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Nata

Client: NT

LumCAT: 3-2884-LM2

Luminaire: 92.70.121.00 LED HOLDER

Report No: 20260106-B002

Ballast type: DC

Test No: 20260106-C002

Voltage(V): 36.970

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.718

Lamp flux(lm): 3692.9

Power (W): 26.500

Number of Lamps: 1

PF: 0.000

Length(mm): 92

Width(mm): 92

Phm Type: C

Height(mm): 49

Photometric Results

Lumens(lm): 3569.70, Efficiency(%): 96.66% , Luminous Efficacy(lm/W): 134.71

Central intensity(cd): 5523.182, Maximum intensity(cd): 5523.182

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=45.2

[C90/270]Total=45.2

Field angle(10%Imax): [C0/180]Total=79.0

[C90/270]Total=79.0

Maximum s/h(1/2): C0_180=0.70 C90_270=0.70

Maximum s/h(1/4): C0_180=0.74 C90_270=0.74

Up flux rate of lamp(%): 0.00%

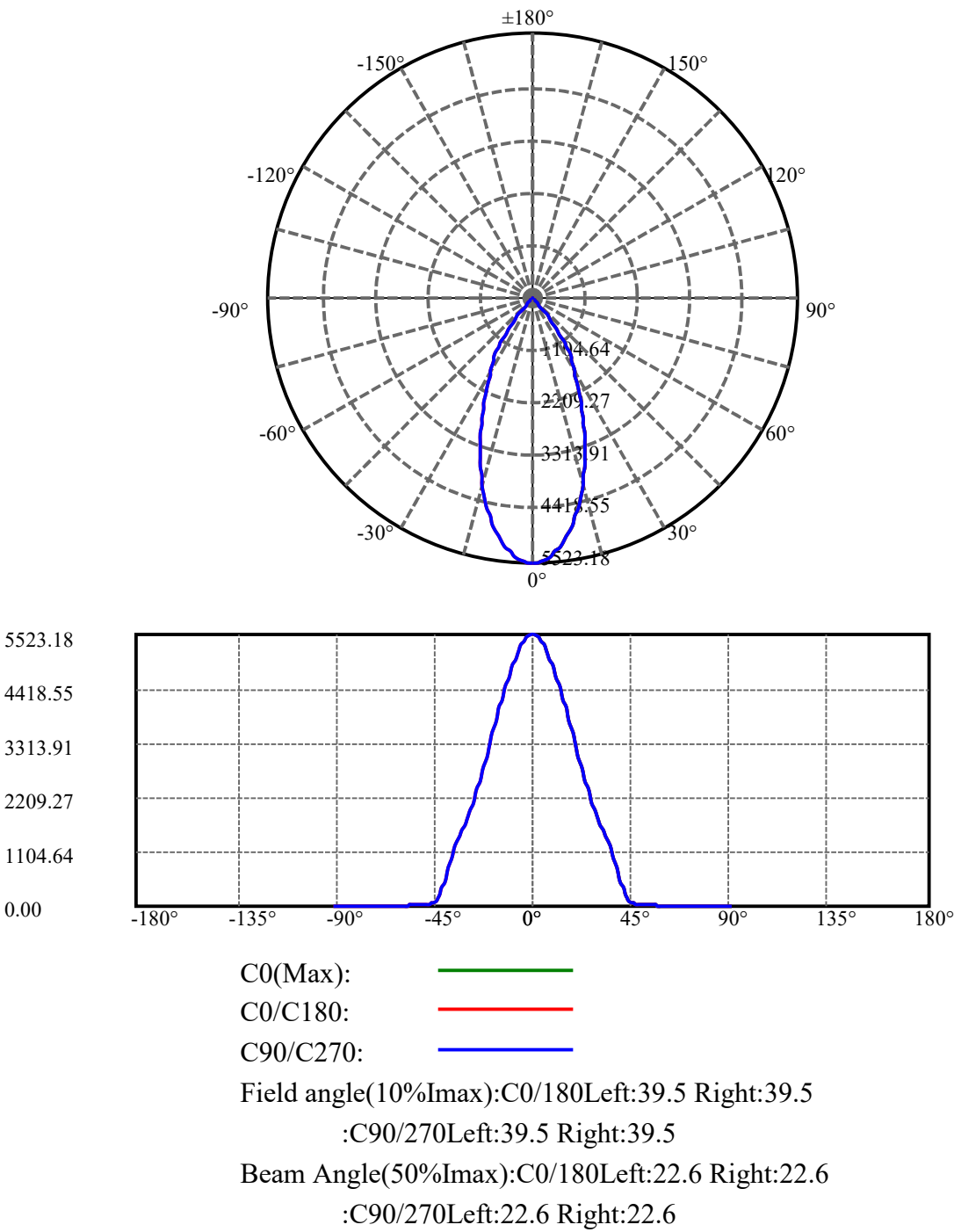
Down flux rate of lamp(%): 96.66%

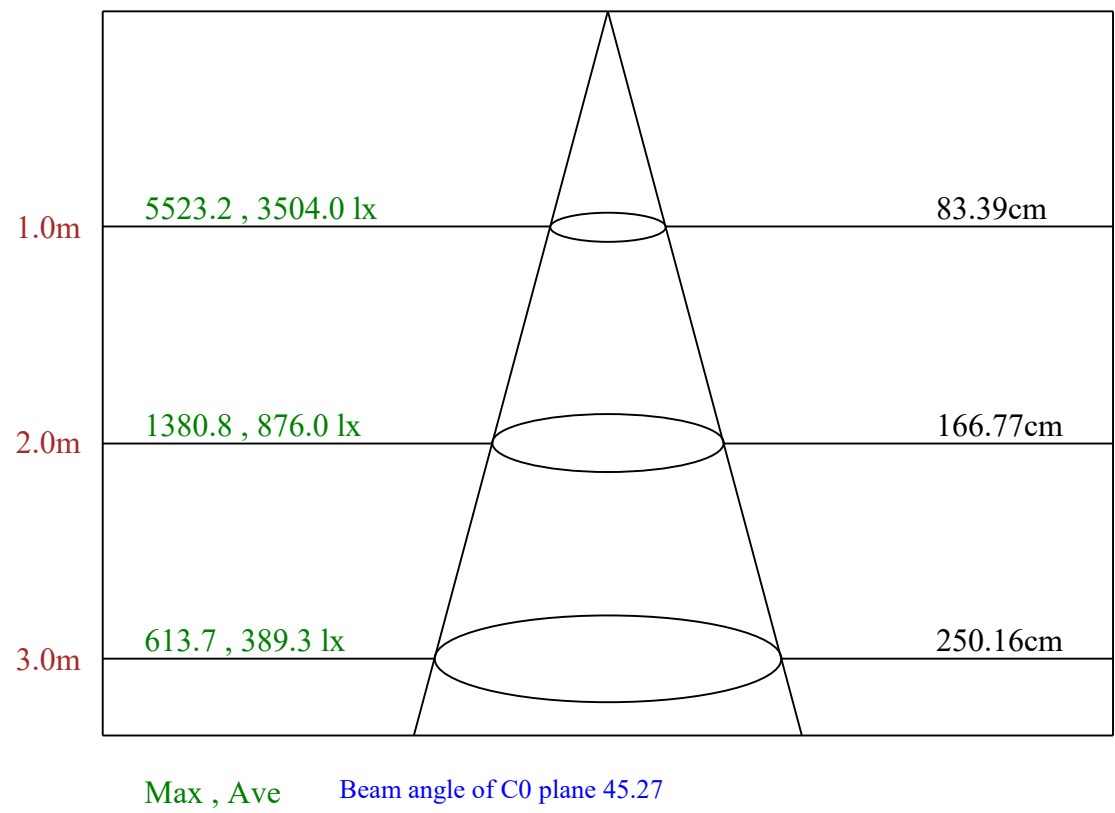
Up flux rate of LUM(%): - -

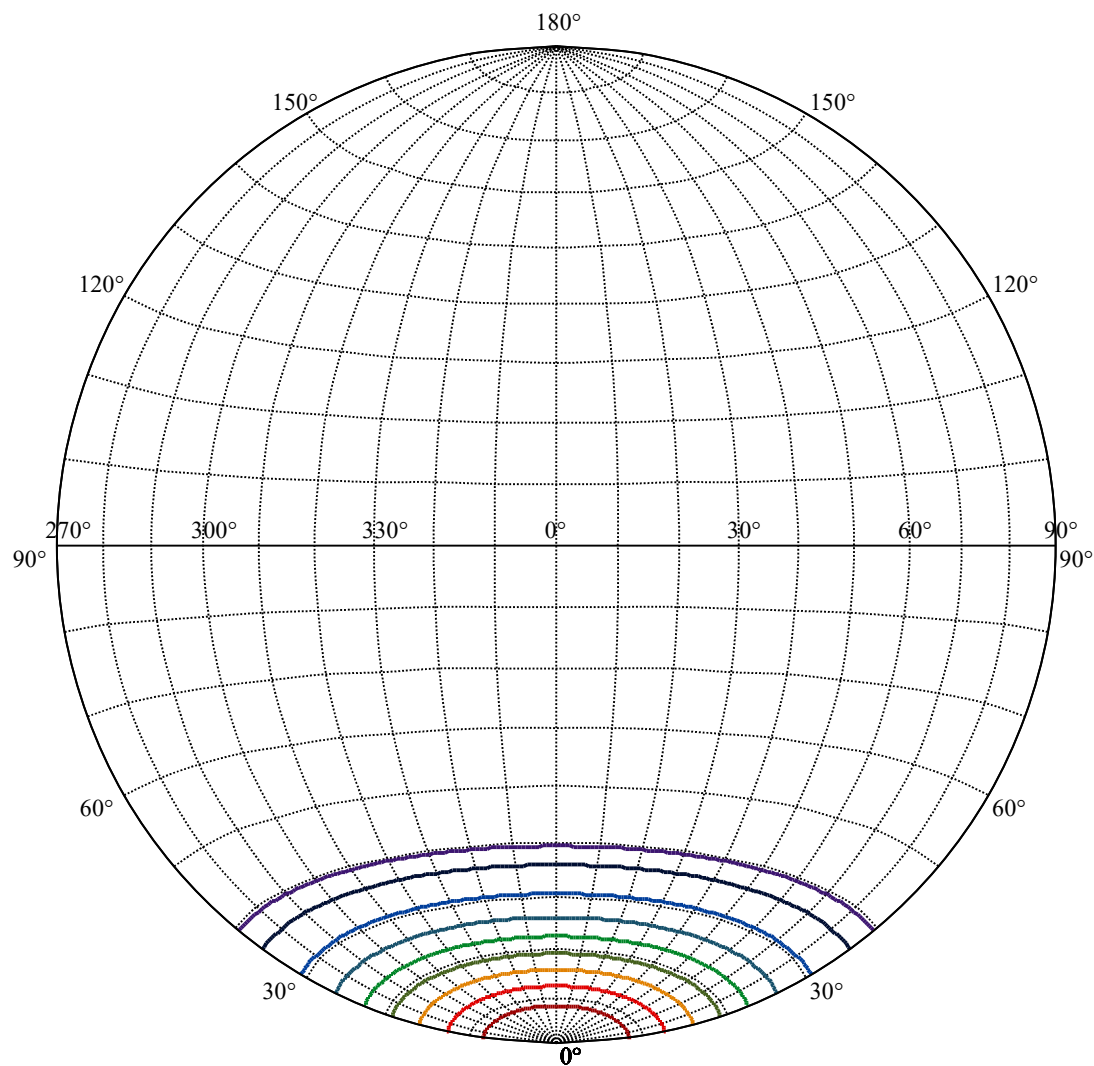
Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.176%





