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Nata

Client: NT

LumCAT: 2-3085-LM

Luminaire: 92.70.121.00 LED HOLDER

Report No: 20251208-B005

Ballast type: DC

Test No: 20251208-C005

Voltage(V): 36.490

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.708

Lamp flux(lm): 3641.7

Power (W): 25.830

Number of Lamps: 1

PF: 0.000

Length(mm): 75

Width(mm): 75

Phm Type: C

Height(mm): 43

Photometric Results

Lumens(lm): 3490.83, Efficiency(%): 95.86% , Luminous Efficacy(lm/W): 135.15

Central intensity(cd): 7541.688, Maximum intensity(cd): 7541.688

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.0

[C90/270]Total=38.0

Field angle(10%Imax): [C0/180]Total=67.4

[C90/270]Total=67.4

Maximum s/h(1/2): C0_180=0.63 C90_270=0.63

Maximum s/h(1/4): C0_180=0.61 C90_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 95.86%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.133%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7541.690	0.000	0	0.00%	0.00%
1.0	7530.279	7.212	7.212	0.20%	0.21%
2.0	7502.183	21.576	28.788	0.59%	0.82%
3.0	7449.112	35.759	64.546	0.98%	1.85%
4.0	7389.368	49.669	114.215	1.36%	3.27%
5.0	7308.309	63.229	177.444	1.74%	5.08%
6.0	7219.930	76.350	253.794	2.10%	7.27%
7.0	7096.781	88.864	342.657	2.44%	9.82%
8.0	6958.130	100.588	443.246	2.76%	12.70%
9.0	6808.176	111.568	554.814	3.06%	15.89%
10.0	6620.976	121.529	676.343	3.34%	19.37%
11.0	6409.556	130.202	806.545	3.58%	23.10%
12.0	6165.087	137.459	944.004	3.77%	27.04%
13.0	5903.179	143.220	1087.223	3.93%	31.15%
14.0	5603.918	147.290	1234.513	4.04%	35.36%
15.0	5261.059	149.159	1383.673	4.10%	39.64%
16.0	4891.396	148.762	1532.434	4.08%	43.90%
17.0	4519.149	146.547	1678.982	4.02%	48.10%
18.0	4142.704	142.815	1821.797	3.92%	52.19%
19.0	3758.293	137.461	1959.258	3.77%	56.13%
20.0	3411.128	131.220	2090.478	3.60%	59.88%
21.0	3108.099	125.182	2215.661	3.44%	63.47%
22.0	2791.291	118.551	2334.212	3.26%	66.87%
23.0	2520.879	111.464	2445.675	3.06%	70.06%
24.0	2225.364	103.770	2549.445	2.85%	73.03%
25.0	2012.684	96.364	2645.809	2.65%	75.79%
26.0	1797.517	89.940	2735.749	2.47%	78.37%
27.0	1679.384	85.063	2820.812	2.34%	80.81%
28.0	1545.954	81.659	2902.471	2.24%	83.15%
29.0	1406.862	77.254	2979.725	2.12%	85.36%
30.0	1281.754	72.592	3052.317	1.99%	87.44%
31.0	1134.147	67.231	3119.548	1.85%	89.36%
32.0	991.029	60.884	3180.432	1.67%	91.11%
33.0	848.299	54.187	3234.619	1.49%	92.66%
34.0	707.710	47.089	3281.709	1.29%	94.01%
35.0	570.965	39.711	3321.42	1.09%	95.15%
36.0	447.191	32.418	3353.838	0.89%	96.08%
37.0	371.375	26.697	3380.535	0.73%	96.84%

