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Nata

Client: NT

LumCAT: 2-3056-LM

Luminaire: 92.70.121.00 LED HOLDER

Report No: 20251110-C006

Ballast type: DC

Test No: 20251110-C006

Voltage(V): 34.220

LampCAT: PHILIPS SLM 1208 L15 1919 G8N

Current(A): 0.573

Lamp flux(lm): 3303.0

Power (W): 19.600

Number of Lamps: 1

PF: 0.000

Length(mm): 69

Width(mm): 69

Phm Type: C

Height(mm): 35

Photometric Results

Lumens(lm): 3257.59, Efficiency(%): 98.63% , Luminous Efficacy(lm/W): 166.20

Central intensity(cd): 15294.710, Maximum intensity(cd): 15344.660

Angle of maximum intensity: C=0.0 γ =1.0

Beam Angle(50%Imax): [C0/180]Total=19.1

[C90/270]Total=19.3

Field angle(10%Imax): [C0/180]Total=42.7

[C90/270]Total=40.8

Maximum s/h(1/2): C0_180=0.29 C90_270=0.36

Maximum s/h(1/4): C0_180=0.30 C90_270=0.35

Up flux rate of lamp(%): 0.00%

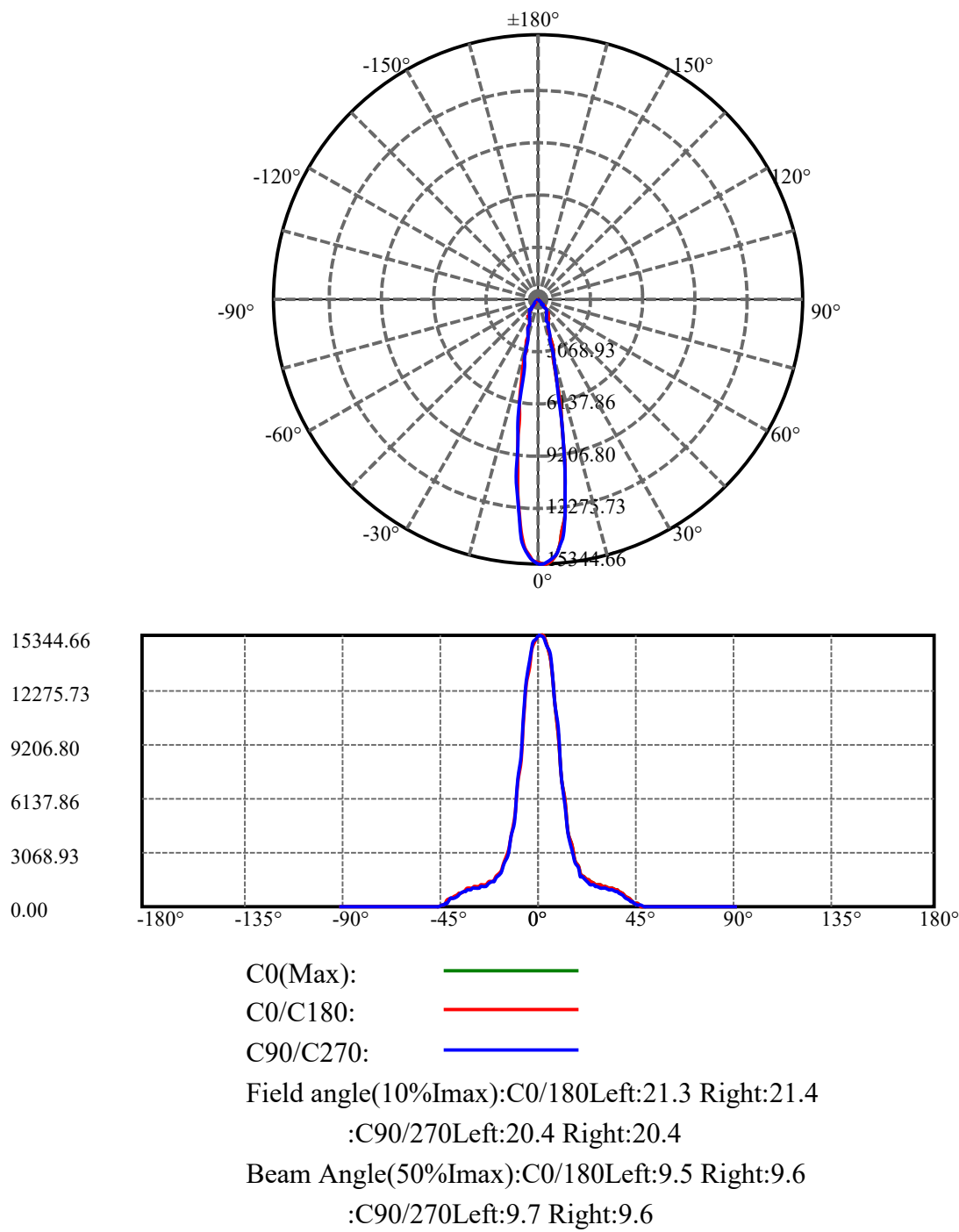
Down flux rate of lamp(%): 98.70%

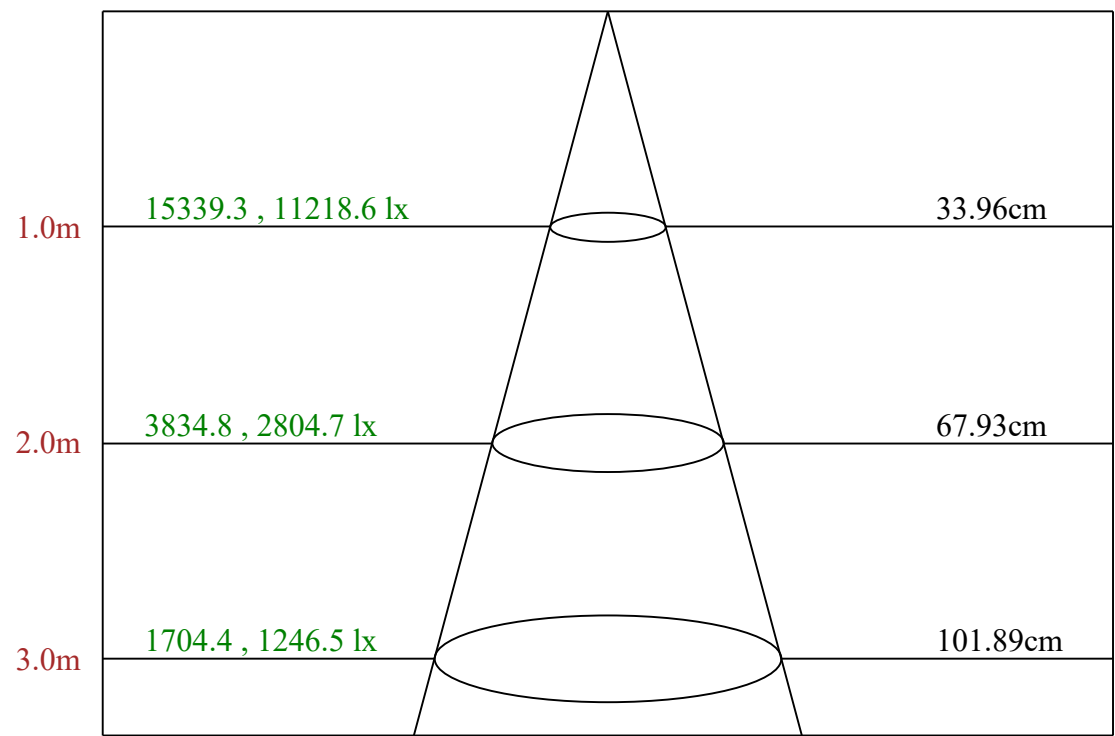
Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

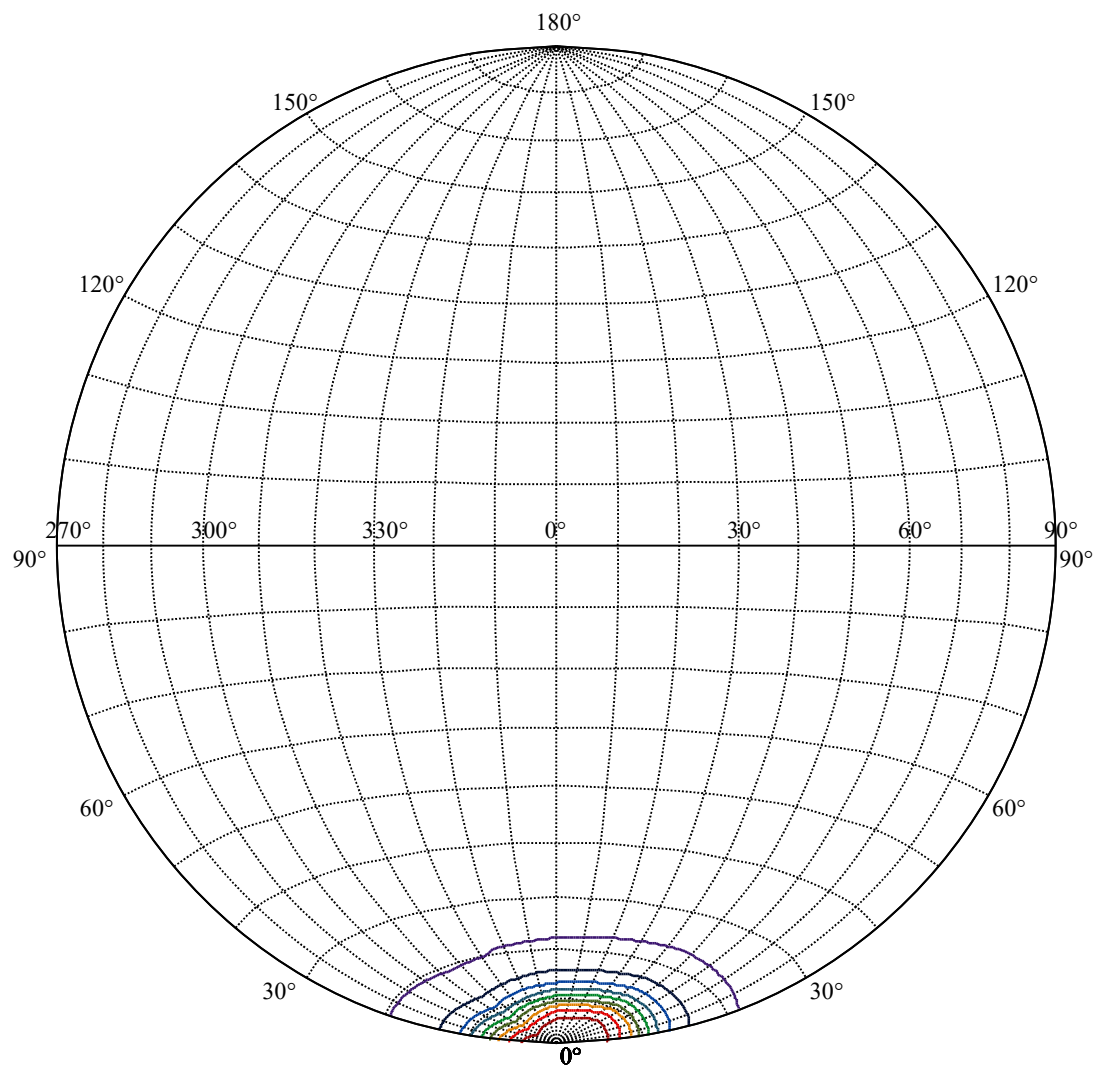
CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.141%