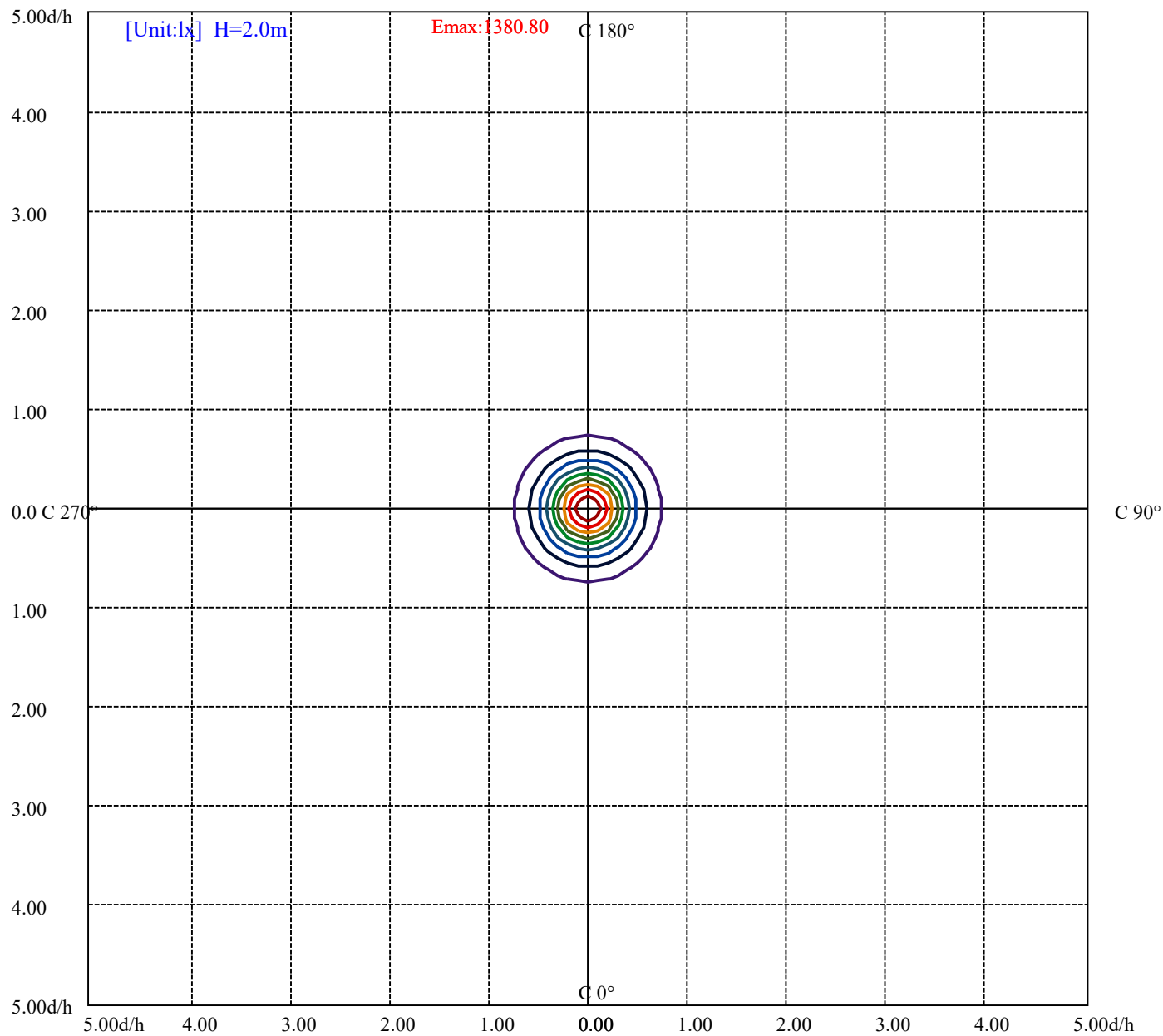


House

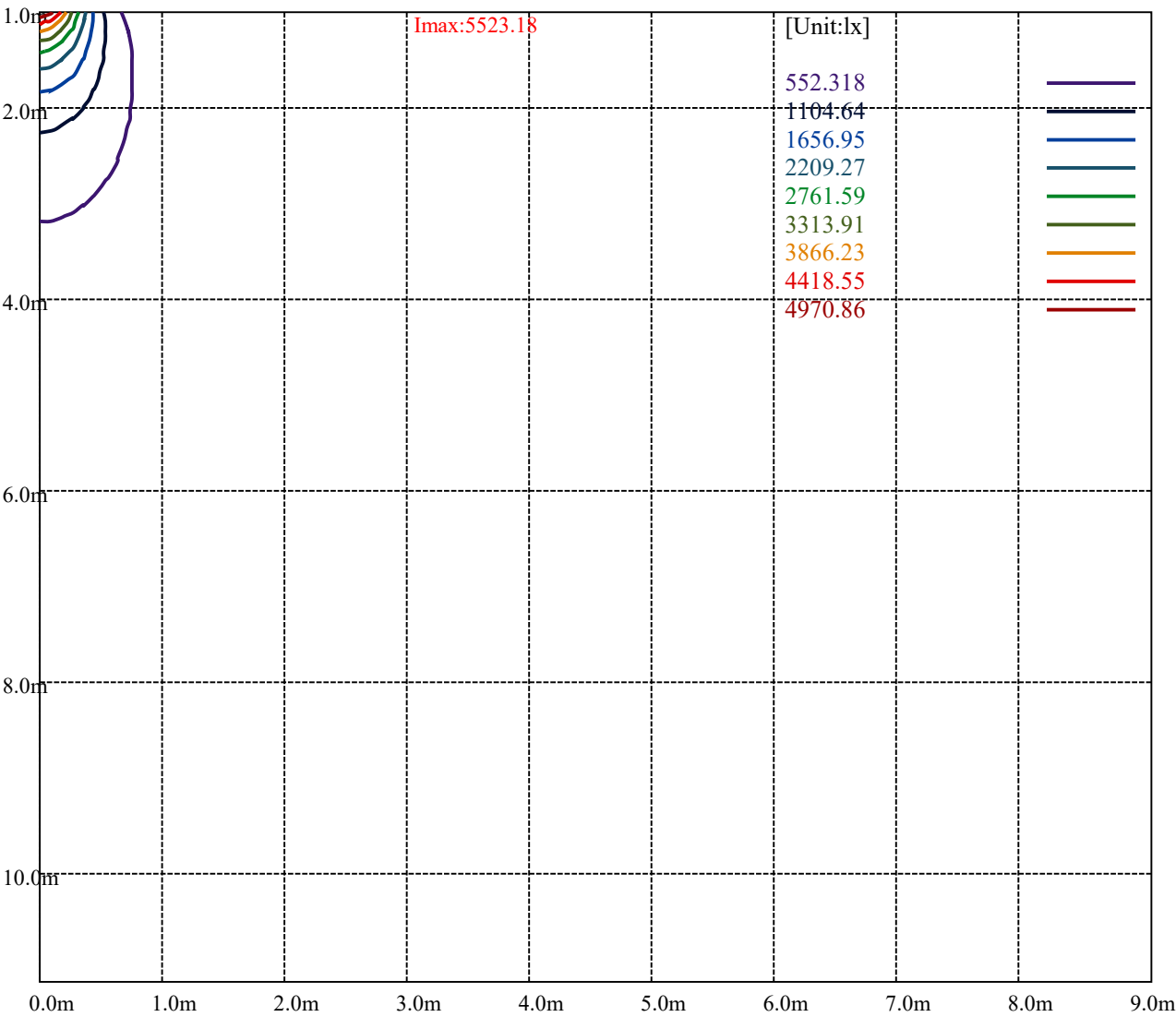
[Unit:cd]

Road

Imax:5523.18	
(10%Imax) 552.318	
(20%Imax) 1104.64	
(30%Imax) 1656.95	
(40%Imax) 2209.27	
(50%Imax) 2761.59	
(60%Imax) 3313.91	
(70%Imax) 3866.23	
(80%Imax) 4418.55	
(90%Imax) 4970.86	