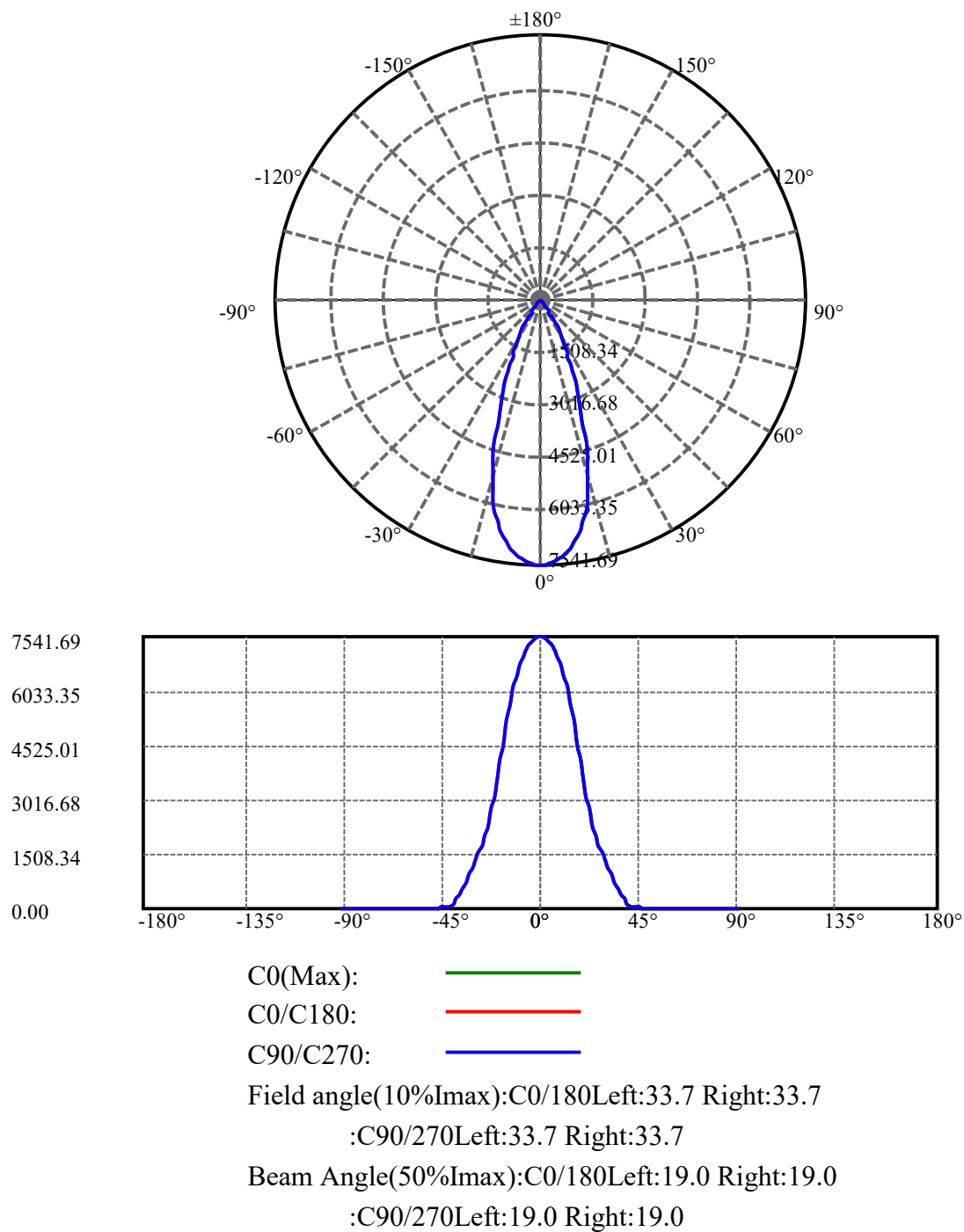
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	260.261	21.083	3401.618	0.58%	97.44%
39.0	146.466	13.883	3415.501	0.38%	97.84%
40.0	82.405	7.982	3423.483	0.22%	98.07%
41.0	54.513	4.876	3428.359	0.13%	98.21%
42.0	42.553	3.527	3431.885	0.10%	98.31%
43.0	35.416	2.888	3434.773	0.08%	98.39%
44.0	29.334	2.444	3437.217	0.07%	98.46%
45.0	25.093	2.092	3439.309	0.06%	98.52%
46.0	22.423	1.858	3441.167	0.05%	98.58%
47.0	21.045	1.729	3442.896	0.05%	98.63%
48.0	19.592	1.643	3444.539	0.05%	98.67%
49.0	18.559	1.567	3446.105	0.04%	98.72%
50.0	17.687	1.511	3447.617	0.04%	98.76%
51.0	16.901	1.463	3449.08	0.04%	98.80%
52.0	16.050	1.414	3450.494	0.04%	98.84%
53.0	15.297	1.364	3451.858	0.04%	98.88%
54.0	14.759	1.325	3453.182	0.04%	98.92%
55.0	14.199	1.293	3454.475	0.04%	98.96%
56.0	13.736	1.262	3455.737	0.03%	98.99%
57.0	13.327	1.237	3456.974	0.03%	99.03%
58.0	12.972	1.216	3458.191	0.03%	99.06%
59.0	12.638	1.197	3459.388	0.03%	99.10%
60.0	12.390	1.182	3460.57	0.03%	99.13%
61.0	12.143	1.171	3461.741	0.03%	99.17%
62.0	11.874	1.157	3462.898	0.03%	99.20%
63.0	11.680	1.146	3464.044	0.03%	99.23%
64.0	11.454	1.135	3465.179	0.03%	99.27%
65.0	11.238	1.123	3466.302	0.03%	99.30%
66.0	11.077	1.113	3467.415	0.03%	99.33%
67.0	10.862	1.103	3468.519	0.03%	99.36%
68.0	10.657	1.090	3469.609	0.03%	99.39%
69.0	10.474	1.078	3470.687	0.03%	99.42%
70.0	10.270	1.065	3471.752	0.03%	99.45%
71.0	10.033	1.049	3472.801	0.03%	99.48%
72.0	9.839	1.033	3473.835	0.03%	99.51%
73.0	9.634	1.018	3474.853	0.03%	99.54%
74.0	9.505	1.006	3475.859	0.03%	99.57%
75.0	9.365	0.997	3476.856	0.03%	99.60%