Max , Ave Beam angle of C0 plane 19.28

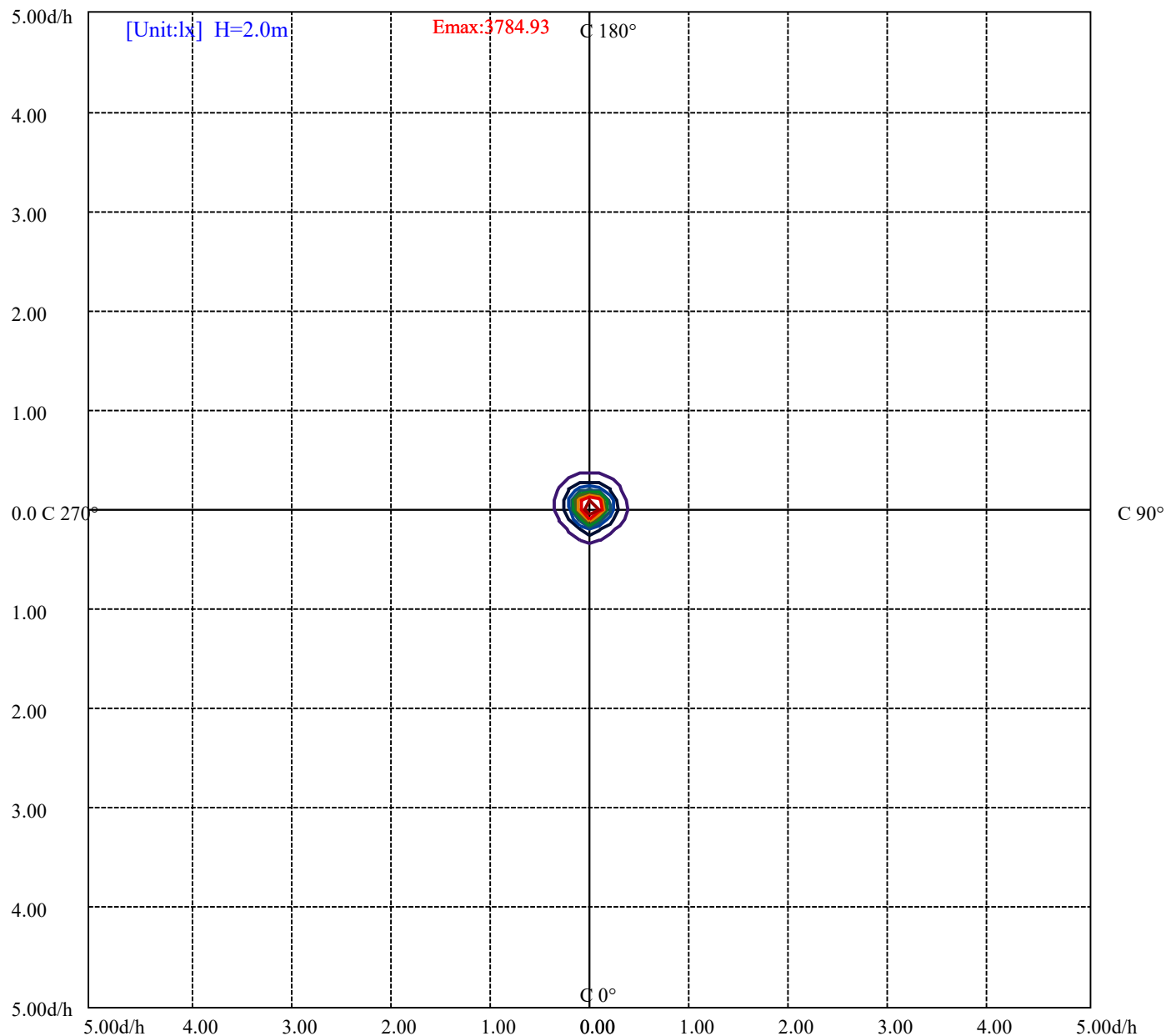


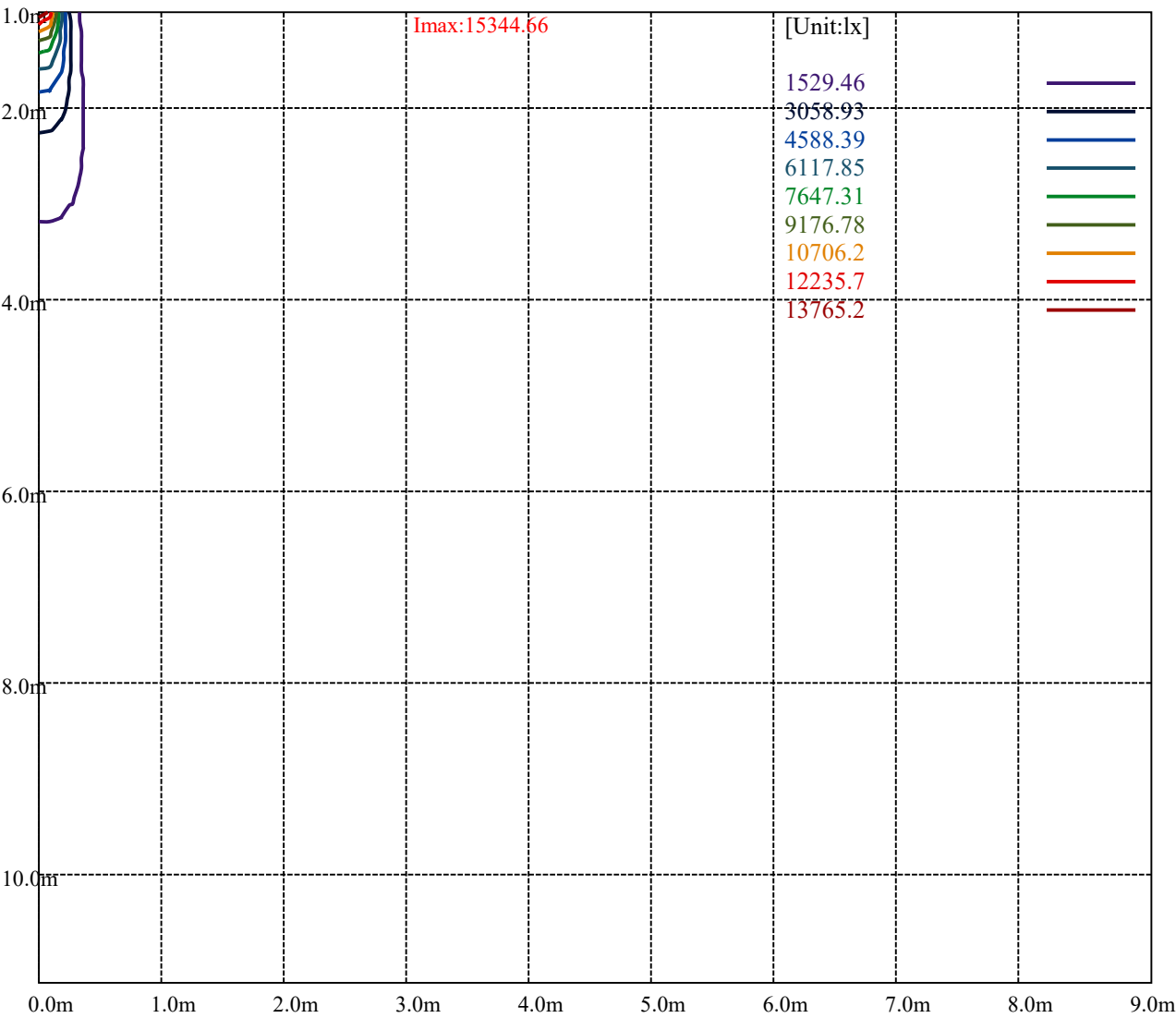
House

[Unit:cd]

Road

Imax:15344.66	
(10%Imax)	1534.63
(20%Imax)	3069.26
(30%Imax)	4603.89
(40%Imax)	6138.52
(50%Imax)	7673.15
(60%Imax)	9207.78
(70%Imax)	10742.4
