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Nata

Client: NT

LumCAT: 1-1763-LM

Luminaire: 92.70.492.00 LED HOLDER

Report No: 20251031-B002

Ballast type: DC

Test No: 20251031-C002

Voltage(V): 34.580

LampCAT: PHILIPS SLM 1203 L09 1313 G8N

Current(A): 0.217

Lamp flux(lm): 1323.0

Power (W): 7.503

Number of Lamps: 1

PF: 0.000

Length(mm): 45

Width(mm): 45

Phm Type: C

Height(mm): 19

Photometric Results

Lumens(lm): 1260.32, Efficiency(%): 95.26% , Luminous Efficacy(lm/W): 167.98

Central intensity(cd): 3946.246, Maximum intensity(cd): 3946.246

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.4

[C90/270]Total=24.4

Field angle(10%Imax): [C0/180]Total=68.0

[C90/270]Total=68.0

Maximum s/h(1/2): C0_180=0.41 C90_270=0.41

Maximum s/h(1/4): C0_180=0.41 C90_270=0.41

Up flux rate of lamp(%): 0.00%

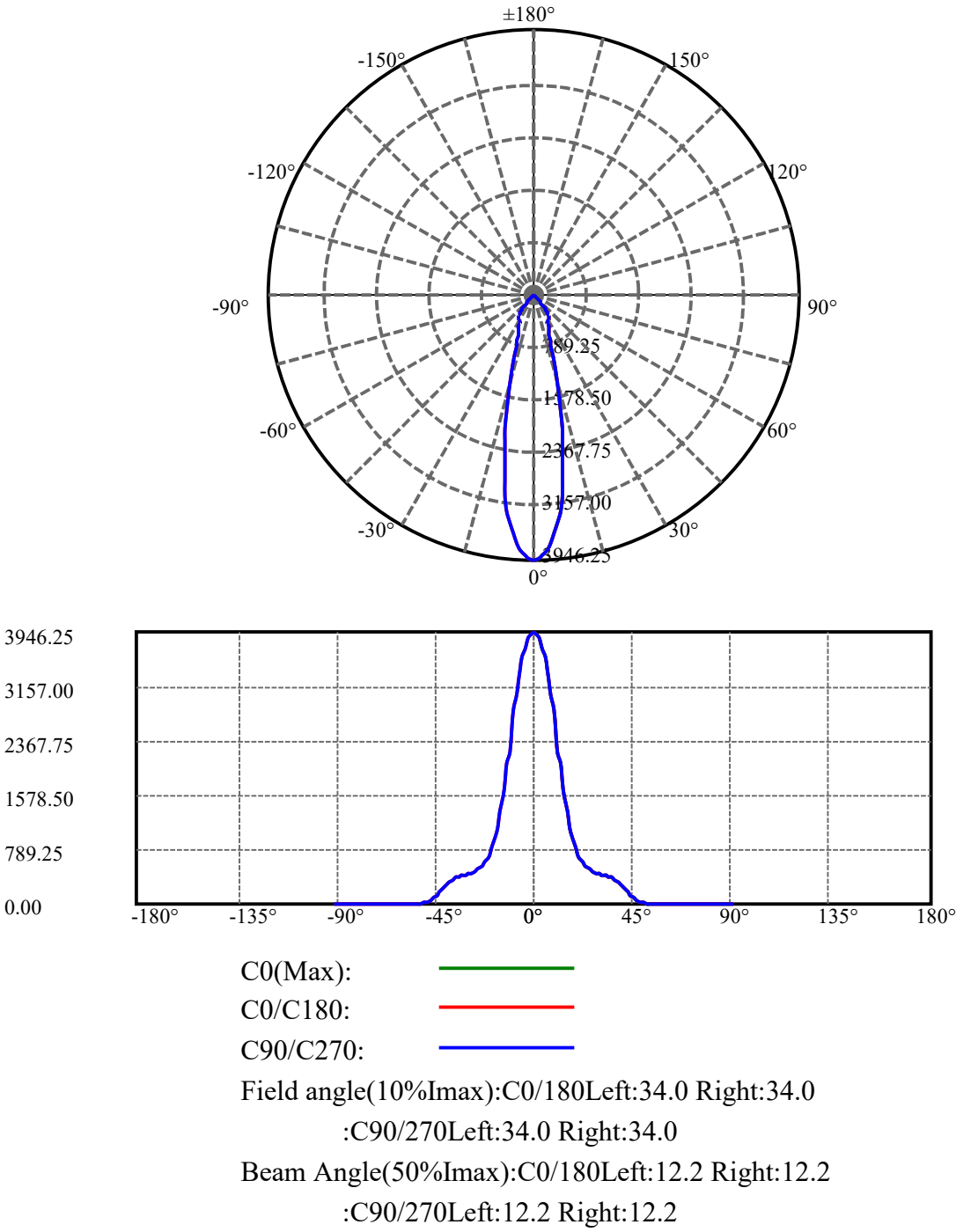
Down flux rate of lamp(%): 95.26%

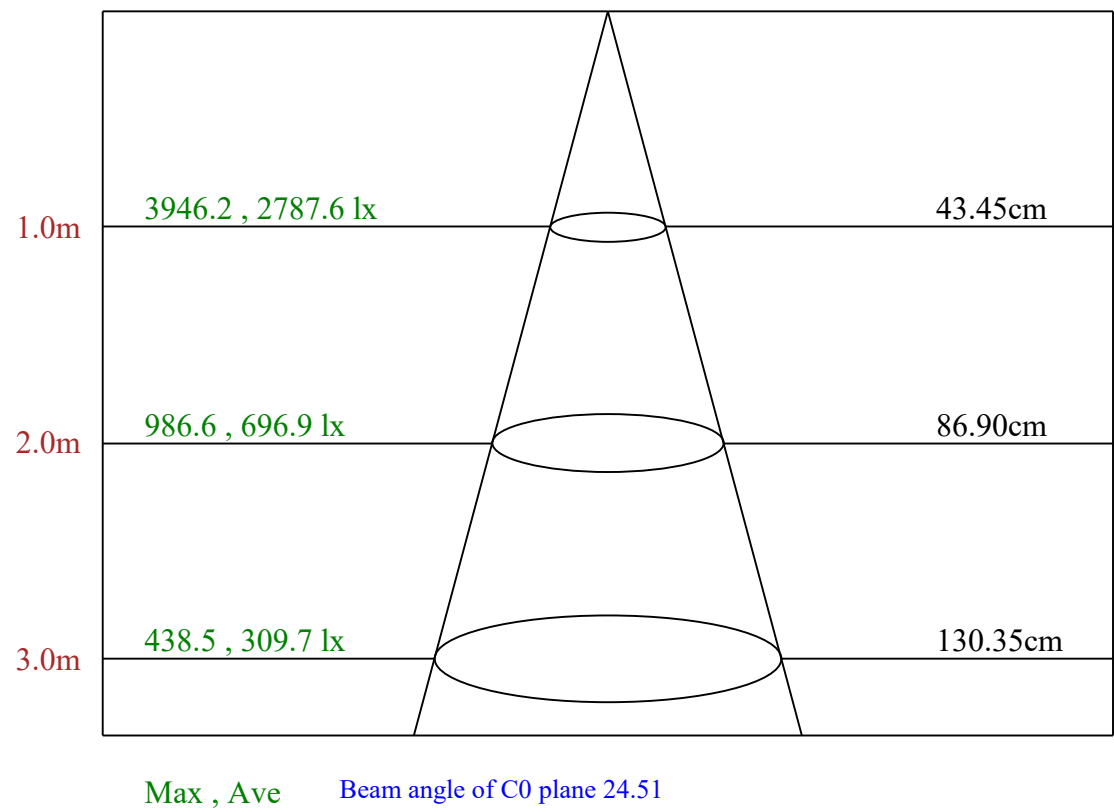
Up flux rate of LUM(%): - -

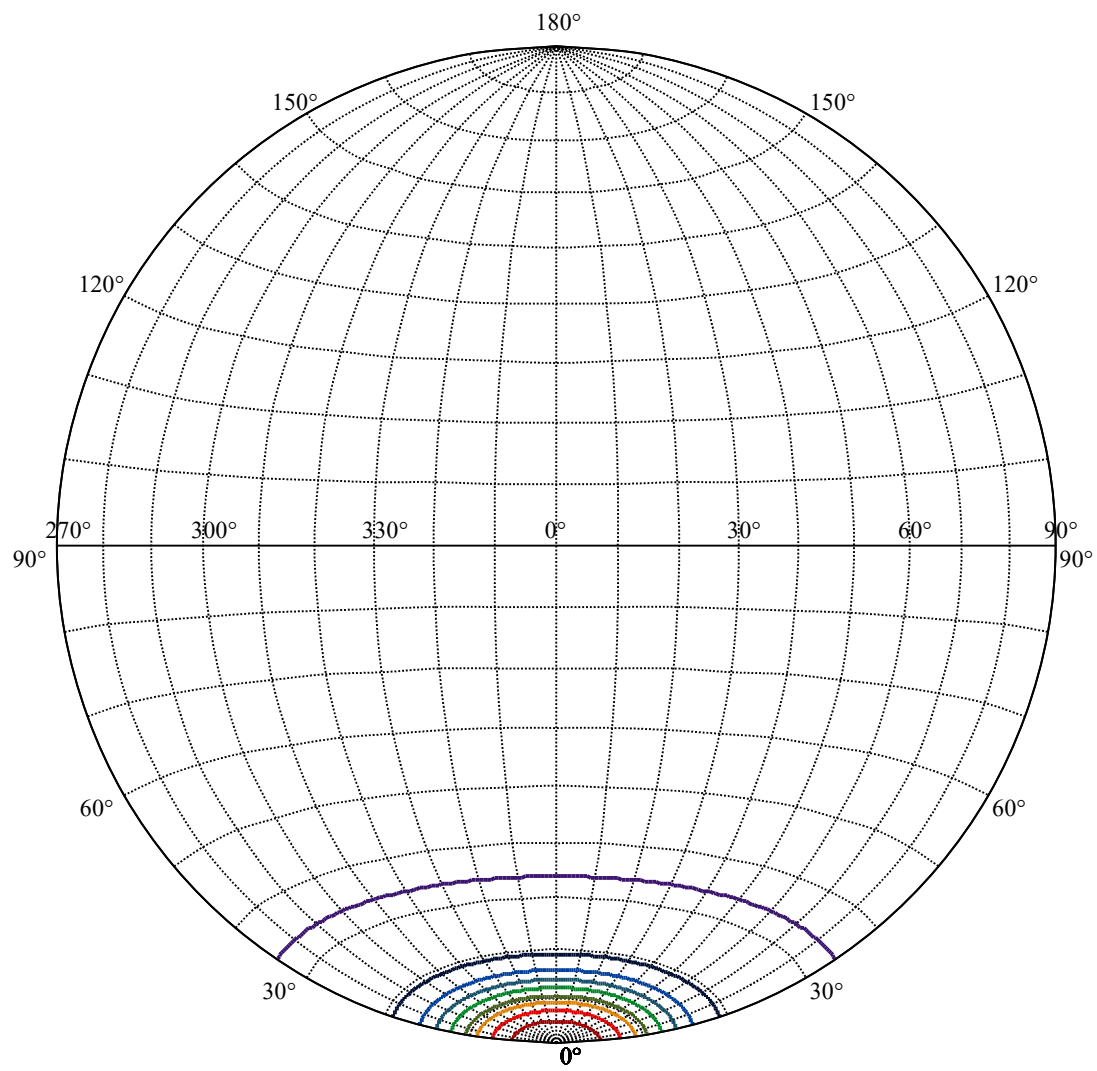
Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.319%





