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NT

Client: NT

LumCAT: 2-3119-LM

Luminaire: 92.70.121.00 LED HOLDER

Report No: 20251119-B004

Ballast type: AC

Test No: 20251119-C004

Voltage(V): 34.480

LampCAT: PHILIPS SLM 1208 L15 1919 G8

Current(A): 0.360

Lamp flux(lm): 2022.8

Power (W): 12.412

Number of Lamps: 1

PF: 0.000

Length(mm): 65

Width(mm): 65

Phm Type: C

Height(mm): 34

Photometric Results

Lumens(lm): 1948.80, Efficiency(%): 96.34% , Luminous Efficacy(lm/W): 157.01

Central intensity(cd): 5500.631, Maximum intensity(cd): 5500.631

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=28.4

[C90/270]Total=28.4

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

[C90/270]Total=68.0

Maximum s/h(1/2): C0_180=0.47 C90_270=0.47

Maximum s/h(1/4): C0_180=0.49 C90_270=0.49

Up flux rate of lamp(%): 0.00%

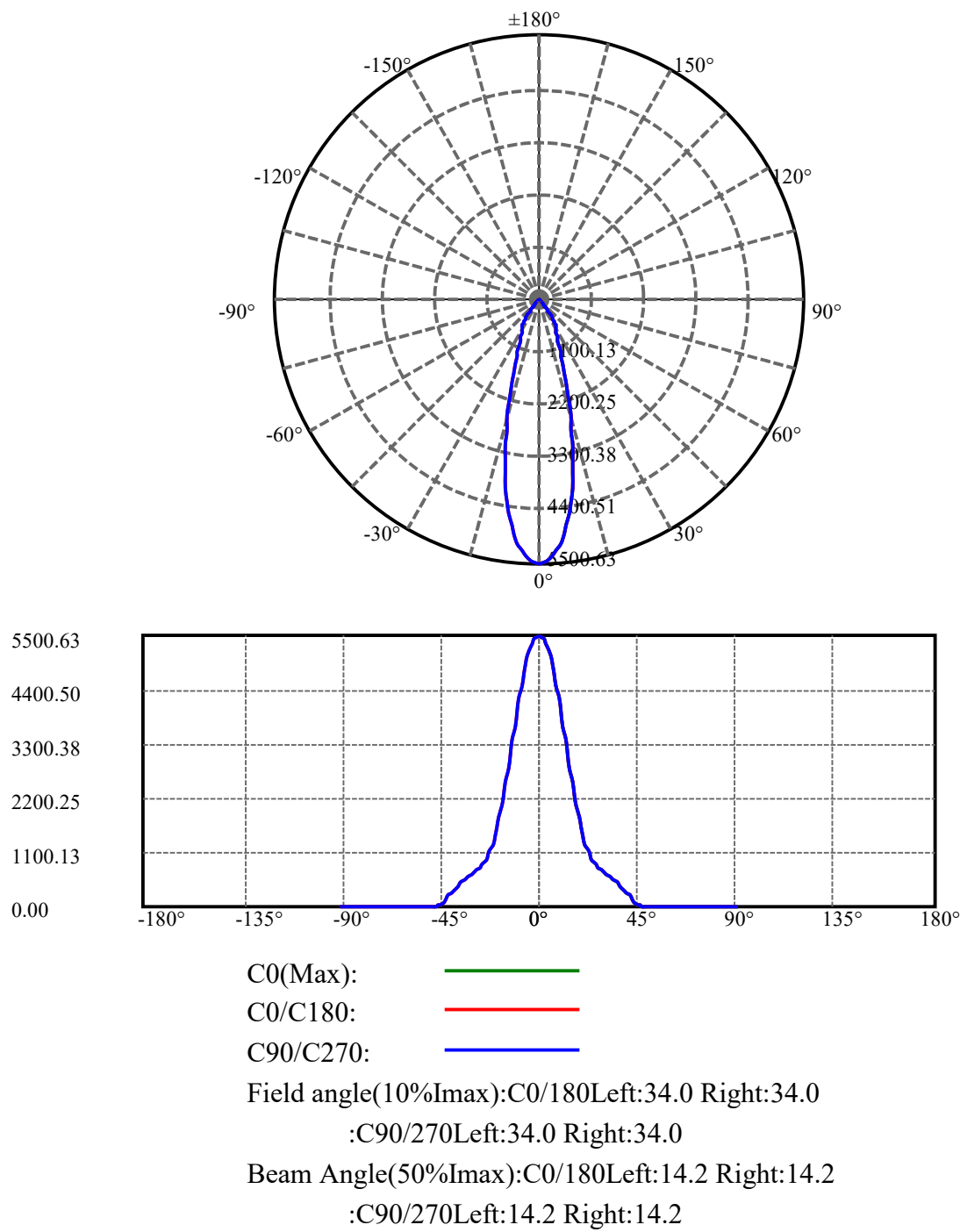
Down flux rate of lamp(%): 96.34%

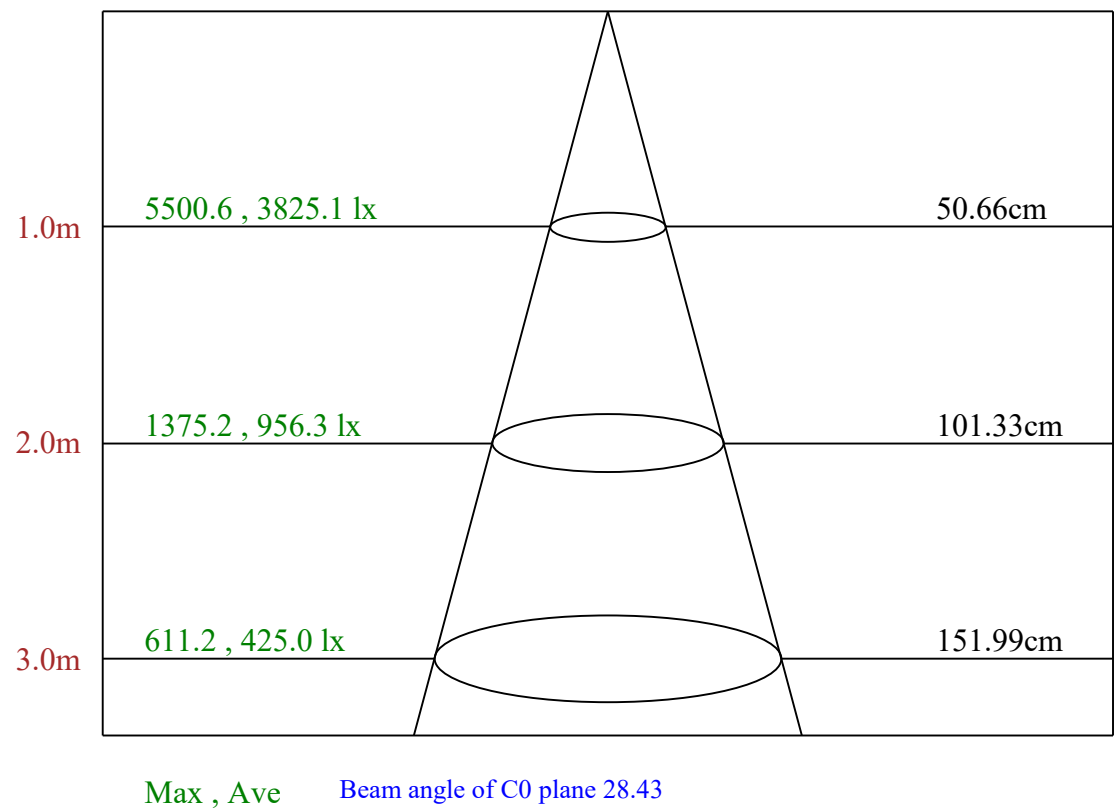
Up flux rate of LUM(%): - -

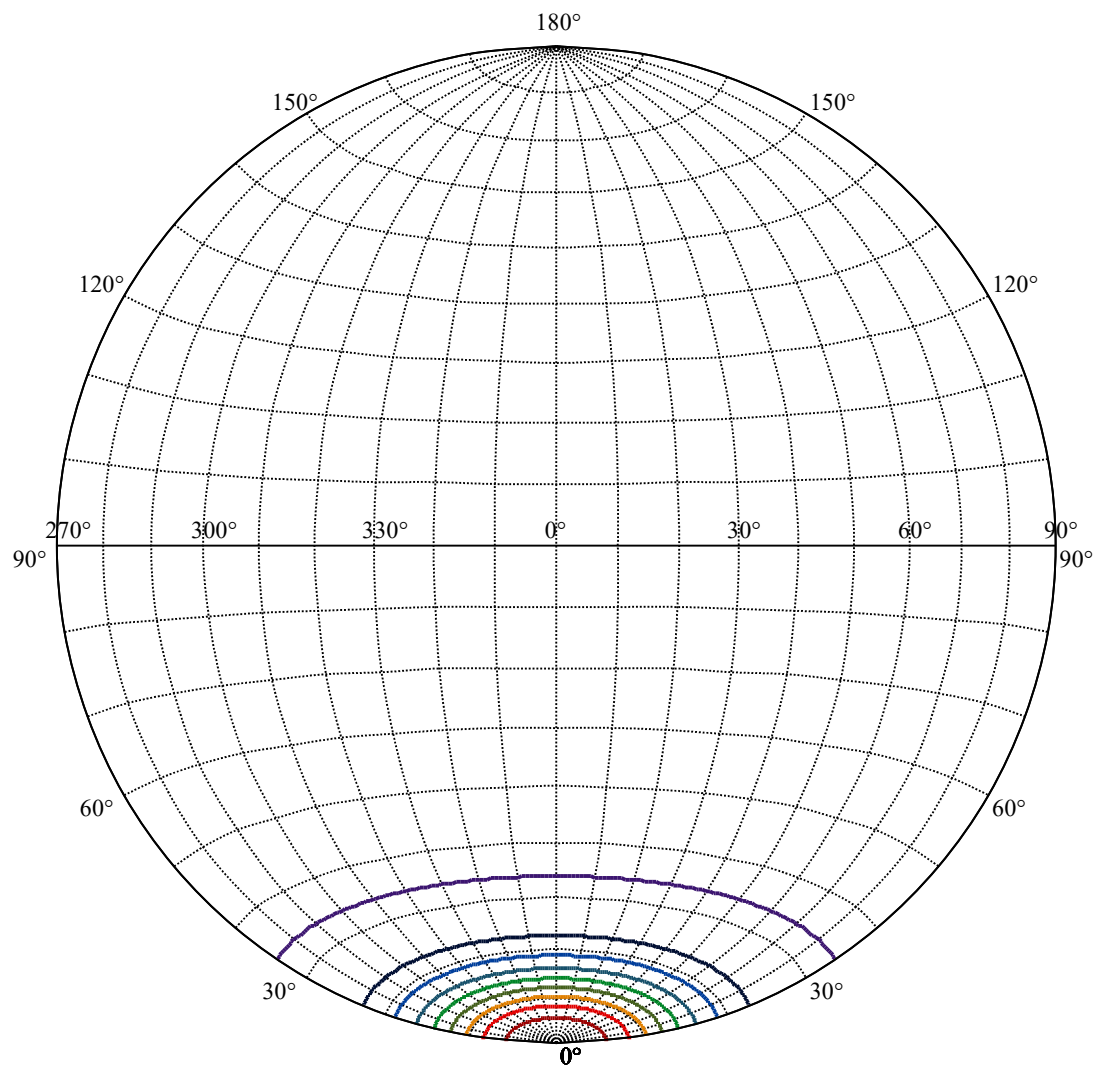
Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.875%