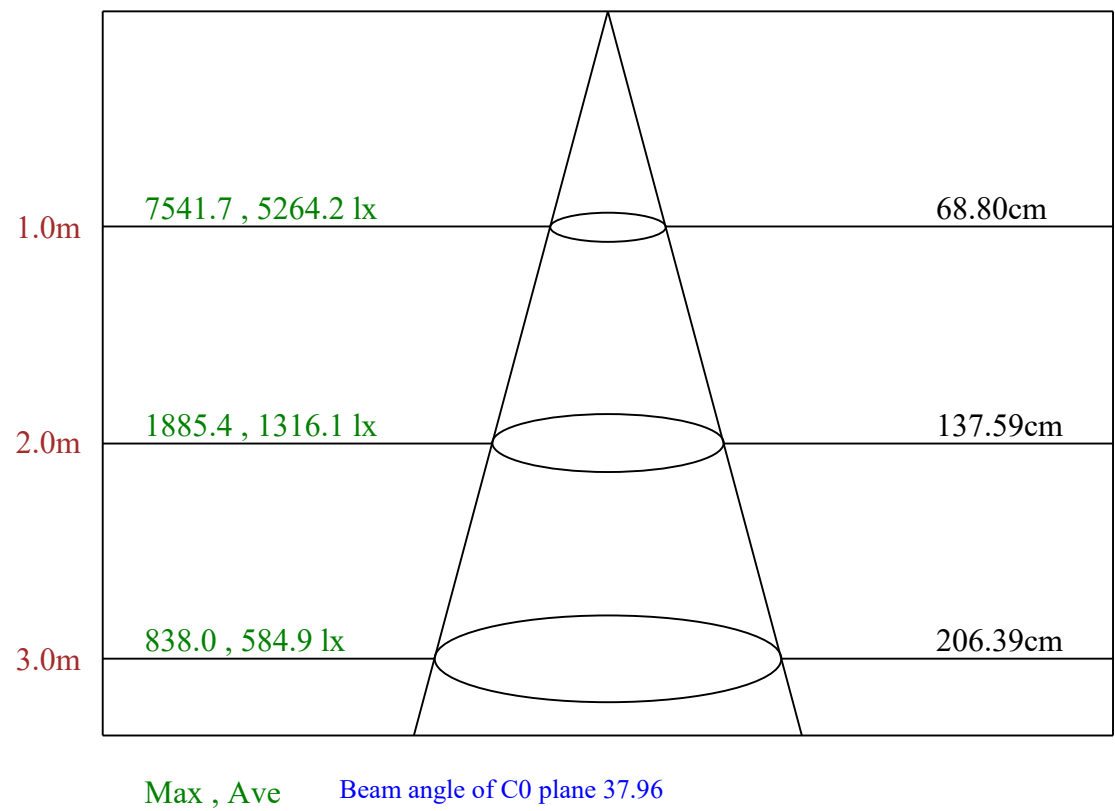
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.268	0.989	3477.845	0.03%	99.63%
77.0	9.182	0.984	3478.829	0.03%	99.66%
78.0	9.085	0.978	3479.807	0.03%	99.68%
79.0	8.978	0.971	3480.778	0.03%	99.71%
80.0	8.924	0.965	3481.743	0.03%	99.74%
81.0	8.849	0.961	3482.704	0.03%	99.77%
82.0	8.773	0.956	3483.659	0.03%	99.79%
83.0	8.698	0.950	3484.609	0.03%	99.82%
84.0	8.623	0.944	3485.553	0.03%	99.85%
85.0	8.504	0.935	3486.487	0.03%	99.88%
86.0	8.332	0.920	3487.408	0.03%	99.90%
87.0	8.149	0.902	3488.31	0.02%	99.93%
88.0	7.815	0.874	3489.184	0.02%	99.95%
89.0	7.449	0.837	3490.021	0.02%	99.98%
90.0	7.320	0.810	3490.831	0.02%	100.00%