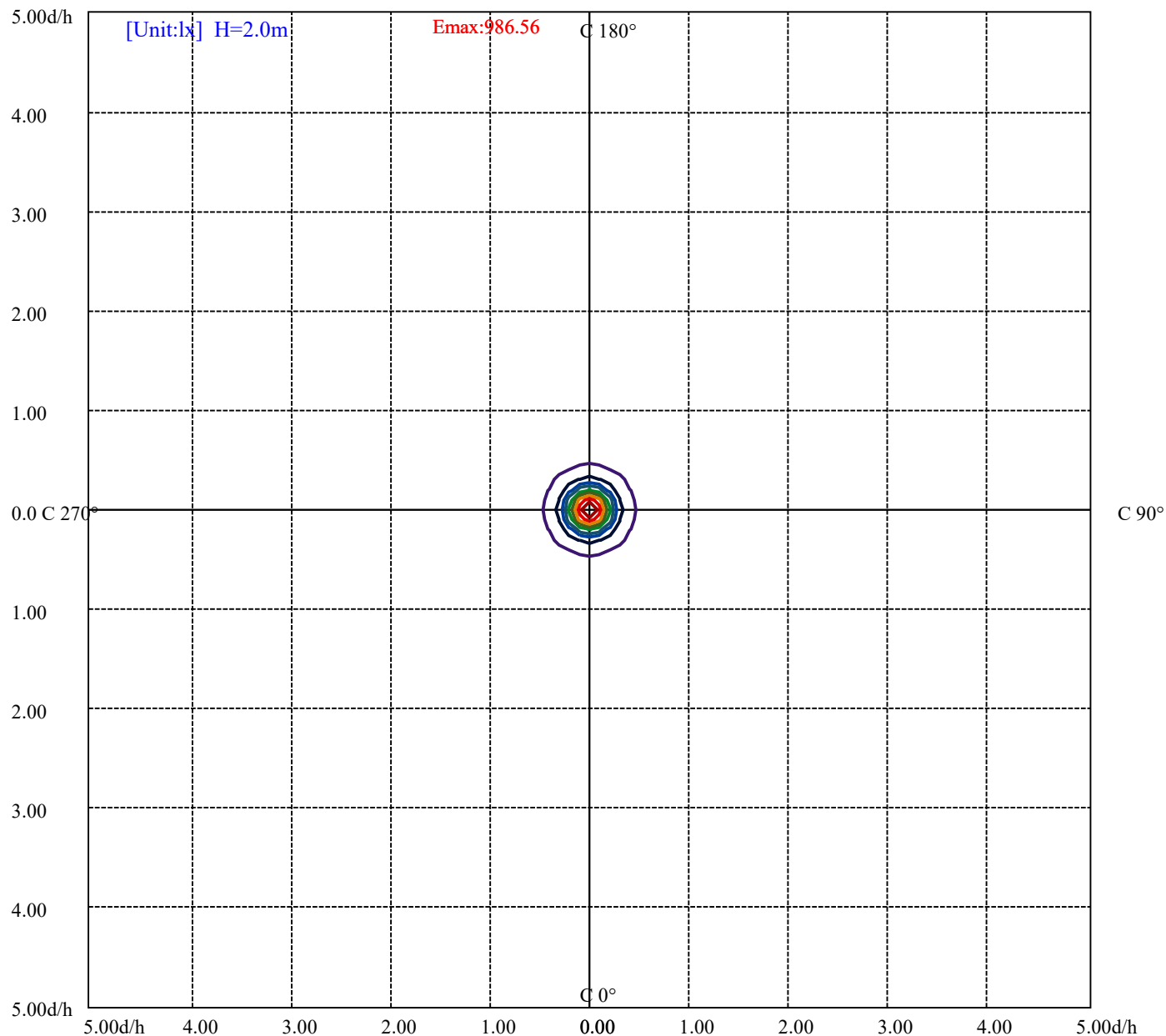


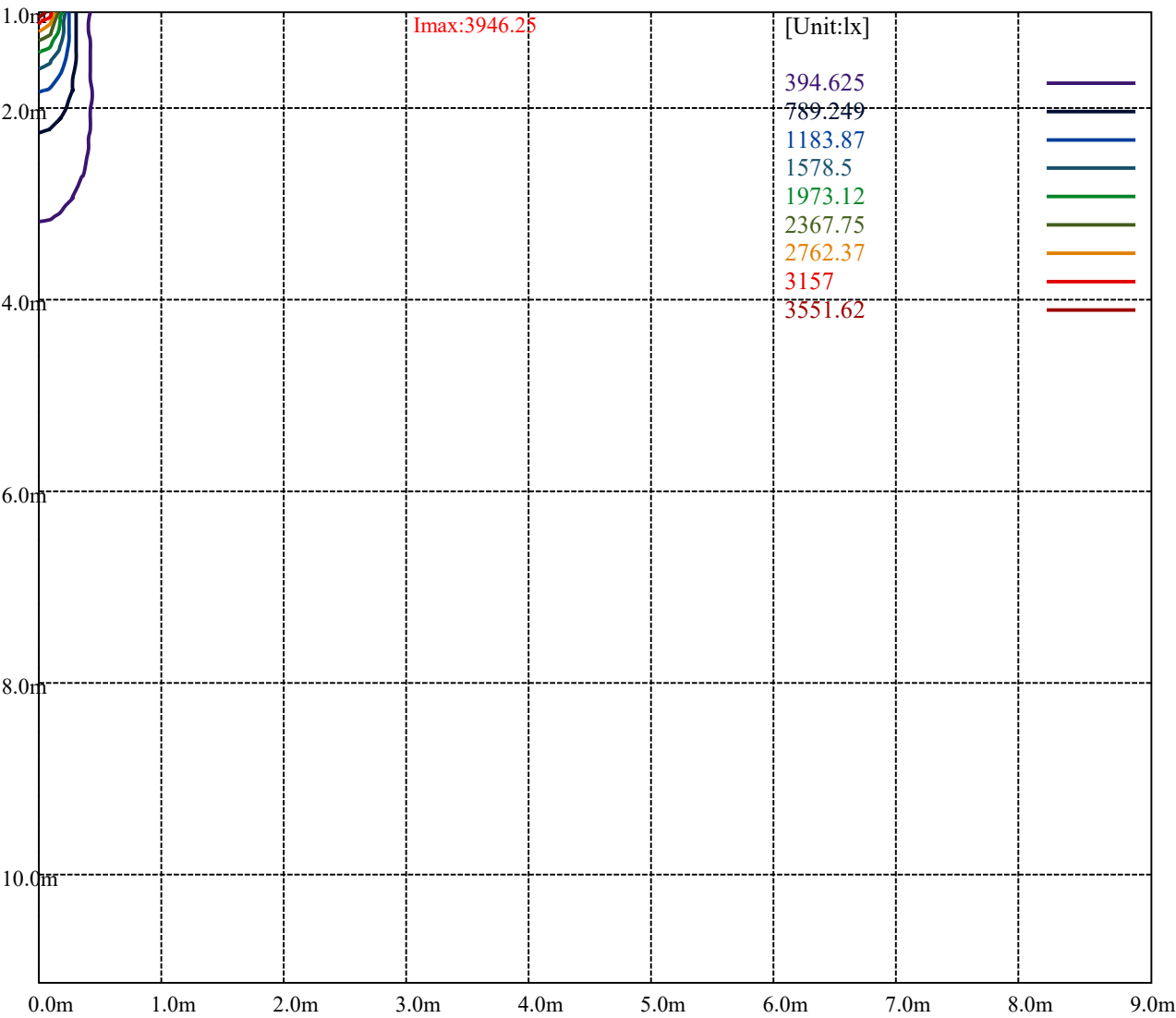
House

[Unit:cd]

Road

Imax:3946.25	
(10%Imax) 394.625	
(20%Imax) 789.249	
(30%Imax) 1183.87	
(40%Imax) 1578.5	
(50%Imax) 1973.12	
(60%Imax) 2367.75	
(70%Imax) 2762.37	
(80%Imax) 3157	