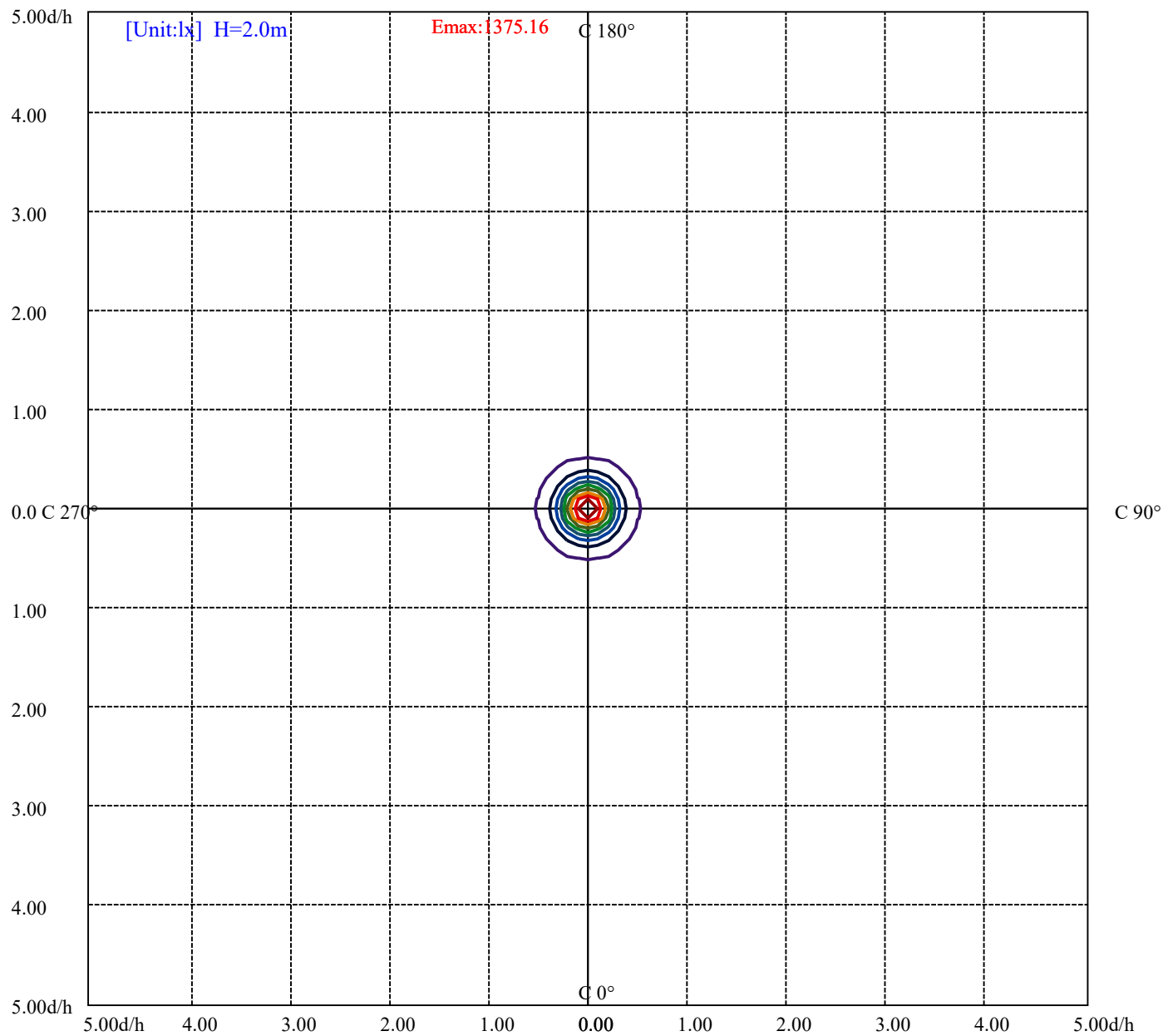


House

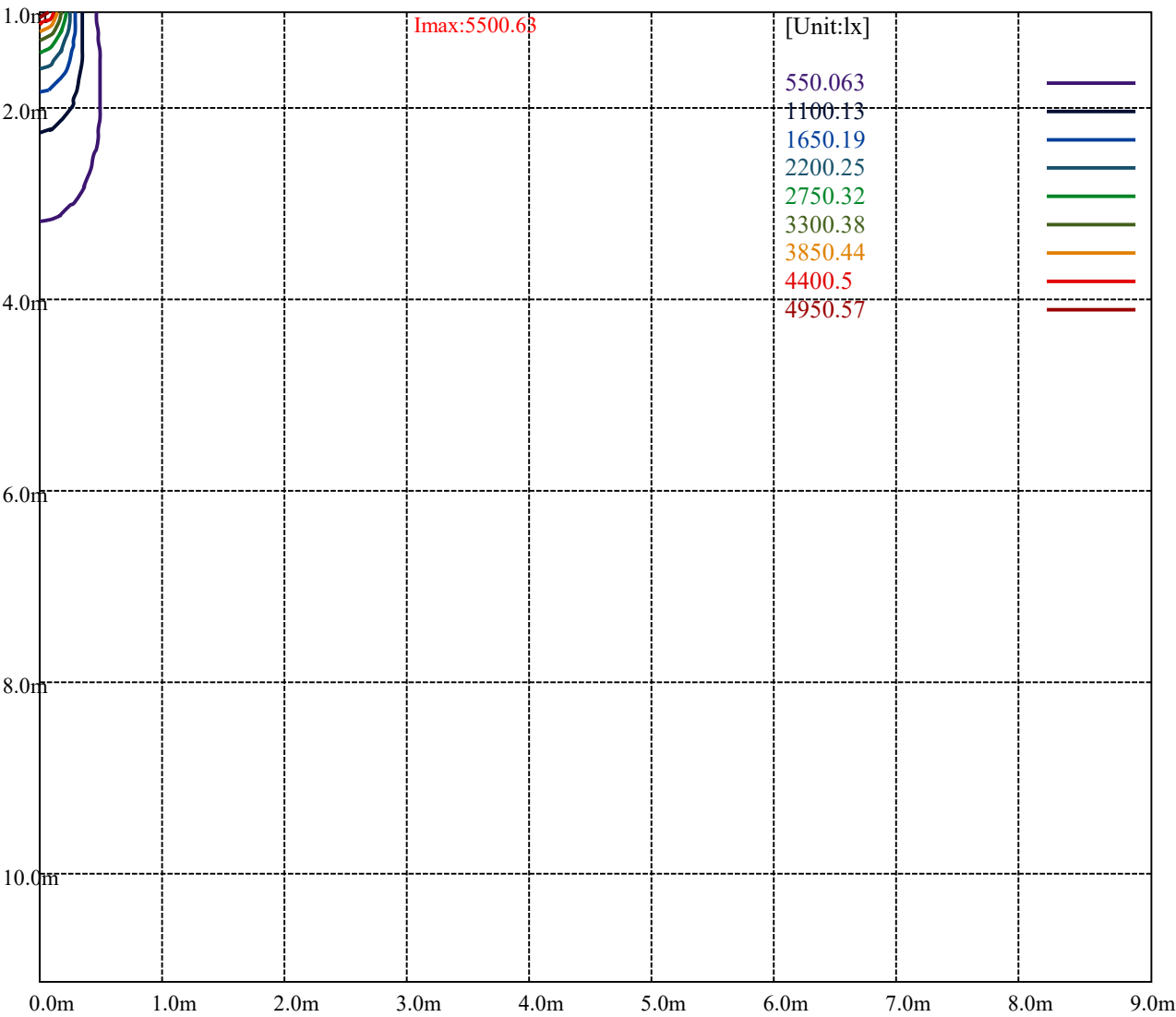
[Unit:cd]

Road

Imax:5500.63	
(10%Imax) 550.063	
(20%Imax) 1100.13	
(30%Imax) 1650.19	
(40%Imax) 2200.25	
(50%Imax) 2750.32	
(60%Imax) 3300.38	
(70%Imax) 3850.44	
(80%Imax) 4400.5	
(90%Imax) 4950.57	



(10%E _{max}) 137.5157	—
(20%E _{max}) 275.0325	—
(30%E _{max}) 412.5475	—