(80%Imax)	12277
(90%Imax)	13811.7





Luminance Table

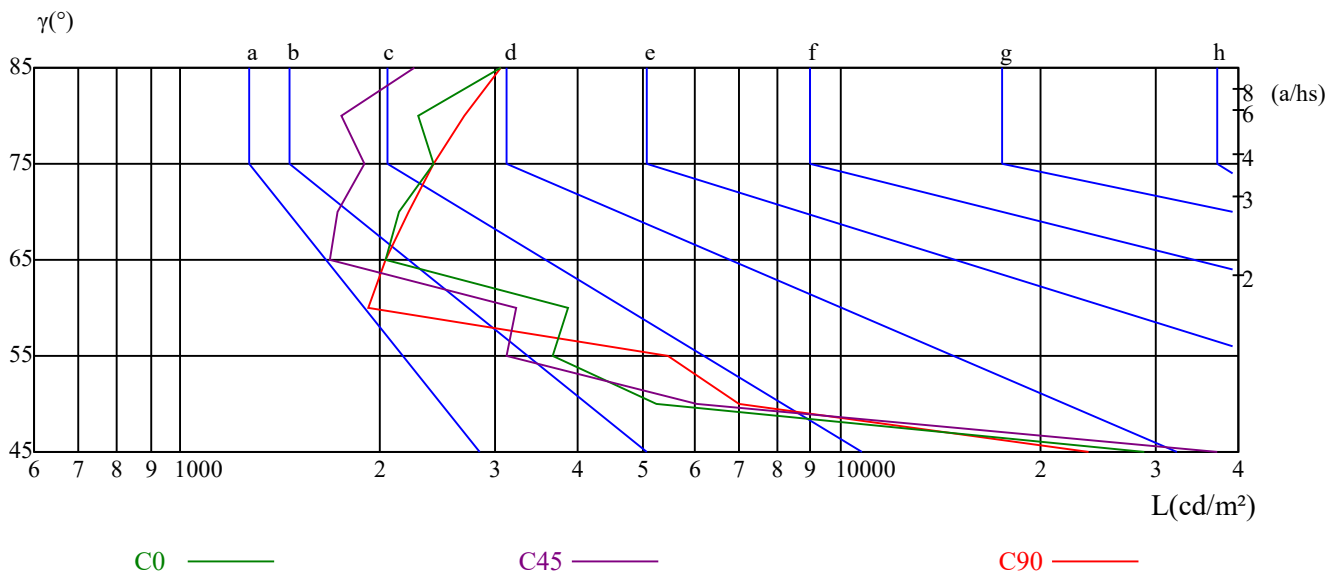
γ	45	50	55	60	65	70	75	80	85
C0	28852	5261	3658	3851	2050	2143	2416	2284	3053
C45	37239	6068	3115	3226	1686	1727	1901	1747	2256
C90	23761	7015	5486	1926	2050	2209	2416	2687	3053