(90%Imax) 3551.62	





Luminance Table

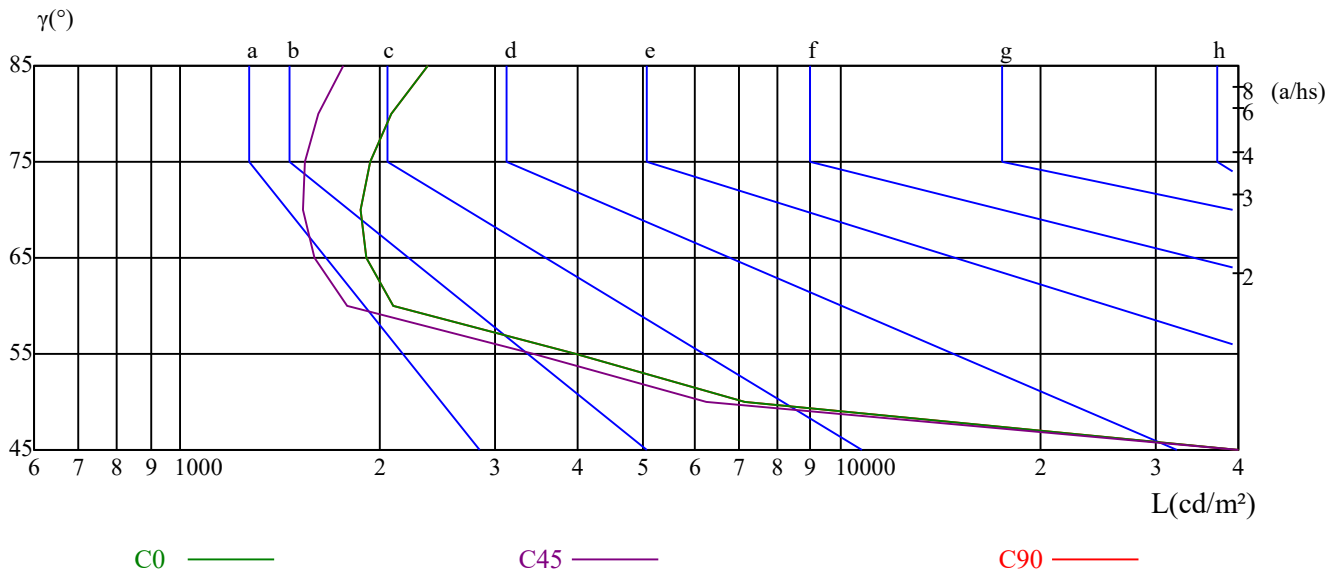
γ	45	50	55	60	65	70	75	80	85
C0	48150	7141	3960	2100	1908	1878	1938	2083	2366
C45	42878	6272	3427	1787	1594	1536	1546	1612	1762
C90	48150	7141	3960	2100	1908	1878	1938	2083	2366