(40%E _{max}) 550.0625	—
(50%E _{max}) 687.5775	—
(60%E _{max}) 825.095	—
(70%E _{max}) 962.61	—
(80%E _{max}) 1100.125	—
(90%E _{max}) 1237.64	—



Luminance Table

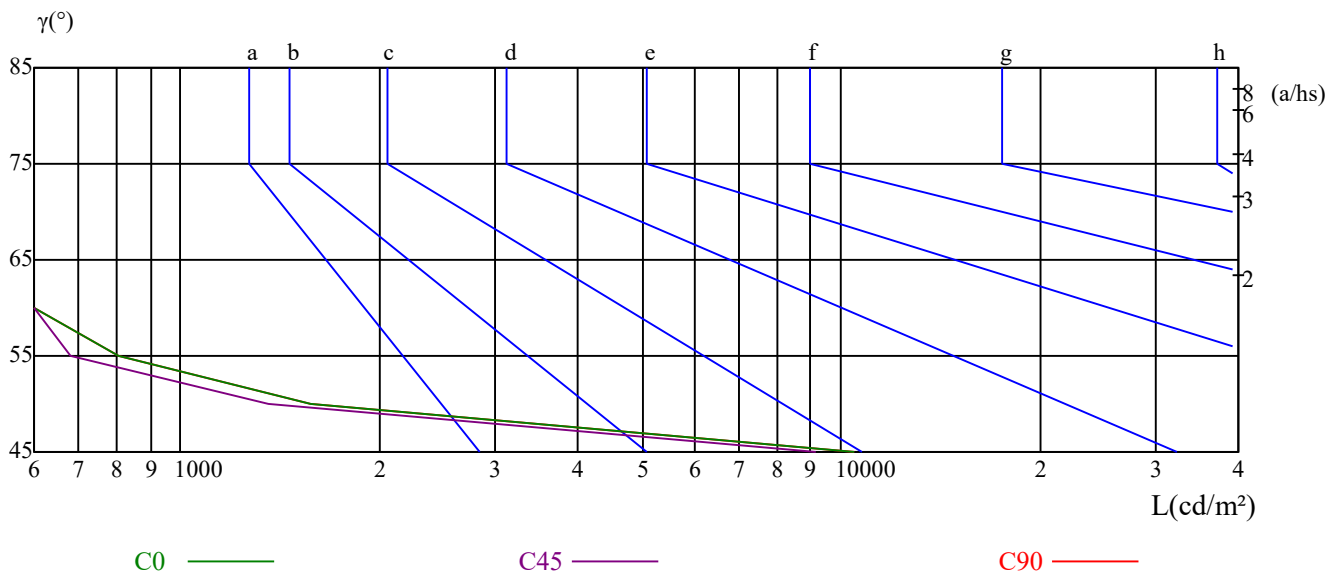
γ	45	50	55	60	65	70	75	80	85
C0	10498	1576	804	569	403	280	194	121	71
C45	9191	1359	683	476	330	225	152	92	53
C90	10498	1576	804	569	403	280	194	121	71