(10%Emax)	138.0795	—
(20%Emax)	276.16	—
(30%Emax)	414.2375	—
(40%Emax)	552.3175	—
(50%Emax)	690.3975	—
(60%Emax)	828.4775	—
(70%Emax)	966.5575	—
(80%Emax)	1104.635	—
(90%Emax)	1242.715	—



Luminance Table

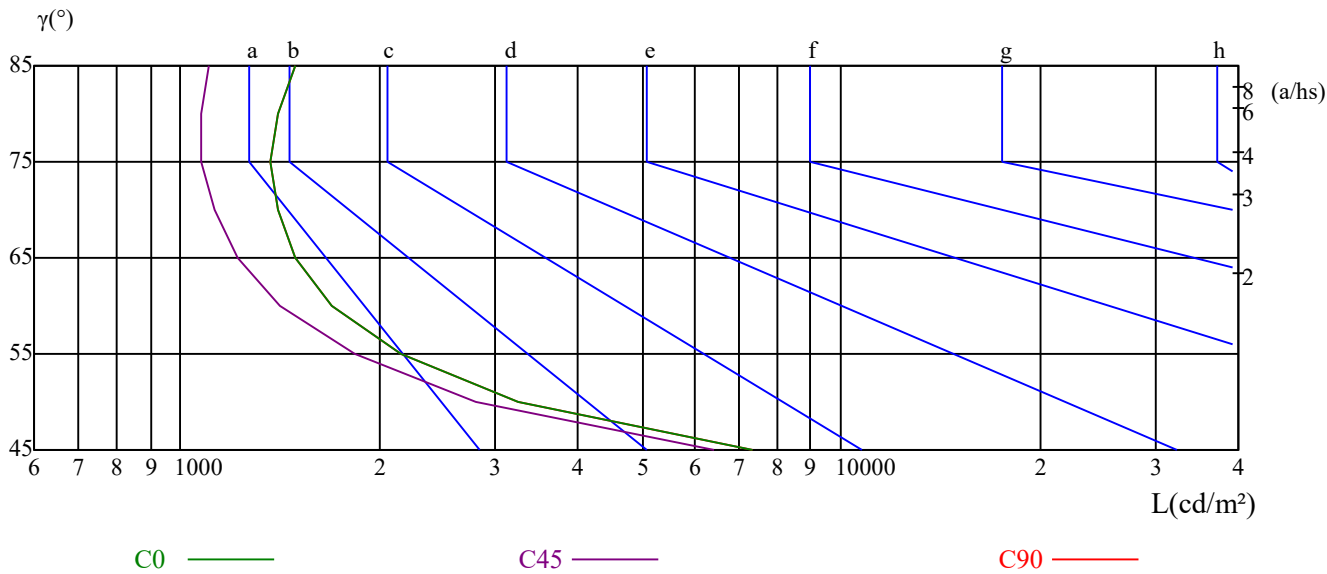
γ	45	50	55	60	65	70	75	80	85
C0	7351	3251	2161	1694	1491	1400	1371	1405	1496
C45	6426	2801	1833	1413	1221	1124	1075	1072	1103
C90	7351	3251	2161	1694	1491	1400	1371	1405	1496

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3193	3193	3193	4096	4096	4096	10602	10602	10602

Glare Table

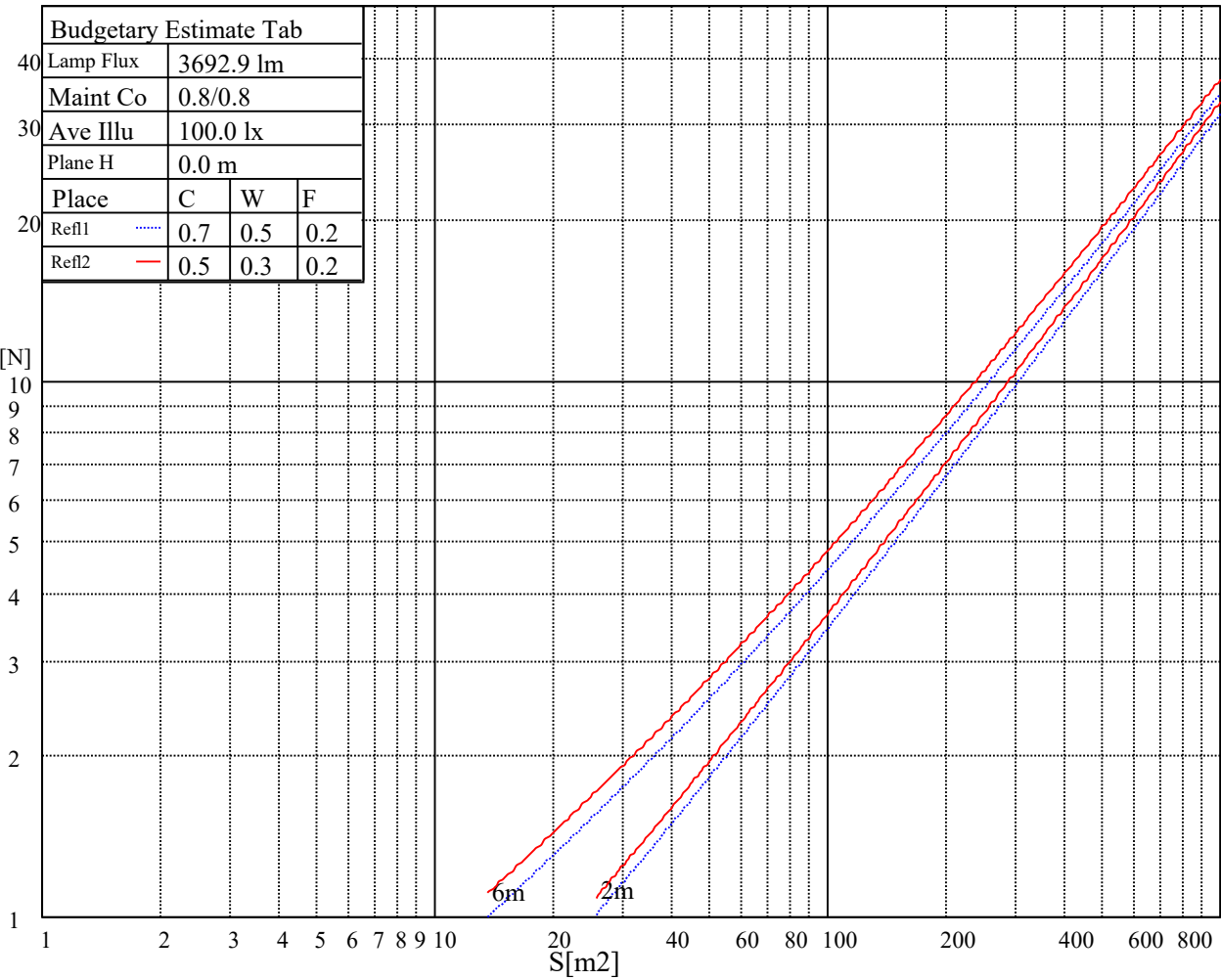
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