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3635	3635	3635	4991	4991	4991	13785	13785	13785

Glare Table

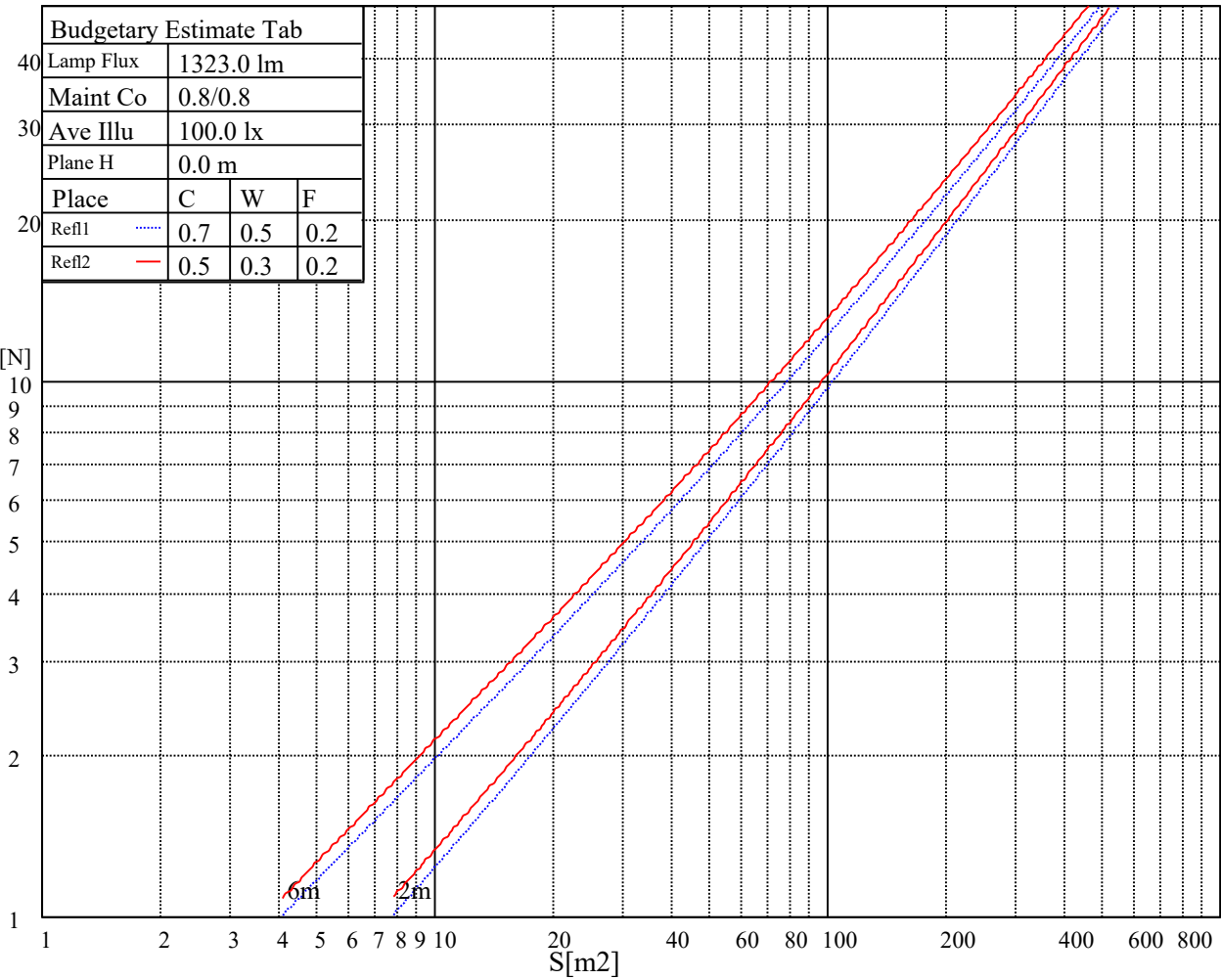
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