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4280	4280	4280	6989	6989	6989	20754	20754	20754

Glare Table

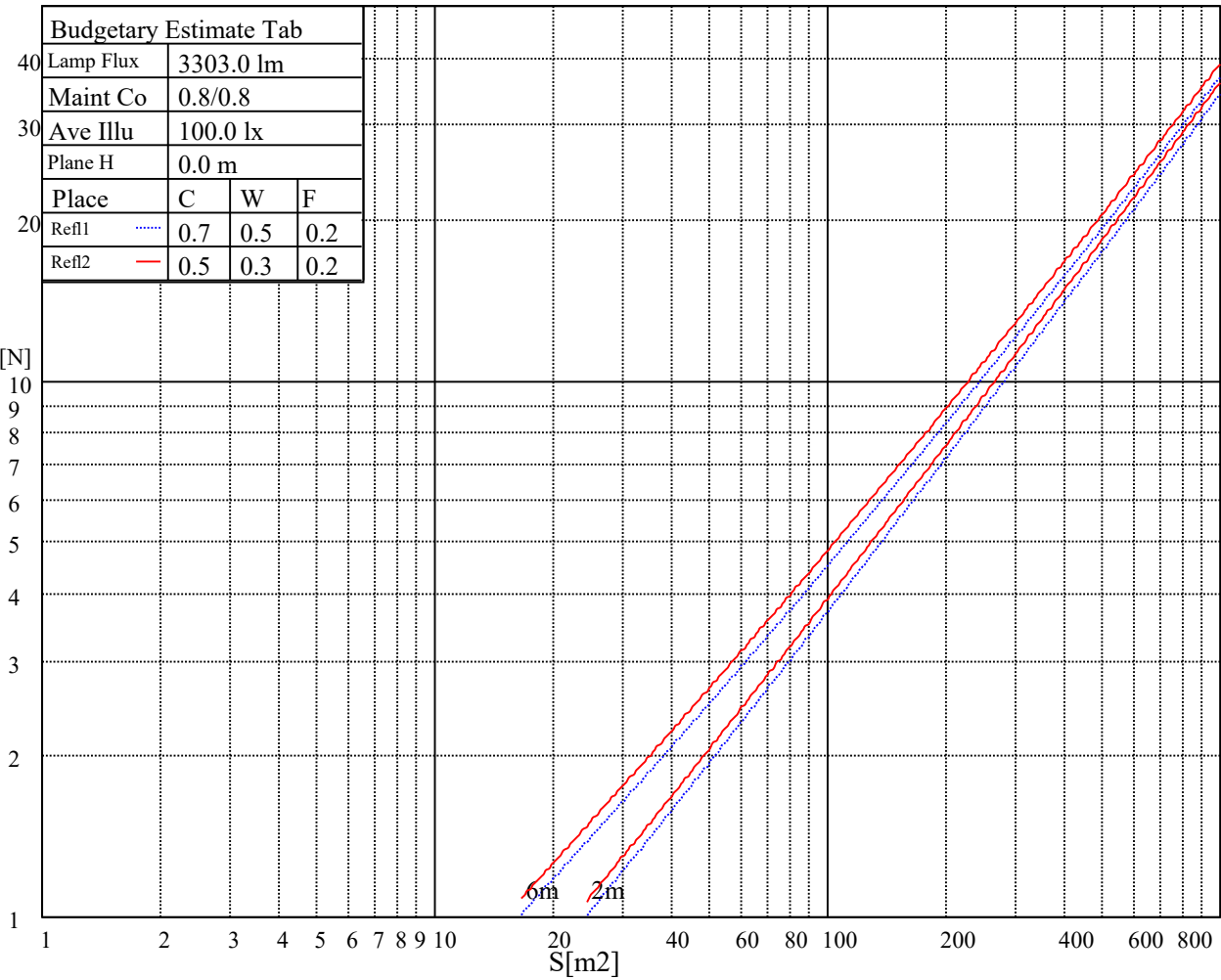
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