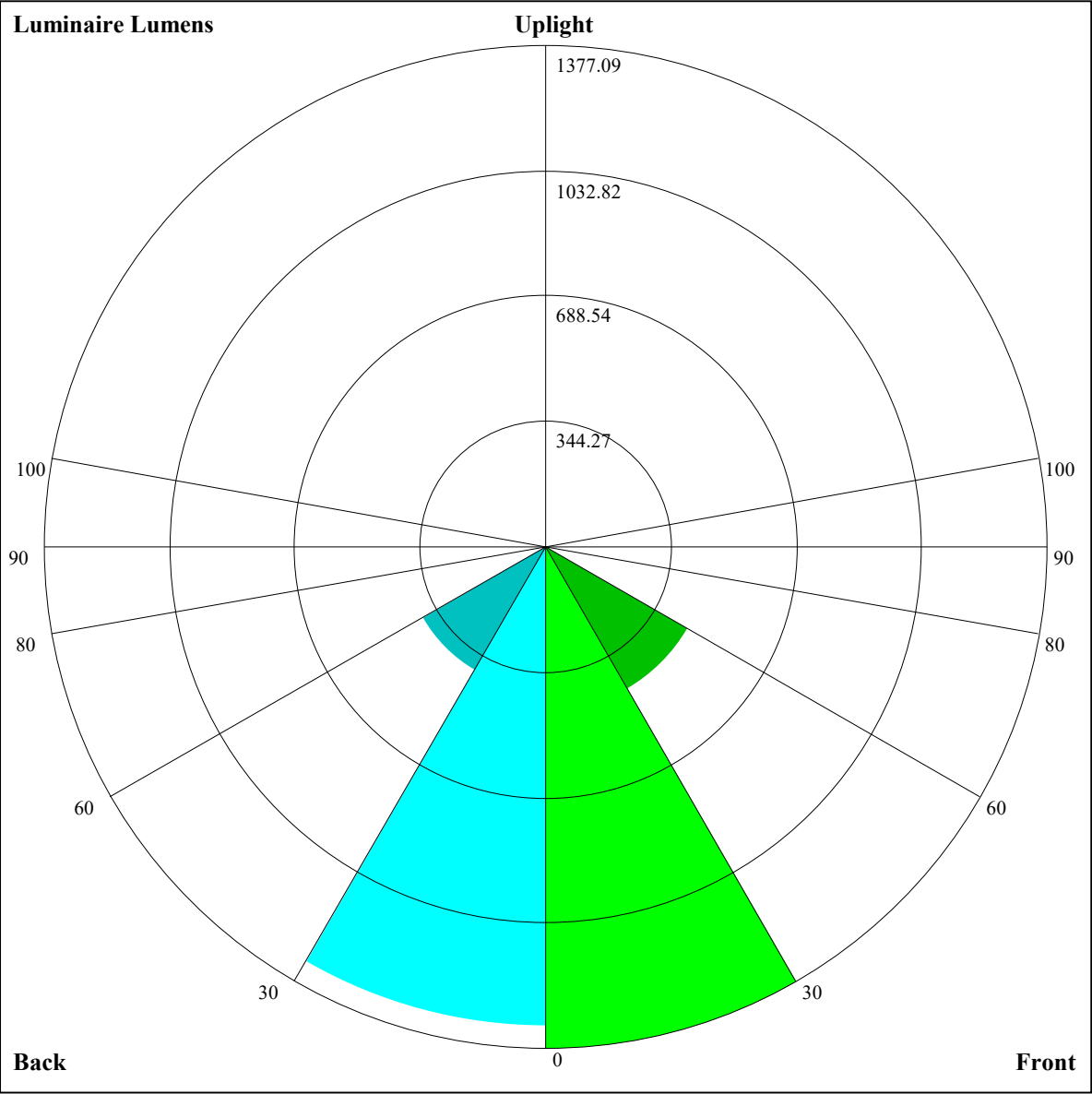


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	20.53	21.46	20.89	21.77	22.09	19.84	20.77	20.20	21.08	21.40
	3H	20.32	21.15	20.71	21.49	21.84	19.64	20.47	20.02	20.81	21.15
	4H	20.22	20.99	20.62	21.35	21.71	19.54	20.31	19.94	20.66	21.03
	6H	20.14	20.84	20.56	21.22	21.62	19.46	20.16	19.88	20.54	20.94
	8H	20.08	20.74	20.50	21.13	21.54	19.40	20.06	19.82	20.45	20.86
	12H	20.02	20.65	20.44	21.04	21.46	19.34	19.97	19.76	20.36	20.78
4H	2H	20.21	20.97	20.61	21.33	21.70	19.52	20.29	19.92	20.64	21.01
	3H	19.97	20.61	20.39	21.01	21.42	19.29	19.93	19.71	20.32	20.74
	4H	19.90	20.45	20.34	20.88	21.33	19.22	19.78	19.66	20.20	20.65
	6H	19.78	20.27	20.25	20.72	21.17	19.10	19.59	19.58	20.04	20.50
	8H	19.73	20.19	20.22	20.64	21.12	19.06	19.51	19.55	19.97	20.45
	12H	19.70	20.12	20.19	20.57	21.09	19.03	19.45	19.52	19.90	20.42
8H	4H	19.70	20.15	20.19	20.61	21.09	19.02	19.47	19.51	19.93	20.41
	6H	19.57	19.94	20.08	20.42	20.93	18.90	19.27	19.41	19.75	20.26
	8H	19.58	19.89	20.12	20.41	20.91	18.91	19.22	19.45	19.74	20.24
	12H	19.56	19.80	20.11	20.31	20.84	18.90	19.13	19.44	19.65	20.17
12H	4H	19.65	20.06	20.14	20.52	21.04	18.97	19.39	19.46	19.84	20.36
	6H	19.56	19.87	20.09	20.39	20.89	18.89	19.20	19.42	19.72	20.22
	8H	19.53	19.77	20.08	20.29	20.81	18.87	19.10	19.41	19.62	20.14
Variation with the observer position at spacings:											
S = 1.0H		5.2/-12.9					5.2/-12.9				
S = 1.5H		8.0/-11.7					8.0/-11.7				
S = 2.0H		9.9/-10.7					9.9/-10.7				
Standard tables:		BK0					BK0				
Uncorrected UGR		-0.2					-0.2				