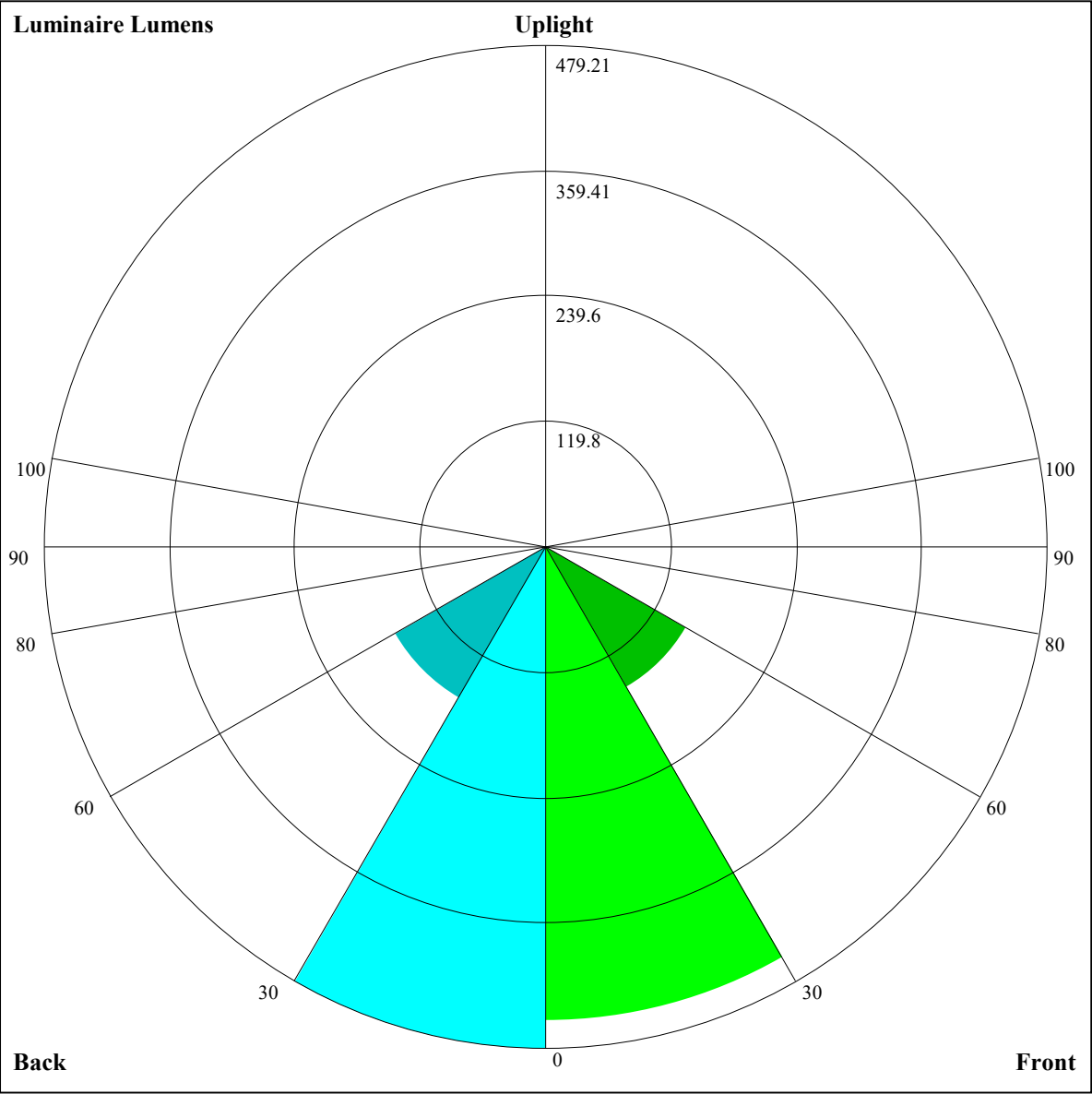


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	20.95	21.94	21.31	22.25	22.56	21.44	22.42	21.80	22.73	23.05
	3H	20.75	21.63	21.14	21.96	22.31	21.24	22.11	21.63	22.45	22.80
	4H	20.66	21.47	21.06	21.82	22.19	21.14	21.95	21.54	22.30	22.67
	6H	20.58	21.32	21.00	21.70	22.10	21.07	21.80	21.48	22.18	22.58
	8H	20.52	21.22	20.94	21.61	22.01	21.00	21.70	21.42	22.09	22.49
	12H	20.46	21.13	20.89	21.52	21.94	20.94	21.60	21.36	22.00	22.42
4H	2H	20.64	21.45	21.04	21.80	22.17	21.13	21.94	21.53	22.29	22.66
	3H	20.41	21.09	20.84	21.48	21.90	20.90	21.57	21.32	21.96	22.38
	4H	20.35	20.93	20.79	21.35	21.80	20.83	21.41	21.27	21.84	22.29
	6H	20.23	20.74	20.71	21.20	21.65	20.71	21.22	21.18	21.67	22.13
	8H	20.19	20.66	20.68	21.12	21.60	20.67	21.14	21.15	21.60	22.07
	12H	20.16	20.60	20.65	21.05	21.57	20.63	21.07	21.12	21.52	22.04
8H	4H	20.15	20.63	20.64	21.09	21.56	20.64	21.11	21.12	21.57	22.04
	6H	20.03	20.42	20.54	20.90	21.41	20.51	20.89	21.01	21.37	21.89
	8H	20.04	20.37	20.58	20.89	21.39	20.51	20.84	21.05	21.36	21.86
	12H	20.03	20.28	20.57	20.80	21.32	20.49	20.75	21.04	21.26	21.79
12H	4H	20.10	20.54	20.59	20.99	21.51	20.58	21.02	21.07	21.47	21.99
	6H	20.02	20.35	20.55	20.87	21.37	20.49	20.82	21.03	21.34	21.84
	8H	20.00	20.25	20.54	20.77	21.29	20.47	20.72	21.01	21.24	21.76
Variation with the observer position at spacings:											
S = 1.0H		3.6/-13.9					3.6/-13.9				
S = 1.5H		5.9/-13.2					5.9/-13.2				
S = 2.0H		7.9/-12.1					7.9/-12.1				
Standard tables:		BK0					BK0				
Uncorrected UGR		1.8					1.8				