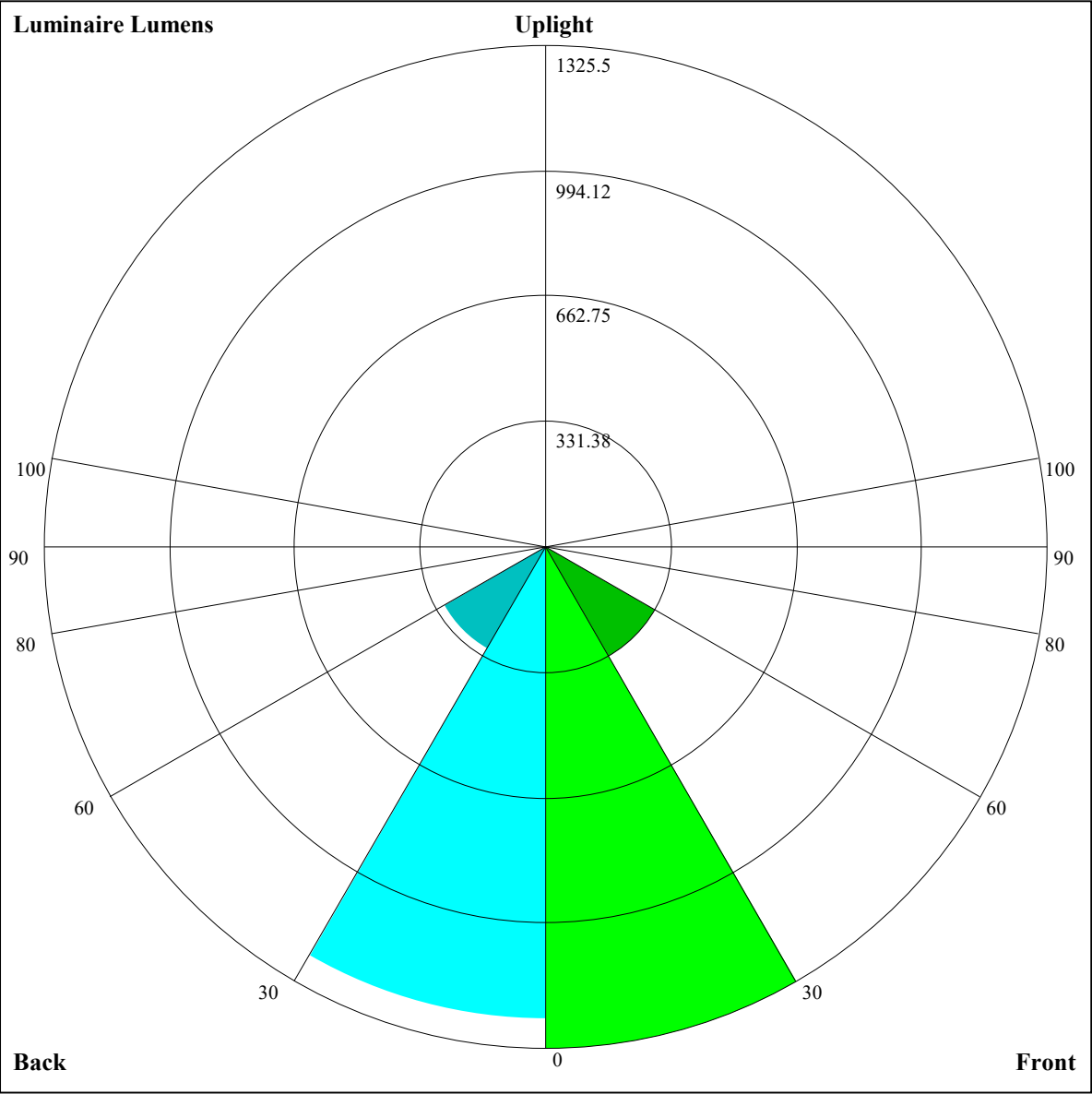


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	20.75	21.70	21.12	22.01	22.33	20.37	21.31	20.73	21.62	21.94
	3H	20.56	21.39	20.94	21.73	22.08	20.17	21.01	20.56	21.35	21.69
	4H	20.46	21.24	20.86	21.59	21.96	20.08	20.85	20.48	21.21	21.58
	6H	20.39	21.09	20.81	21.47	21.87	20.01	20.72	20.43	21.09	21.49
	8H	20.32	21.00	20.75	21.38	21.79	19.95	20.62	20.37	21.01	21.42
	12H	20.27	20.91	20.69	21.30	21.72	19.90	20.53	20.32	20.93	21.35
4H	2H	20.44	21.21	20.84	21.57	21.94	20.05	20.83	20.45	21.18	21.55
	3H	20.21	20.85	20.63	21.25	21.67	19.82	20.47	20.25	20.87	21.28
	4H	20.15	20.70	20.59	21.13	21.58	19.77	20.33	20.21	20.75	21.20
	6H	20.03	20.53	20.51	20.98	21.43	19.66	20.16	20.14	20.61	21.06
	8H	20.00	20.45	20.48	20.91	21.39	19.63	20.09	20.12	20.55	21.02
	12H	19.97	20.39	20.46	20.85	21.37	19.61	20.03	20.10	20.49	21.01
8H	4H	19.95	20.40	20.44	20.86	21.34	19.57	20.03	20.06	20.49	20.96
	6H	19.84	20.21	20.34	20.69	21.20	19.47	19.84	19.98	20.32	20.84
	8H	19.86	20.17	20.39	20.69	21.19	19.50	19.81	20.03	20.33	20.83
	12H	19.85	20.09	20.40	20.61	21.13	19.50	19.74	20.04	20.25	20.78
12H	4H	19.90	20.32	20.39	20.77	21.29	19.52	19.94	20.01	20.39	20.91
	6H	19.83	20.14	20.36	20.66	21.16	19.46	19.77	19.99	20.29	20.79
	8H	19.81	20.05	20.36	20.57	21.09	19.46	19.69	20.00	20.21	20.74
Variation with the observer position at spacings:											
S = 1.0H		4.2/-11.9					4.0/-13.3				
S = 1.5H		6.2/-11.5					6.3/-11.9				
S = 2.0H		8.1/-10.5					8.2/-11.0				
Standard tables:		BK0					BK0				
Uncorrected UGR		1.3					1.7				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.99
1	1.10	1.08	1.06	1.08	1.06	1.05	1.04	1.03	1.01	1.01	1.00	0.98	0.97	0.96	0.96	0.94
2	1.04	1.01	0.98	1.03	0.99	0.97	0.99	0.97	0.95	0.97	0.95	0.93	0.94	0.92	0.91	0.89
3	0.99	0.95	0.91	0.97	0.94	0.91	0.95	0.92	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.85
4	0.94	0.89	0.86	0.93	0.89	0.85	0.91	0.87	0.84	0.89	0.86	0.83	0.87	0.85	0.83	0.81
5	0.90	0.85	0.81	0.89	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.80	0.84	0.81	0.79	0.78
6	0.86	0.81	0.77	0.85	0.80	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.74
7	0.82	0.77	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.71
8	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.69
9	0.76	0.71	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
10	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.64