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	1.03	1.03	1.03	0.99	0.99	0.99	0.97
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91
2	1.00	0.97	0.93	0.99	0.95	0.92	0.96	0.93	0.90	0.93	0.90	0.88	0.90	0.88	0.87	0.85
3	0.94	0.89	0.86	0.93	0.88	0.85	0.90	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.80
4	0.88	0.83	0.79	0.87	0.83	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.75
5	0.83	0.78	0.74	0.82	0.77	0.74	0.81	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.72	0.70
6	0.78	0.73	0.69	0.78	0.73	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.66
7	0.74	0.69	0.65	0.74	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.62
8	0.70	0.65	0.61	0.70	0.64	0.61	0.69	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.59
9	0.67	0.61	0.58	0.66	0.61	0.57	0.65	0.61	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.56
10	0.63	0.58	0.55	0.63	0.58	0.54	0.62	0.58	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.53



Luminaire Lumens:

FL=1377.09,FM=450.1,FH=10.54,FVH=4.23

BL=1314.59,BM=391.9,BH=10.48,BVH=4.17

UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

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C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	5522.00	5534.05	5535.78	5508.22	5477.22	5409.18	5339.43	5267.95	5162.88
22.5	5485.83	5515.97	5534.05	5533.19	5515.97	5473.77	5430.71	5348.90	5275.70
45.0	5521.14	5531.47	5518.55	5491.86	5444.49	5392.82	5330.82	5236.08	5155.13
67.5	5512.52	5522.86	5528.03	5508.22	5475.49	5432.43	5356.65	5280.87	5182.69
90.0	5529.75	5515.11	5477.22	5428.13	5366.98	5299.81	5195.61	5103.46	5002.70
112.5	5532.33	5536.64	5521.14	5474.63	5425.55	5361.82	5282.59	5174.94	5073.32
135.0	5535.78	5507.36	5456.55	5398.85	5321.34	5240.39	5118.96	5013.90	4907.11
157.5	5546.11	5540.08	5511.66	5459.99	5404.02	5329.95	5242.97	5126.71	5029.40
180.0	5522.00	5489.27	5450.52	5396.27	5311.01	5224.89	5137.05	5013.04	4902.81
202.5	5485.83	5447.07	5384.21	5308.42	5234.36	5143.08	5022.51	4920.89	4803.77
225.0	5521.14	5498.75	5466.02	5410.04	5344.59	5276.56	5193.03	5075.04	4970.84
247.5	5512.52	5477.22	5417.79	5361.82	5289.48	5207.67	5090.54	4988.93	4873.53
270.0	5529.75	5528.03	5501.33	5454.83	5390.24	5322.20	5236.95	5123.27	5024.23
292.5	5532.33	5515.11	5463.44	5407.46	5339.43	5243.84	5145.66	5044.04	4901.95
315.0	5535.78	5543.53	5525.44	5489.27	5441.05	5360.96	5280.01	5164.61	5069.02
337.5	5546.11	5530.61	5501.33	5453.10	5372.15	5295.51	5212.83	5087.96	4981.17
360.0	5522.00	5534.05	5535.78	5508.22	5477.22	5409.18	5339.43	5267.95	5162.88
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5064.71	4928.64	4720.24	4686.65	4552.30	4374.04	4224.19	4065.74	3902.97
22.5	5191.30	5110.35	5009.59	4876.97	4757.27	4628.09	4493.74	4312.90	4161.33
45.0	5058.68	4955.34	4814.10	4687.51	4557.47	4419.68	4233.67	4082.10	3922.78
67.5	5087.10	4989.79	4885.58	4735.74	4598.81	4456.71	4306.87	4115.68	3956.37
90.0	4894.19	4753.82	4624.64	4480.83	4328.40	4138.08	3981.34	3779.82	3614.48
112.5	4961.37	4821.86	4698.71	4541.11	4409.35	4273.28	4121.71	3935.70	3777.24
135.0	4793.44	4635.84	4507.52	4371.46	4191.47	4046.79	3859.05	3704.90	3550.75
157.5	4916.59	4801.19	4650.48	4520.44	4381.79	4207.83	4056.26	3865.94	3703.18
180.0	4785.69	4630.67	4498.05	4326.67	4182.00	4031.29	3881.44	3685.09	3523.19
202.5	4679.76	4516.14	4380.93	4237.11	4053.68	3904.69	3712.65	3555.05	3400.04
225.0	4858.89	4740.90	4585.89	4445.52	4306.01	4119.99	3968.42	3774.66	3611.89
247.5	4719.37	4596.23	4414.52	4267.25	4119.13	3915.03	3754.85	3590.36	3427.60
270.0	4907.97	4791.71	4634.12	4497.19	4354.23	4206.11	4012.34	3850.44	3651.51
292.5	4783.10	4628.95	4497.19	4355.95	4210.41	4021.82	3865.94	3707.48	3543.86
315.0	4965.67	4849.41	4690.96	4560.06	4420.54	4276.73	4126.02	3929.67	3769.49
337.5	4864.05	4709.90	4579.00	4440.35	4295.67	4102.77	3945.17	3782.41	3617.06
360.0	5064.71	4928.64	4720.24	4686.65	4552.30	4374.04	4224.19	4065.74	3902.97
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3705.76	3543.00	3381.09	3226.94	3032.31	2878.16	2691.29	2549.19	2409.68
22.5	3963.25	3803.94	3640.31	3438.79	3280.34	3127.91	2941.03	2794.63	2653.39
45.0	3728.15	3566.25	3372.48	3218.33	3070.21	2886.77	2748.99	2613.78	2481.16
67.5	3792.74	3632.56	3429.32	3266.56	3075.37	2922.94	2781.71	2609.47	2478.57
90.0	3461.18	3262.25	3103.79	2953.09	2807.55	2629.28	2488.05	2356.29	2230.55
112.5	3620.50	3468.94	3274.31	3131.35	2983.23	2834.24	2653.39	2510.44	2329.59
135.0	3396.60	3199.38	3044.37	2892.80	2740.37	2553.50	2403.65	2263.28	2128.07
157.5	3542.14	3384.54	3189.91	3035.76	2886.77	2737.79	2558.66	2414.85	2275.33
180.0	3359.56	3205.41	3053.84	2866.97	2719.71	2581.92	2410.54	2278.78	2124.63
202.5	3244.17	3053.84	2901.42	2756.74	2618.95	2451.88	2323.56	2197.83	2082.43
225.0	3455.16	3263.97	3114.99	2972.03	2827.35	2686.12	2526.80	2400.21	2272.75
247.5	3264.83	3059.87	2905.72	2753.29	2611.20	2432.07	2298.59	2141.85	2021.28
270.0	3487.88	3324.26	3126.18	2972.89	2823.91	2675.78	2494.94	2353.70	2223.66
292.5	3343.20	3183.02	3023.70	2865.25	2669.76	2517.33	2331.31	2187.49	2051.43
315.0	3599.84	3397.46	3237.28	3034.90	2871.27	2711.95	2516.47	2361.45	2215.05
337.5	3406.07	3245.89	3043.51	2885.05	2729.18	2542.30	2394.18	2250.36	2114.29
360.0	3705.76	3543.00	3381.09	3226.94	3032.31	2878.16	2691.29	2549.19	2409.68