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
855	855	855	572	572	572	496	496	496

Glare Table

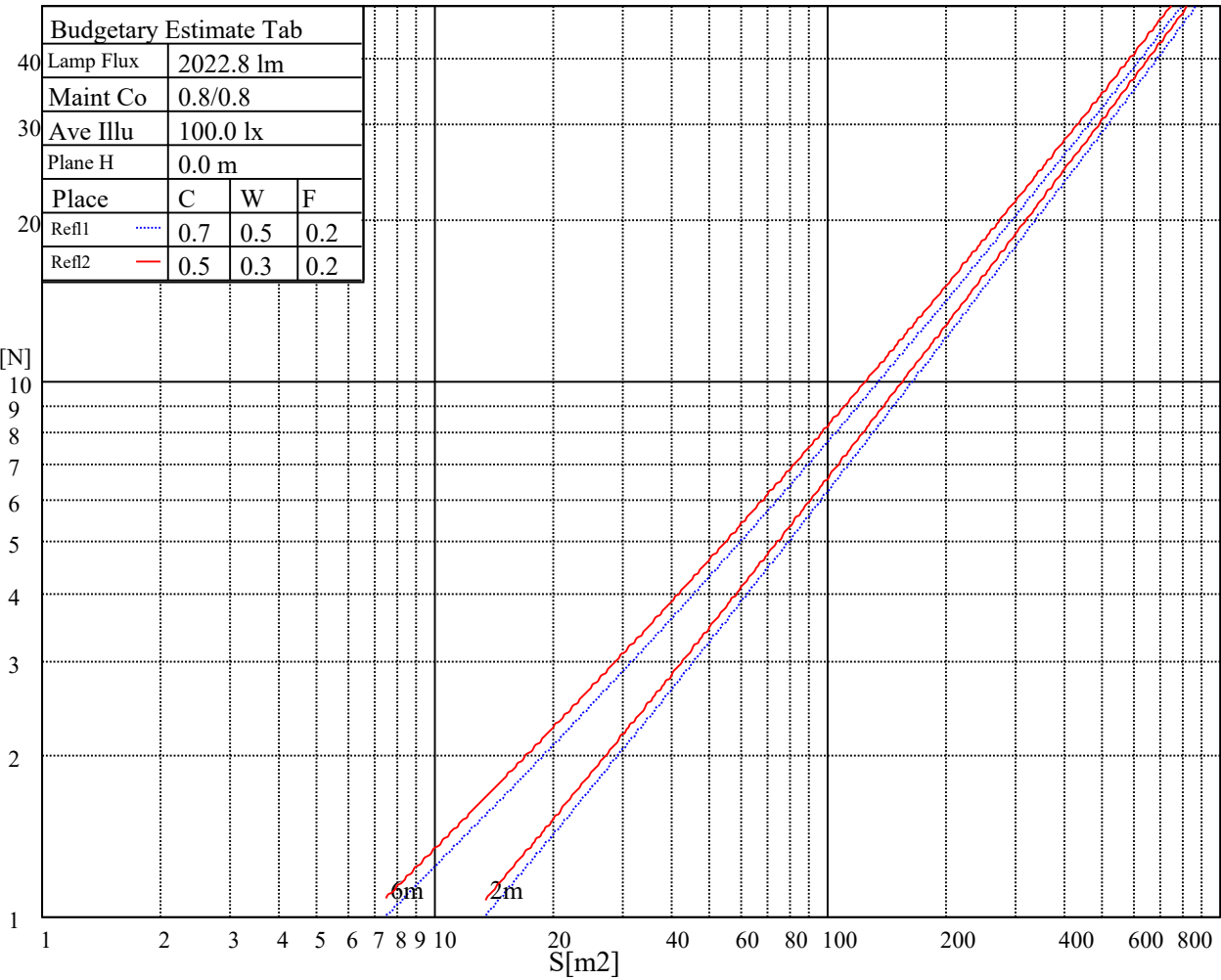
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

