	1.7	1.7	1.7			
G144.0	1.7	1.7	1.8	1.7	1.7	1.7	1.8			
G145.0	1.7	1.7	1.8	1.7	1.7	1.8	1.8			
G146.0	1.8	1.7	1.8	1.7	1.8	1.8	1.8			
G147.0	1.8	1.7	1.8	1.7	1.8	1.8	1.8			

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Test Device: LSG-1700B

Distance: 8.942 m

Humidity:

Inspector:



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	1.8	1.7	1.8	1.8	1.8	1.8	1.8			
G149.0	1.8	1.7	1.8	1.8	1.8	1.8	1.8			
G150.0	1.8	1.7	1.9	1.8	1.8	1.8	1.8			
G151.0	1.8	1.8	1.8	1.8	1.9	1.9	1.9			
G152.0	1.8	1.8	1.9	1.8	1.9	1.9	1.8			
G153.0	1.8	1.8	1.9	1.9	1.9	1.9	1.9			
G154.0	1.8	1.8	1.9	1.8	1.9	1.9	1.9			
G155.0	1.9	1.8	1.9	1.8	1.9	1.9	1.8			
G156.0	1.9	1.8	1.9	1.9	1.9	1.9	1.9			
G157.0	1.9	1.8	2.0	1.9	2.0	1.9	1.9			
G158.0	2.0	1.8	2.0	1.9	2.0	2.0	1.9			
G159.0	1.9	1.9	2.0	1.9	2.0	1.9	1.9			
G160.0	2.0	1.9	2.0	2.0	2.0	2.0	1.9			
G161.0	2.0	1.9	2.0	2.0	2.0	2.0	1.9			
G162.0	2.0	1.9	2.1	2.0	2.0	2.0	1.9			
G163.0	2.0	1.9	2.1	2.0	2.0	2.0	1.9			
G164.0	2.0	2.0	2.1	2.0	2.0	2.0	1.9			
G165.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0			
G166.0	2.0	2.0	2.1	2.0	2.1	2.0	2.0			
G167.0	2.0	2.0	2.1	2.1	2.0	2.0	1.9			
G168.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0			
G169.0	2.0	2.0	2.2	2.1	2.1	2.0	1.9			
G170.0	2.0	2.0	2.1	2.1	2.1	2.0	2.0			
G171.0	2.0	2.0	2.1	2.0	2.1	2.0	2.0			
G172.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0			
G173.0	2.0	2.0	2.2	2.0	2.0	2.0	2.0			
G174.0	2.0	2.0	2.2	2.1	2.0	2.0	2.0			
G175.0	2.0	2.0	2.2	2.0	2.1	2.0	2.0			
G176.0	2.0	2.0	2.2	2.0	2.0	2.0	2.0			
G177.0	2.0	2.0	2.2	2.0	2.0	2.0	2.0			
G178.0	2.0	2.0	2.2	2.0	2.1	2.0	2.0			
G179.0	2.0	2.0	2.2	2.0	2.0	2.0	2.0			
G180.0	2.1	2.0	2.2	2.0	2.1	2.0	2.0			

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