Intensity data(cd)

Appendix Page: 13 Total:15

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2240.03	2110.85	1992.00	1696.10	1696.10	1650.46	1561.50	1457.98	1382.37
22.5	2513.88	2343.37	2215.91	2096.21	1984.25	1849.91	1752.60	1663.89	1576.05
45.0	2321.84	2197.83	2085.01	1974.78	1705.06	1705.06	1658.81	1572.26	1467.29
67.5	2345.95	2182.33	2061.76	1946.36	1839.58	1715.56	1624.28	1539.02	1456.35
90.0	2074.68	1952.39	1709.71	1709.71	1615.41	1532.99	1428.70	1356.62	1261.81
112.5	2187.49	2053.15	1898.14	1784.46	1680.26	1585.53	1475.29	1396.07	1324.59
135.0	1965.31	1699.72	1699.72	1601.11	1512.41	1407.17	1333.54	1259.05	1122.29
157.5	2106.54	1979.09	1860.24	1725.90	1628.59	1539.88	1432.24	1360.76	1281.53
180.0	2009.23	1899.86	1770.68	1675.09	1581.22	1498.55	1402.95	1302.20	1172.16
202.5	1944.64	1716.34	1716.34	1625.14	1540.66	1439.73	1329.75	1189.47	993.55
225.0	2130.66	2024.73	1917.08	1787.90	1697.48	1591.55	1509.74	1396.93	1249.66
247.5	1714.53	1714.53	1666.65	1576.05	1465.56	1382.72	1281.61	1155.19	981.06
270.0	2093.62	1942.92	1830.96	1721.59	1607.92	1522.66	1447.74	1342.67	1216.94
292.5	1711.86	1711.86	1659.50	1563.65	1452.99	1377.12	1306.07	1213.15	1054.78
315.0	2072.96	1909.33	1788.77	1675.95	1573.47	1463.24	1384.87	1318.56	1220.38
337.5	1867.99	1716.60	1716.60	1616.96	1507.16	1424.66	1353.87	1283.94	1159.93
360.0	2240.03	2110.85	1992.00	1696.10	1696.10	1650.46	1561.50	1457.98	1382.37
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1283.59	1153.56	964.70	796.34	630.47	431.54	292.20	183.78	101.28
22.5	1471.85	1371.95	1204.02	1037.81	863.85	655.45	495.27	458.24	458.24
45.0	1345.43	1162.60	998.37	829.84	624.10	470.64	333.36	226.32	140.29
67.5	1346.12	1224.69	1085.18	889.69	724.34	534.88	462.54	462.54	183.09
90.0	1097.15	946.44	790.39	635.47	452.55	322.77	214.18	131.76	83.02
112.5	1231.58	1073.12	918.11	751.04	555.55	446.18	446.18	152.60	90.34
135.0	987.09	834.40	673.10	471.93	332.68	216.33	131.76	78.28	54.77
157.5	1170.44	1000.78	845.77	667.50	501.30	462.54	299.69	122.12	68.89
180.0	1023.17	816.49	648.56	486.66	447.04	277.47	107.91	74.66	61.14
202.5	828.20	658.20	501.73	320.70	202.38	126.94	95.85	79.83	61.49
225.0	1055.90	890.55	718.31	558.99	441.87	441.87	147.61	110.75	88.36
247.5	831.21	676.72	528.59	358.77	239.32	151.22	102.91	85.95	70.27
270.0	1082.59	896.58	737.26	577.08	465.13	465.13	144.85	91.97	73.89
292.5	913.03	763.70	567.69	417.16	278.33	140.29	80.26	59.25	45.73
315.0	1110.15	979.25	794.10	635.64	474.60	435.85	264.30	92.15	59.25
337.5	1032.65	846.72	686.19	519.21	331.13	207.03	119.19	70.88	52.36
360.0	1283.59	1153.56	964.70	796.34	630.47	431.54	292.20	183.78	101.28
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	76.13	62.87	47.19	37.72	32.38	28.59	25.32	23.17	21.27
22.5	133.48	102.48	85.77	69.76	54.25	46.42	40.65	35.22	31.61
45.0	112.90	94.47	77.51	61.32	52.96	46.50	40.05	35.83	32.29
67.5	118.33	99.12	82.67	68.29	55.72	48.92	43.15	38.06	32.64
90.0	69.58	55.98	42.63	36.34	32.12	28.16	25.75	23.34	21.62
112.5	63.73	48.92	38.67	30.83	26.01	23.51	21.70	20.15	18.60
135.0	41.68	32.81	26.87	24.03	21.70	20.32	19.20	18.00	17.05
157.5	55.63	43.92	32.55	27.21	24.37	21.96	20.41	19.12	18.00
180.0	48.83	37.55	32.90	29.45	26.87	24.11	22.30	20.75	19.29
202.5	50.38	42.11	37.46	33.76	29.97	27.39	25.15	22.65	21.01
225.0	72.25	59.59	49.43	43.83	38.15	34.36	31.26	28.51	25.49
247.5	55.03	47.45	41.60	35.65	31.61	28.16	25.15	22.13	20.32
270.0	57.18	45.73	37.63	32.12	28.68	25.84	22.91	20.84	18.77
292.5	35.91	28.76	25.06	22.30	20.75	19.38	18.26	16.97	16.02
315.0	46.16	36.43	28.59	23.94	21.10	19.72	18.52	17.22	16.36
337.5	41.68	32.64	26.27	22.56	20.75	19.29	17.74	16.62	15.67
360.0	76.13	62.87	47.19	37.72	32.38	28.59	25.32	23.17	21.27