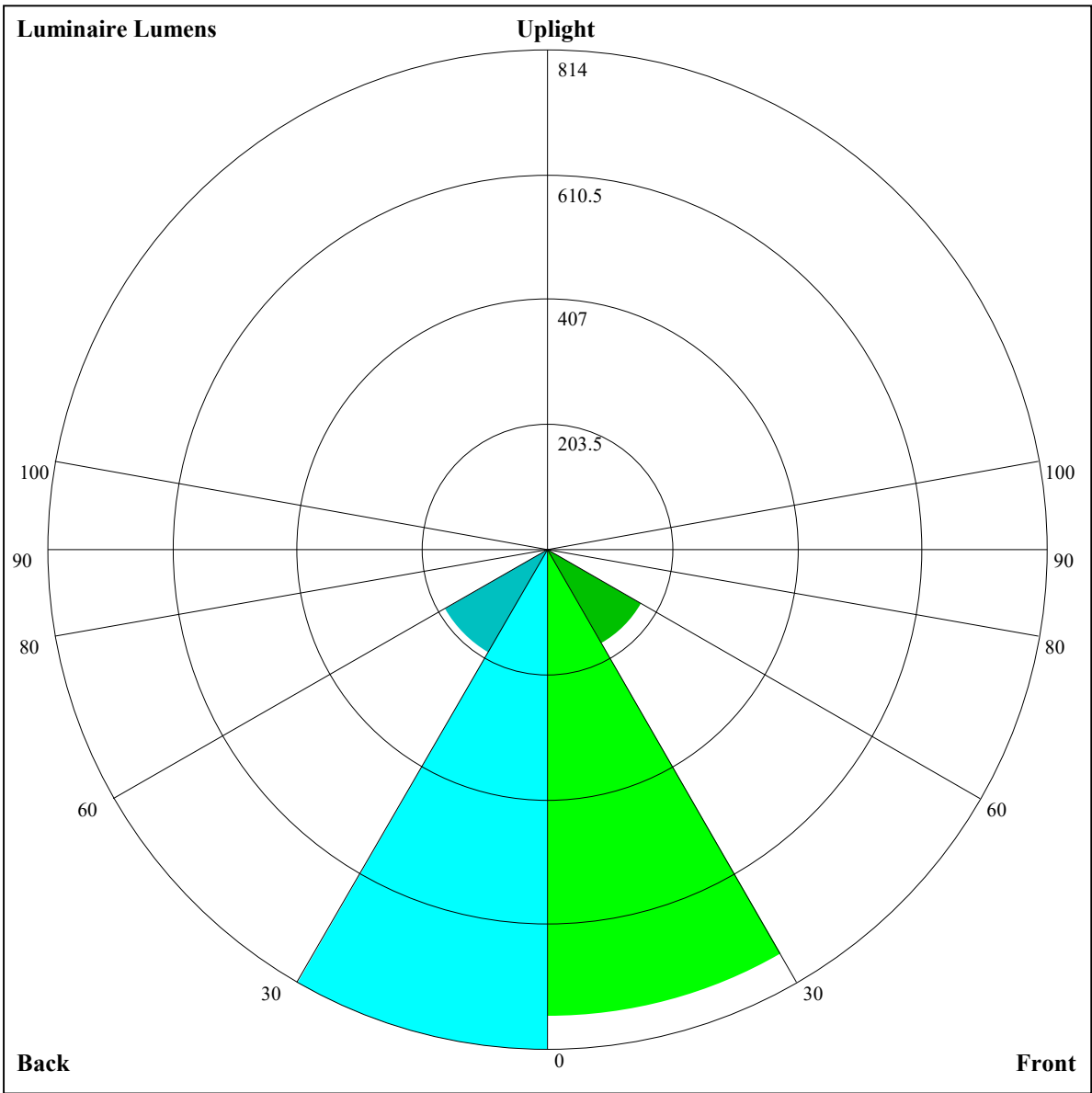


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	17.32	18.25	17.69	18.56	18.87	17.87	18.79	18.23	19.10	19.42
	3H	17.11	17.93	17.50	18.26	18.61	17.65	18.47	18.04	18.80	19.15
	4H	17.00	17.75	17.40	18.11	18.48	17.54	18.30	17.94	18.65	19.02
	6H	16.91	17.59	17.32	17.97	18.37	17.45	18.13	17.87	18.51	18.91
	8H	16.83	17.48	17.25	17.87	18.28	17.37	18.02	17.79	18.41	18.82
	12H	16.75	17.37	17.18	17.77	18.19	17.29	17.91	17.72	18.31	18.73
4H	2H	17.00	17.75	17.40	18.11	18.48	17.54	18.29	17.94	18.65	19.02
	3H	16.74	17.37	17.17	17.77	18.19	17.28	17.91	17.71	18.31	18.73
	4H	16.66	17.20	17.10	17.62	18.07	17.20	17.74	17.64	18.17	18.62
	6H	16.51	16.99	16.98	17.44	17.89	17.05	17.53	17.52	17.98	18.43
	8H	16.45	16.89	16.93	17.35	17.82	16.99	17.43	17.47	17.89	18.36
	12H	16.39	16.80	16.88	17.25	17.77	16.93	17.34	17.42	17.79	18.31
8H	4H	16.45	16.89	16.93	17.35	17.82	16.99	17.43	17.47	17.89	18.36
	6H	16.28	16.64	16.79	17.12	17.63	16.82	17.18	17.33	17.66	18.18
	8H	16.26	16.56	16.80	17.08	17.58	16.80	17.10	17.34	17.62	18.12
	12H	16.20	16.43	16.75	16.95	17.47	16.74	16.97	17.29	17.49	18.01
12H	4H	16.39	16.79	16.88	17.25	17.77	16.93	17.34	17.42	17.79	18.31
	6H	16.26	16.56	16.80	17.08	17.58	16.80	17.10	17.34	17.62	18.12
	8H	16.20	16.43	16.75	16.95	17.47	16.74	16.97	17.29	17.49	18.01
Variation with the observer position at spacings:											
S = 1.0H		4.7/-21.2					4.7/-21.2				
S = 1.5H		7.5/-22.2					7.5/-22.2				
S = 2.0H		9.5/-22.8					9.5/-22.8				
Standard tables:		BK0					BK0				
Uncorrected UGR		-1.4					-1.4				