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	1.13	1.13	1.13	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.95	0.94	0.93	0.93	0.92	0.90
2	1.00	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.85
3	0.94	0.89	0.86	0.92	0.89	0.85	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.83	0.81	0.80
4	0.89	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.76
5	0.84	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.72
6	0.80	0.75	0.71	0.79	0.74	0.71	0.78	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.68
7	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.65
8	0.72	0.67	0.64	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.62
9	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
10	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.57



Luminaire Lumens:

FL=452.37,FM=155.46,FH=2.96,FVH=1.33

BL=479.21,BM=166.22,BH=2.98,BVH=1.33

UL=0,UH=0

BUG Rating:B1-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	3967.56	3924.50	3852.16	3728.15	3611.03	3469.80	3269.14	3079.68	2872.13
45.0	3933.11	3966.70	3963.25	3906.42	3830.63	3735.04	3621.36	3451.71	3292.39
90.0	3967.56	3975.31	3933.97	3871.11	3786.71	3685.95	3531.80	3384.54	3216.61
135.0	3916.75	3961.53	3969.28	3941.73	3888.33	3809.96	3715.23	3567.11	3429.32
180.0	3967.56	3963.25	3928.81	3873.69	3778.96	3679.93	3562.80	3425.01	3225.22
225.0	3933.11	3877.14	3784.99	3689.40	3569.69	3394.01	3226.08	3034.90	2756.74
270.0	3967.56	3927.09	3842.69	3750.54	3642.03	3480.13	3325.12	3143.41	2884.19
315.0	3916.75	3827.19	3733.32	3616.20	3443.10	3281.20	3040.07	2821.32	2584.50
360.0	3967.56	3924.50	3852.16	3728.15	3611.03	3469.80	3269.14	3079.68	2872.13
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2587.94	2345.95	1672.25	1672.25	1615.67	1363.00	1188.00	1040.05	920.18
45.0	3063.32	2854.91	2630.14	2326.14	2073.82	1830.96	1600.17	1342.67	1169.57
90.0	3022.84	2747.26	2509.58	2262.42	1713.15	1713.15	1493.90	1249.15	1090.86
135.0	3265.70	3083.99	2816.16	2584.50	2338.20	2024.73	1782.74	1498.55	1298.75
180.0	3035.76	2820.46	2519.05	2266.72	2014.40	1707.81	1488.21	1297.89	1098.10
225.0	2516.47	2259.83	1710.48	1710.48	1492.86	1301.94	1101.80	970.98	864.28
270.0	2652.53	2406.23	2153.05	1843.88	1610.50	1397.79	1215.22	1027.48	907.77
315.0	2337.34	1672.33	1672.33	1562.27	1357.31	1142.02	999.66	883.57	788.59
360.0	2587.94	2345.95	1672.25	1672.25	1615.67	1363.00	1188.00	1040.05	920.18
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	803.57	732.35	662.25	615.49	576.56	538.07	512.66	492.51	472.27
45.0	1028.34	911.22	801.85	730.37	675.25	616.69	577.94	546.94	513.35
90.0	959.19	827.60	749.57	684.38	632.54	579.49	547.11	520.50	497.76
135.0	1128.24	991.31	853.52	768.26	701.09	647.70	593.44	558.13	529.71
180.0	966.33	862.99	780.32	696.78	641.67	596.89	560.72	523.69	500.43
225.0	777.82	692.56	638.05	593.70	549.78	522.22	499.49	476.67	462.03
270.0	788.93	714.87	657.17	598.61	561.58	529.71	499.57	480.63	465.13
315.0	698.16	642.36	597.40	551.07	522.05	492.94	474.86	459.70	447.39
360.0	803.57	732.35	662.25	615.49	576.56	538.07	512.66	492.51	472.27
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	458.75	447.56	438.08	426.72	418.71	410.70	402.95	392.36	378.15
45.0	491.82	471.15	459.10	447.04	437.57	434.98	423.19	408.37	400.54
90.0	475.37	461.59	449.54	436.28	427.06	417.07	409.15	401.66	392.70
135.0	506.46	482.35	466.85	451.35	441.01	434.12	434.12	410.87	403.46
180.0	481.49	463.40	450.49	436.71	434.12	434.12	405.19	397.26	390.03
225.0	449.45	436.10	426.11	417.24	407.00	399.24	392.01	384.09	367.64
270.0	452.21	438.43	435.85	435.85	410.10	401.14	393.82	387.02	374.27
315.0	434.30	424.74	416.12	408.29	399.16	392.10	384.35	372.63	350.76
360.0	458.75	447.56	438.08	426.72	418.71	410.70	402.95	392.36	378.15
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	357.82	327.59	299.78	261.89	230.97	200.05	168.53	129.69	100.41
45.0	389.60	374.79	353.77	329.06	293.32	262.40	231.40	192.04	160.78
90.0	382.97	367.81	346.28	314.93	286.09	255.43	222.70	181.02	148.47
135.0	394.51	386.07	372.20	352.05	327.68	292.11	261.71	229.42	188.00
180.0	382.54	368.16	341.29	317.95	291.17	254.82	225.11	192.30	161.73
225.0	348.00	324.41	298.57	263.35	232.86	194.71	163.54	132.02	95.94
270.0	357.82	336.72	305.46	276.10	247.42	207.98	174.30	140.63	110.49
315.0	328.63	297.45	268.78	238.89	198.33	165.78	134.00	103.08	69.07
360.0	357.82	327.59	299.78	261.89	230.97	200.05	168.53	129.69	100.41