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.63	17.91	16.71	15.42	14.64	13.95	13.18	12.66	12.23
22.5	27.90	25.32	23.08	20.67	19.12	17.74	16.53	15.50	14.47
45.0	28.42	25.75	23.42	21.10	19.38	18.00	16.88	15.50	14.55
67.5	28.85	25.58	22.39	20.58	18.86	17.48	16.45	15.50	14.47
90.0	20.24	18.95	17.74	16.88	16.10	15.33	14.64	14.04	13.52
112.5	17.57	16.62	15.85	14.98	14.38	13.69	13.18	12.83	12.23
135.0	16.36	15.59	14.90	14.38	13.87	13.43	12.92	12.57	12.14
157.5	16.79	16.02	15.24	14.38	13.95	13.43	13.00	12.49	12.14
180.0	17.74	16.71	15.85	14.98	14.38	13.78	13.26	12.83	12.31
202.5	19.46	18.17	16.79	15.93	15.16	14.47	13.61	13.09	12.57
225.0	23.42	21.62	20.07	18.34	17.22	16.28	15.33	14.38	13.69
247.5	18.86	17.65	16.36	15.42	14.73	13.87	13.26	12.57	12.06
270.0	17.48	16.45	15.59	14.64	13.95	13.43	12.92	12.49	11.97
292.5	15.33	14.47	13.87	13.35	12.75	12.31	11.88	11.54	11.11
315.0	15.42	14.73	14.04	13.43	12.92	12.49	12.06	11.63	11.37
337.5	14.73	14.04	13.26	12.75	12.31	11.88	11.45	11.20	10.94
360.0	19.63	17.91	16.71	15.42	14.64	13.95	13.18	12.66	12.23
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.80	11.45	11.20	10.85	10.59	10.33	10.16	9.99	9.82
22.5	13.78	13.09	12.57	11.97	11.54	11.02	10.76	10.51	10.16
45.0	13.87	13.18	12.49	11.88	11.45	10.94	10.68	10.25	9.99
67.5	13.78	13.18	12.57	11.97	11.54	11.20	10.76	10.42	10.25
90.0	13.00	12.49	12.14	11.63	11.37	11.02	10.59	10.33	10.08
112.5	11.88	11.63	11.37	11.02	10.76	10.51	10.33	10.08	9.90
135.0	11.80	11.54	11.11	10.85	10.68	10.33	10.08	9.90	9.65
157.5	11.80	11.54	11.20	10.85	10.68	10.51	10.25	10.08	9.82
180.0	12.06	11.80	11.45	11.20	10.94	10.76	10.51	10.25	10.08
202.5	12.23	11.88	11.54	11.20	10.94	10.59	10.25	9.99	9.73
225.0	13.00	12.57	12.14	11.63	11.28	10.94	10.51	10.25	9.90
247.5	11.71	11.37	11.02	10.76	10.42	10.25	9.99	9.73	9.47
270.0	11.54	11.11	10.85	10.59	10.33	10.08	9.90	9.73	9.47
292.5	10.94	10.51	10.33	10.08	9.82	9.65	9.47	9.30	9.21
315.0	11.02	10.76	10.59	10.25	10.08	9.90	9.73	9.56	9.39
337.5	10.68	10.42	10.16	9.99	9.82	9.65	9.47	9.39	9.21
360.0	11.80	11.45	11.20	10.85	10.59	10.33	10.16	9.99	9.82
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.65	9.56	9.47	9.30	9.13	8.96	8.87	8.78	8.61
22.5	9.90	9.73	9.56	9.39	9.21	9.04	8.87	8.78	8.61
45.0	9.73	9.47	9.39	9.13	8.96	8.78	8.61	8.53	8.44
67.5	9.90	9.73	9.47	9.21	9.04	8.87	8.61	8.53	8.44
90.0	9.90	9.47	9.30	9.13	8.87	8.70	8.53	8.44	8.27
112.5	9.73	9.47	9.21	9.13	8.96	8.78	8.53	8.44	8.35
135.0	9.47	9.30	9.13	8.96	8.70	8.53	8.44	8.27	8.18
157.5	9.65	9.47	9.21	9.04	8.87	8.70	8.53	8.44	8.35
180.0	9.82	9.56	9.30	9.13	8.78	8.70	8.61	8.53	8.35
202.5	9.56	9.21	8.96	8.78	8.61	8.44	8.35	8.27	8.10
225.0	9.65	9.39	9.13	8.87	8.70	8.44	8.35	8.18	8.10
247.5	9.30	8.96	8.70	8.53	8.44	8.27	8.18	8.10	8.01
270.0	9.39	9.21	8.96	8.78	8.61	8.53	8.35	8.35	8.27
292.5	9.04	8.96	8.70	8.61	8.53	8.35	8.27	8.27	8.18
315.0	9.30	9.13	8.96	8.78	8.70	8.61	8.44	8.35	8.35
337.5	9.13	8.96	8.87	8.78	8.61	8.53	8.35	8.35	8.27
360.0	9.65	9.56	9.47	9.30	9.13	8.96	8.87	8.78	8.61

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Intensity data(cd)										Appendix Page: 15 Total:15	
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	8.61	8.53	8.44	8.27	8.27	8.10	7.84	7.58	7.32		
22.5	8.44	8.44	8.35	8.27	8.18	8.10	8.01	7.58	7.23		
45.0	8.35	8.18	8.18	8.10	8.01	7.92	7.66	7.32	7.15		
67.5	8.35	8.18	8.10	8.01	7.92	7.75	7.58	7.41	7.15		
90.0	8.18	8.10	8.01	7.92	7.75	7.66	7.49	7.23	6.98		
112.5	8.27	8.10	8.01	8.01	7.84	7.84	7.66	7.49	7.23		
135.0	8.10	8.01	7.84	7.84	7.75	7.66	7.49	7.32	7.06		
157.5	8.18	8.10	8.01	7.84	7.84	7.75	7.58	7.58	7.32		
180.0	8.18	8.18	8.01	8.01	7.92	7.92	7.75	7.32	6.98		
202.5	8.01	7.92	7.92	7.92	7.84	7.58	7.23	6.89	6.89		
225.0	8.01	7.92	7.84	7.75	7.66	7.58	7.32	6.98	6.80		
247.5	7.92	7.84	7.66	7.58	7.41	7.23	6.98	6.80	6.80		
270.0	8.18	8.10	7.92	7.84	7.66	7.49	7.23	6.89	6.80		
292.5	8.10	8.01	7.92	7.75	7.58	7.41	7.15	6.89	6.80		
315.0	8.18	8.10	8.01	7.92	7.75	7.58	7.41	7.06	6.98		
337.5	8.18	8.01	7.92	7.84	7.75	7.58	7.23	6.98	6.80		
360.0	8.61	8.53	8.44	8.27	8.27	8.10	7.84	7.58	7.32		
C/ γ (°)	90.0										
0.0	7.15										
22.5	7.15										
45.0	6.98										
67.5	6.98										
90.0	6.80										
112.5	6.98										
135.0	6.89										
157.5	6.98										
180.0	6.98										
202.5	6.89										
225.0	6.80										
247.5	6.80										
270.0	6.80										
292.5	6.80										
315.0	6.89										
337.5	6.80										
360.0	7.15										