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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.08	1.06	1.04	1.06	1.04	1.02	1.02	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92
2	1.02	0.98	0.95	1.00	0.97	0.94	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.90	0.88	0.87
3	0.96	0.92	0.89	0.95	0.91	0.88	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.86	0.84	0.82
4	0.91	0.86	0.83	0.90	0.86	0.82	0.88	0.84	0.81	0.86	0.83	0.81	0.84	0.82	0.80	0.78
5	0.86	0.82	0.78	0.86	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.75
6	0.82	0.77	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.71
7	0.79	0.74	0.70	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.68
8	0.75	0.70	0.67	0.75	0.70	0.67	0.74	0.69	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.65
9	0.72	0.67	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
10	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.60



Luminaire Lumens:

FL=761.66,FM=176.2,FH=1.07,FVH=0.1

BL=814,BM=194.81,BH=1.12,BVH=0.11

UL=0,UH=0

BUG Rating:B2-U0-G0

Intensity data(cd)

Appendix Page: 12 Total:14

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	5485.44	5417.94	5316.69	5150.19	5084.38	4851.51	4625.94	4374.51	4043.19
45.0	5504.01	5500.63	5467.44	5397.13	5337.51	5187.32	5025.88	4830.69	4604.01
90.0	5515.26	5493.88	5424.13	5329.07	5203.63	5010.13	4897.63	4686.13	4450.44
135.0	5497.82	5508.51	5501.76	5451.69	5373.51	5262.13	5122.63	5023.63	4790.76
180.0	5485.44	5518.07	5508.51	5470.82	5397.69	5336.38	5179.44	5018.01	4825.63
225.0	5504.01	5466.88	5398.82	5298.69	5135.01	5036.57	4845.88	4624.26	4377.32
270.0	5515.26	5514.13	5465.19	5423.01	5304.32	5169.88	5000.57	4797.51	4662.51
315.0	5497.82	5407.82	5348.76	5224.44	5133.32	4874.01	4604.57	4453.26	4183.26
360.0	5485.44	5417.94	5316.69	5150.19	5084.38	4851.51	4625.94	4374.51	4043.19
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3869.38	3570.13	3271.44	2976.69	2633.01	2469.88	2111.57	1841.01	1718.94
45.0	4454.94	4138.26	3738.32	3558.88	3257.94	2904.13	2619.51	2351.19	2198.19
90.0	4186.63	3845.76	3669.69	3372.13	2895.69	2720.76	2440.07	2180.19	1943.38
135.0	4565.19	4317.69	3991.44	3701.76	3405.88	3110.01	2935.07	2593.07	2321.94
180.0	4604.01	4301.94	4025.76	3736.63	3559.44	3203.94	2906.38	2618.94	2346.13
225.0	4050.51	3881.19	3588.13	3106.07	2986.26	2636.38	2360.76	2107.07	1830.32
270.0	4362.13	4087.07	3797.38	3500.94	3143.19	2850.69	2563.82	2398.44	2091.32
315.0	3899.19	3605.01	3249.51	3070.63	2781.51	2505.88	2197.07	1961.94	1830.88
360.0	3869.38	3570.13	3271.44	2976.69	2633.01	2469.88	2111.57	1841.01	1718.94
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1535.01	1373.57	1077.08	1077.08	1018.86	935.66	858.21	826.20	781.31
45.0	1915.82	1708.26	1526.01	1365.13	1279.07	1129.44	1027.07	944.38	864.51
90.0	1687.44	1572.69	1400.57	1089.62	1089.62	1028.36	942.24	873.06	807.98
135.0	2072.76	1842.69	1716.69	1491.13	1328.57	1187.94	1049.57	957.88	884.19
180.0	2190.88	1907.94	1697.01	1509.69	1346.57	1259.94	1067.57	972.51	925.26
225.0	1707.69	1521.51	1359.51	1063.13	1063.13	1005.92	923.40	846.45	815.18
270.0	1864.63	1662.69	1482.69	1385.94	1214.94	1097.38	999.51	917.38	875.76
315.0	1561.44	1368.51	1118.48	1118.48	1075.73	966.21	893.81	835.43	787.50
360.0	1535.01	1373.57	1077.08	1077.08	1018.86	935.66	858.21	826.20	781.31
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	743.06	709.31	674.72	659.08	628.48	589.61	536.23	486.96	455.51
45.0	841.44	767.19	730.63	710.38	676.07	649.07	614.19	572.01	545.57
90.0	781.03	741.32	708.13	679.33	650.25	632.87	579.99	525.71	497.42
135.0	825.13	795.32	744.69	710.38	680.57	656.38	642.88	606.32	552.88
180.0	847.07	796.44	754.26	718.82	699.69	667.63	644.01	613.63	568.07
225.0	769.50	731.87	699.08	666.45	652.61	621.90	556.65	528.75	481.50
270.0	789.69	747.51	725.57	687.32	660.32	635.01	601.26	576.51	523.63
315.0	739.01	717.98	685.58	659.25	630.90	586.07	560.48	494.49	463.84
360.0	743.06	709.31	674.72	659.08	628.48	589.61	536.23	486.96	455.51
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	380.64	315.68	283.05	229.73	179.44	132.47	82.91	62.44	34.93
45.0	487.63	436.44	384.69	322.82	301.44	301.44	171.56	152.89	101.25
90.0	447.58	395.55	343.97	280.97	250.82	201.32	154.18	110.19	63.45
135.0	525.88	476.94	446.57	361.63	307.63	296.38	236.19	149.06	121.78
180.0	550.63	494.94	423.51	391.44	326.19	304.26	304.26	166.56	119.81
225.0	430.76	378.79	316.13	285.47	235.18	186.24	139.39	88.37	66.21
270.0	475.82	425.76	364.44	312.13	291.32	291.32	189.62	134.04	77.12
315.0	411.13	345.77	291.21	237.99	177.58	148.73	104.63	67.05	38.53
360.0	380.64	315.68	283.05	229.73	179.44	132.47	82.91	62.44	34.93