Luminaire Lumens:

FL=1325.5,FM=334.47,FH=9.11,FVH=3.79

BL=1247.86,BM=309.69,BH=8.95,BVH=3.78

UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	15294.71	15344.66	15314.52	15132.81	14837.43	14229.43	13532.73	12608.68	11444.36
45.0	15136.26	15273.18	15336.05	15340.36	15186.20	14945.93	14529.12	13776.45	12932.49
90.0	15336.91	15343.80	15292.13	15082.86	14797.81	14358.61	13710.14	12610.40	11446.94
135.0	15189.65	15338.63	15338.63	15275.77	15039.80	14703.94	14210.48	13512.06	12307.27
180.0	15294.71	15116.45	14818.48	14368.08	13518.95	12557.01	11357.38	10010.49	8307.93
225.0	15136.26	14836.56	14265.60	13574.07	12622.46	11073.19	9666.02	7935.04	6659.62
270.0	15336.91	15197.40	14981.24	14500.70	13896.15	12812.78	11663.10	10324.82	8589.54
315.0	15189.65	14924.40	14546.35	13810.89	12955.74	11837.06	10143.11	8757.47	7420.05
360.0	15294.71	15344.66	15314.52	15132.81	14837.43	14229.43	13532.73	12608.68	11444.36
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	9755.58	8426.77	7144.47	5989.62	4820.99	4083.82	3507.69	3041.79	2588.81
45.0	11839.64	10236.98	8891.81	7581.95	6110.19	5108.63	4284.48	3492.19	3012.51
90.0	10131.05	8451.75	7131.55	5693.37	4730.57	3988.23	3270.00	2823.91	2458.77
135.0	11113.67	9771.94	8462.08	6895.59	5792.41	4846.83	3921.06	3359.56	2802.38
180.0	7047.15	5913.84	4970.84	4033.01	3459.46	3019.40	2576.75	2287.39	2007.51
225.0	5566.78	4464.46	3783.27	3244.17	2808.41	2390.73	2128.07	1708.50	1708.50
270.0	7243.50	6012.01	4749.52	3977.03	3360.43	2892.80	2446.71	2160.80	1936.89
315.0	6194.58	4945.87	4158.74	3549.03	3056.43	2579.33	2277.92	1893.83	1687.06
360.0	9755.58	8426.77	7144.47	5989.62	4820.99	4083.82	3507.69	3041.79	2588.81
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2306.34	1892.97	1709.71	1709.71	1571.32	1479.60	1406.06	1340.69	1278.17
45.0	2616.36	2317.53	2029.90	1846.46	1700.06	1582.08	1466.68	1400.37	1341.81
90.0	2182.33	1687.06	1687.06	1585.27	1471.42	1361.45	1284.11	1228.48	1169.83
135.0	2466.52	2184.91	1967.89	1759.49	1632.03	1524.38	1445.15	1364.20	1310.81
180.0	1831.82	1694.04	1569.16	1461.52	1388.31	1328.89	1277.22	1226.41	1191.96
225.0	1583.63	1483.13	1404.59	1343.02	1281.70	1241.66	1196.62	1169.83	1145.37
270.0	1755.18	1582.08	1471.85	1382.29	1295.31	1241.91	1185.94	1147.18	1116.18
315.0	1656.40	1543.59	1432.32	1369.02	1296.77	1248.11	1215.22	1182.66	1151.58
360.0	2306.34	1892.97	1709.71	1709.71	1571.32	1479.60	1406.06	1340.69	1278.17
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1232.44	1198.42	1168.20	1136.42	1109.46	1086.99	1070.37	1038.16	990.36
45.0	1283.25	1246.22	1204.88	1177.32	1150.63	1133.40	1101.54	1085.18	1059.34
90.0	1130.91	1093.27	1060.63	1034.80	1014.22	991.74	969.95	940.76	896.23
135.0	1265.17	1224.69	1190.24	1166.99	1141.15	1118.76	1095.51	1067.95	1029.20
180.0	1161.82	1139.43	1106.71	1085.18	1061.93	1027.48	965.47	879.35	805.29
225.0	1121.09	1097.15	1074.76	1055.04	1000.87	942.48	873.76	796.16	693.94
270.0	1087.76	1058.48	1036.95	1014.56	996.48	952.56	900.88	842.32	774.29
315.0	1128.24	1110.24	1087.24	1061.93	1033.77	989.16	925.86	835.00	756.12
360.0	1232.44	1198.42	1168.20	1136.42	1109.46	1086.99	1070.37	1038.16	990.36
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	909.67	835.26	756.12	648.47	563.04	477.87	395.80	293.23	215.73
45.0	1018.87	943.94	874.19	788.93	676.12	586.55	498.71	434.98	434.98
90.0	820.71	751.47	675.94	594.82	488.72	408.55	330.61	238.81	173.61
135.0	971.50	887.11	809.60	722.62	631.33	515.07	452.21	452.21	262.49
180.0	723.48	641.67	538.33	453.07	453.07	347.57	184.12	119.62	67.52
225.0	609.98	524.72	417.24	332.68	250.60	160.44	102.22	54.17	37.38
270.0	670.95	594.30	487.52	447.90	447.90	225.89	163.54	109.97	62.95
315.0	647.78	563.56	478.99	374.36	294.61	219.00	151.40	84.05	53.05
360.0	909.67	835.26	756.12	648.47	563.04	477.87	395.80	293.23	215.73