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	72.68	49.52	26.35	16.53	12.66	11.20	10.08	9.21	8.27
45.0	123.84	95.07	67.69	44.44	23.77	14.98	12.31	11.02	9.65
90.0	117.21	80.69	56.15	36.26	19.98	13.35	11.97	10.42	9.56
135.0	156.48	125.39	88.01	61.83	34.88	22.39	14.47	12.31	11.11
180.0	124.10	93.70	62.35	40.91	25.15	15.16	13.18	11.71	10.59
225.0	68.72	46.59	28.76	16.71	13.69	12.40	11.37	10.25	9.47
270.0	75.10	50.81	32.47	20.50	12.83	11.80	10.85	9.90	9.21
315.0	46.33	28.94	18.34	12.49	11.54	10.51	9.47	8.78	8.10
360.0	72.68	49.52	26.35	16.53	12.66	11.20	10.08	9.21	8.27
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.49	6.63	4.56	4.05	3.96	3.79	3.62	3.44	3.36
45.0	8.78	8.01	7.15	6.29	4.48	3.96	3.79	3.62	3.53
90.0	8.70	8.01	7.06	6.03	4.39	4.22	4.05	3.88	3.79
135.0	9.73	8.96	8.27	7.15	5.94	3.96	3.79	3.70	3.53
180.0	9.56	8.70	7.75	6.29	4.13	3.88	3.79	3.62	3.44
225.0	8.61	6.72	4.22	4.05	3.88	3.70	3.53	3.36	3.36
270.0	8.35	7.32	4.65	3.88	3.79	3.62	3.53	3.36	3.27
315.0	6.98	4.65	3.96	3.79	3.70	3.53	3.36	3.27	3.19
360.0	7.49	6.63	4.56	4.05	3.96	3.79	3.62	3.44	3.36
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.27	3.19	3.10	3.01	3.01	2.93	2.84	2.76	2.76
45.0	3.36	3.19	3.19	3.10	3.01	2.93	2.93	2.84	2.84
90.0	3.62	3.44	3.27	3.27	3.19	3.10	3.01	3.01	2.93
135.0	3.36	3.27	3.19	3.01	3.01	2.93	2.93	2.84	2.84
180.0	3.36	3.27	3.19	3.10	3.01	3.01	2.93	2.84	2.84
225.0	3.19	3.10	3.01	2.93	2.93	2.84	2.84	2.76	2.76
270.0	3.19	3.10	3.01	2.93	2.93	2.84	2.76	2.76	2.67
315.0	3.10	3.01	2.93	2.93	2.84	2.76	2.76	2.67	2.67
360.0	3.27	3.19	3.10	3.01	3.01	2.93	2.84	2.76	2.76
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.67	2.76	2.67	2.67	2.58	2.58	2.58	2.58	2.50
45.0	2.76	2.67	2.67	2.67	2.58	2.58	2.50	2.58	2.50
90.0	2.84	2.76	2.67	2.67	2.58	2.58	2.58	2.50	2.50
135.0	2.76	2.67	2.67	2.58	2.58	2.58	2.50	2.58	2.50
180.0	2.76	2.67	2.67	2.67	2.58	2.58	2.58	2.50	2.50
225.0	2.67	2.58	2.58	2.58	2.58	2.50	2.50	2.50	2.50
270.0	2.67	2.67	2.58	2.58	2.58	2.58	2.58	2.50	2.50
315.0	2.67	2.67	2.58	2.50	2.58	2.50	2.50	2.50	2.41
360.0	2.67	2.76	2.67	2.67	2.58	2.58	2.58	2.58	2.50
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.50	2.50	2.50	2.50	2.50	2.50	2.41	2.41	2.50
45.0	2.50	2.50	2.50	2.50	2.50	2.41	2.41	2.41	2.41
90.0	2.50	2.50	2.41	2.50	2.41	2.41	2.41	2.41	2.41
135.0	2.50	2.50	2.50	2.41	2.41	2.41	2.41	2.41	2.41
180.0	2.50	2.50	2.41	2.50	2.41	2.41	2.41	2.41	2.41
225.0	2.50	2.50	2.50	2.41	2.41	2.41	2.41	2.41	2.41
270.0	2.50	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41
315.0	2.50	2.41	2.41	2.41	2.41	2.41	2.33	2.33	2.33
360.0	2.50	2.50	2.50	2.50	2.50	2.50	2.41	2.41	2.50

Intensity data(cd)

C/ γ (°)	90.0
0.0	2.41
45.0	2.41
90.0	2.41
135.0	2.33
180.0	2.41
225.0	2.41
270.0	2.41
315.0	2.41
360.0	2.41