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	19.41	13.84	10.74	8.04	5.85	4.50	4.28	3.99	3.77
45.0	63.96	35.21	16.99	13.73	10.63	7.88	6.47	4.67	4.28
90.0	34.14	17.94	12.99	11.25	8.27	5.85	4.28	3.77	3.66
135.0	73.97	42.75	22.84	14.23	12.71	9.34	6.86	5.06	4.39
180.0	78.58	46.29	31.44	15.75	12.60	9.62	7.03	5.68	4.28
225.0	36.73	19.91	13.84	10.69	7.82	5.57	4.28	3.99	3.77
270.0	56.25	26.38	15.53	12.83	9.73	7.99	5.23	3.99	3.77
315.0	19.13	14.68	10.97	7.88	6.53	4.84	4.16	3.88	3.66
360.0	19.41	13.84	10.74	8.04	5.85	4.50	4.28	3.99	3.77
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	3.49	3.15	2.98	2.70	2.59	2.36	2.19	2.03	1.86
45.0	3.94	3.66	3.54	3.04	2.87	2.70	2.48	2.31	2.08
90.0	3.38	3.15	2.87	2.64	2.42	2.25	2.08	1.97	1.80
135.0	4.16	3.88	3.49	3.32	3.04	2.81	2.59	2.42	2.25
180.0	3.94	3.60	3.43	3.09	2.81	2.64	2.48	2.31	2.08
225.0	3.49	3.21	2.93	2.76	2.42	2.25	2.14	1.97	1.80
270.0	3.54	3.38	3.04	2.76	2.59	2.36	2.19	2.03	1.80
315.0	3.49	3.21	2.98	2.70	2.48	2.42	2.19	1.97	1.86
360.0	3.49	3.15	2.98	2.70	2.59	2.36	2.19	2.03	1.86
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	1.69	1.58	1.41	1.29	1.18	1.07	0.96	0.90	0.90
45.0	1.97	1.86	1.69	1.52	1.46	1.35	1.29	1.18	1.01
90.0	1.69	1.52	1.46	1.35	1.18	1.13	0.96	0.90	0.84
135.0	2.08	1.86	1.69	1.58	1.46	1.24	1.13	1.07	0.90
180.0	1.97	1.86	1.69	1.58	1.41	1.29	1.24	1.01	1.01
225.0	1.63	1.58	1.46	1.35	1.24	1.13	1.01	1.01	0.90
270.0	1.80	1.58	1.46	1.35	1.24	1.18	1.07	0.96	0.96
315.0	1.63	1.46	1.35	1.13	1.13	1.01	0.90	0.84	0.73
360.0	1.69	1.58	1.41	1.29	1.18	1.07	0.96	0.90	0.90
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	0.73	0.68	0.68	0.62	0.51	0.51	0.45	0.39	0.34
45.0	0.96	0.84	0.79	0.73	0.68	0.68	0.51	0.45	0.45
90.0	0.68	0.68	0.62	0.56	0.51	0.39	0.39	0.34	0.28
135.0	0.84	0.79	0.73	0.68	0.56	0.51	0.51	0.39	0.39
180.0	0.90	0.90	0.79	0.73	0.62	0.62	0.56	0.56	0.45
225.0	0.79	0.73	0.68	0.56	0.56	0.51	0.45	0.39	0.34
270.0	0.79	0.73	0.68	0.56	0.56	0.45	0.39	0.39	0.34
315.0	0.68	0.62	0.56	0.56	0.45	0.39	0.39	0.28	0.23
360.0	0.73	0.68	0.68	0.62	0.51	0.51	0.45	0.39	0.34
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.28	0.28	0.23	0.23	0.17	0.23	0.23	0.23	0.34
45.0	0.39	0.34	0.28	0.28	0.23	0.17	0.11	0.17	0.17
90.0	0.28	0.17	0.17	0.17	0.17	0.17	0.17	0.11	0.06
135.0	0.34	0.28	0.28	0.23	0.17	0.11	0.11	0.11	0.06
180.0	0.39	0.34	0.34	0.28	0.17	0.23	0.23	0.17	0.17
225.0	0.34	0.23	0.23	0.17	0.23	0.17	0.17	0.17	0.17
270.0	0.34	0.23	0.17	0.17	0.17	0.11	0.06	0.06	0.00
315.0	0.17	0.17	0.17	0.11	0.17	0.11	0.06	0.06	0.11
360.0	0.28	0.28	0.23	0.23	0.17	0.23	0.23	0.23	0.34

Intensity data(cd)

C/ γ (°)	90.0
0.0	0.34
45.0	0.17
90.0	0.06
135.0	0.11
180.0	0.17
225.0	0.11
270.0	0.06
315.0	0.06
360.0	0.34