Intensity data(cd)

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	147.69	90.42	45.56	33.67	28.76	22.65	18.52	16.02	15.50
45.0	216.24	133.14	81.90	51.15	38.67	31.95	26.87	23.17	20.93
90.0	118.93	70.36	50.55	41.94	37.03	32.98	29.80	28.42	27.21
135.0	170.43	110.15	64.76	40.13	35.57	29.37	25.32	22.30	21.36
180.0	34.53	29.02	24.20	18.60	15.16	13.69	13.43	13.35	13.52
225.0	32.81	27.90	22.74	20.15	19.29	18.69	18.34	17.48	16.62
270.0	45.38	39.61	34.79	30.06	27.13	26.01	25.58	24.37	22.65
315.0	40.22	35.14	28.59	24.54	21.79	21.10	20.93	20.50	19.03
360.0	147.69	90.42	45.56	33.67	28.76	22.65	18.52	16.02	15.50
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.16	15.07	14.73	14.64	14.55	14.38	14.12	13.95	13.78
45.0	20.15	19.63	18.60	17.57	16.71	15.59	13.95	12.57	11.11
90.0	26.18	24.63	22.39	19.20	16.53	13.95	12.66	11.54	10.76
135.0	20.75	19.98	19.03	17.57	15.67	14.38	13.35	12.14	10.94
180.0	14.04	14.30	14.64	14.90	14.90	14.81	14.30	13.35	12.06
225.0	15.50	13.78	12.57	11.28	10.42	9.73	9.21	8.87	8.70
270.0	20.50	17.91	15.67	14.04	12.14	11.02	10.33	9.90	9.82
315.0	17.57	16.10	14.30	12.75	11.45	10.42	9.65	9.30	9.04
360.0	15.16	15.07	14.73	14.64	14.55	14.38	14.12	13.95	13.78
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.00	11.88	10.85	9.99	9.47	8.96	8.61	8.35	8.27
45.0	10.16	9.56	9.21	8.96	8.70	8.61	8.44	8.35	8.27
90.0	10.42	10.08	9.82	9.65	9.47	9.21	9.13	8.96	8.87
135.0	10.08	9.47	9.21	9.13	8.96	8.87	8.78	8.61	8.44
180.0	10.94	9.90	9.21	8.70	8.44	8.35	8.18	8.10	7.92
225.0	8.53	8.44	8.35	8.27	8.18	8.10	7.92	7.75	7.66
270.0	9.65	9.56	9.39	9.30	9.13	9.13	9.04	8.87	8.87
315.0	8.96	8.78	8.61	8.35	8.27	8.18	8.10	8.01	7.84
360.0	13.00	11.88	10.85	9.99	9.47	8.96	8.61	8.35	8.27
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.10	8.01	7.92	7.84	7.66	7.58	7.49	7.49	7.32
45.0	8.10	8.10	7.92	7.75	7.75	7.58	7.49	7.41	7.32
90.0	8.78	8.70	8.61	8.53	8.35	8.27	8.18	8.01	7.84
135.0	8.27	8.10	7.84	7.75	7.58	7.49	7.41	7.41	7.32
180.0	7.84	7.66	7.66	7.58	7.49	7.41	7.41	7.32	7.32
225.0	7.58	7.49	7.49	7.41	7.32	7.23	7.23	7.23	7.23
270.0	8.70	8.70	8.61	8.53	8.35	8.18	8.01	7.84	7.66
315.0	7.66	7.58	7.49	7.41	7.32	7.23	7.15	7.15	7.06
360.0	8.10	8.01	7.92	7.84	7.66	7.58	7.49	7.49	7.32
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.32	7.23	7.23	7.23	7.15	7.06	6.98	6.98	6.89
45.0	7.23	7.23	7.15	7.15	7.06	6.98	6.80	6.80	6.72
90.0	7.66	7.58	7.41	7.23	7.15	6.89	6.72	6.63	6.54
135.0	7.23	7.15	7.15	7.15	7.06	6.98	6.80	6.72	6.63
180.0	7.23	7.23	7.15	7.06	6.89	6.89	6.80	6.80	6.46
225.0	7.23	7.15	7.06	6.72	6.72	6.63	6.63	6.37	6.37
270.0	7.49	7.32	7.23	6.89	6.72	6.63	6.46	6.37	6.37
315.0	6.98	6.98	6.89	6.80	6.63	6.63	6.46	6.29	6.29
360.0	7.32	7.23	7.23	7.23	7.15	7.06	6.98	6.98	6.89

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	6.80
45.0	6.63
90.0	6.46
135.0	6.54
180.0	6.37
225.0	6.37
270.0	6.37
315.0	6.29
360.0	6.80