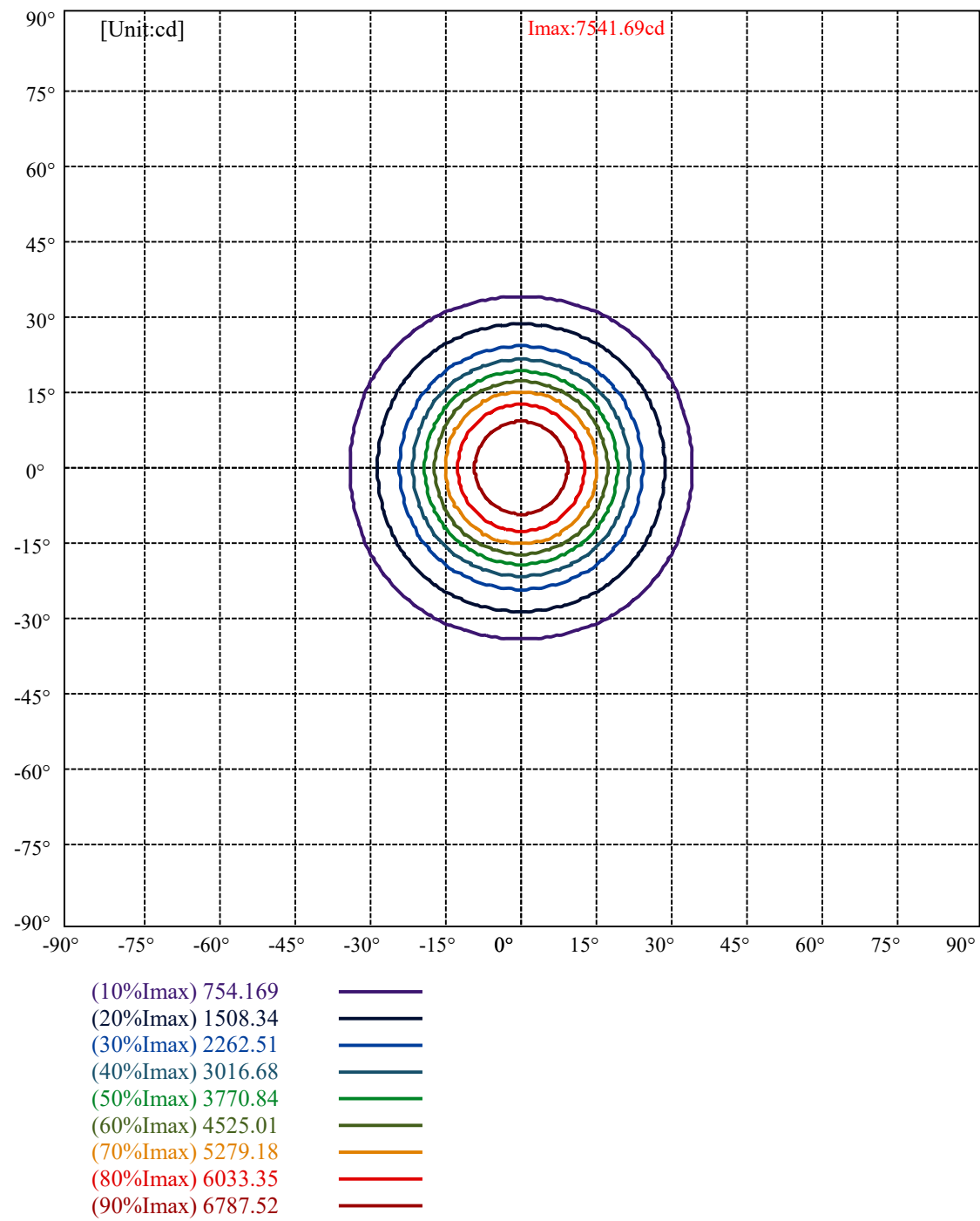
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	3052.32	83.82%	87.44%
0-40	3423.48	94.01%	98.07%
0-60	3460.57	95.03%	99.13%
0-90	3490.02	95.84%	99.98%
0-120	3490.02	95.84%	99.98%
0-180	3490.83	95.86%	100.00%
60-90	29.45	0.81%	0.84%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.67	2792.67	76.69%	80.00%

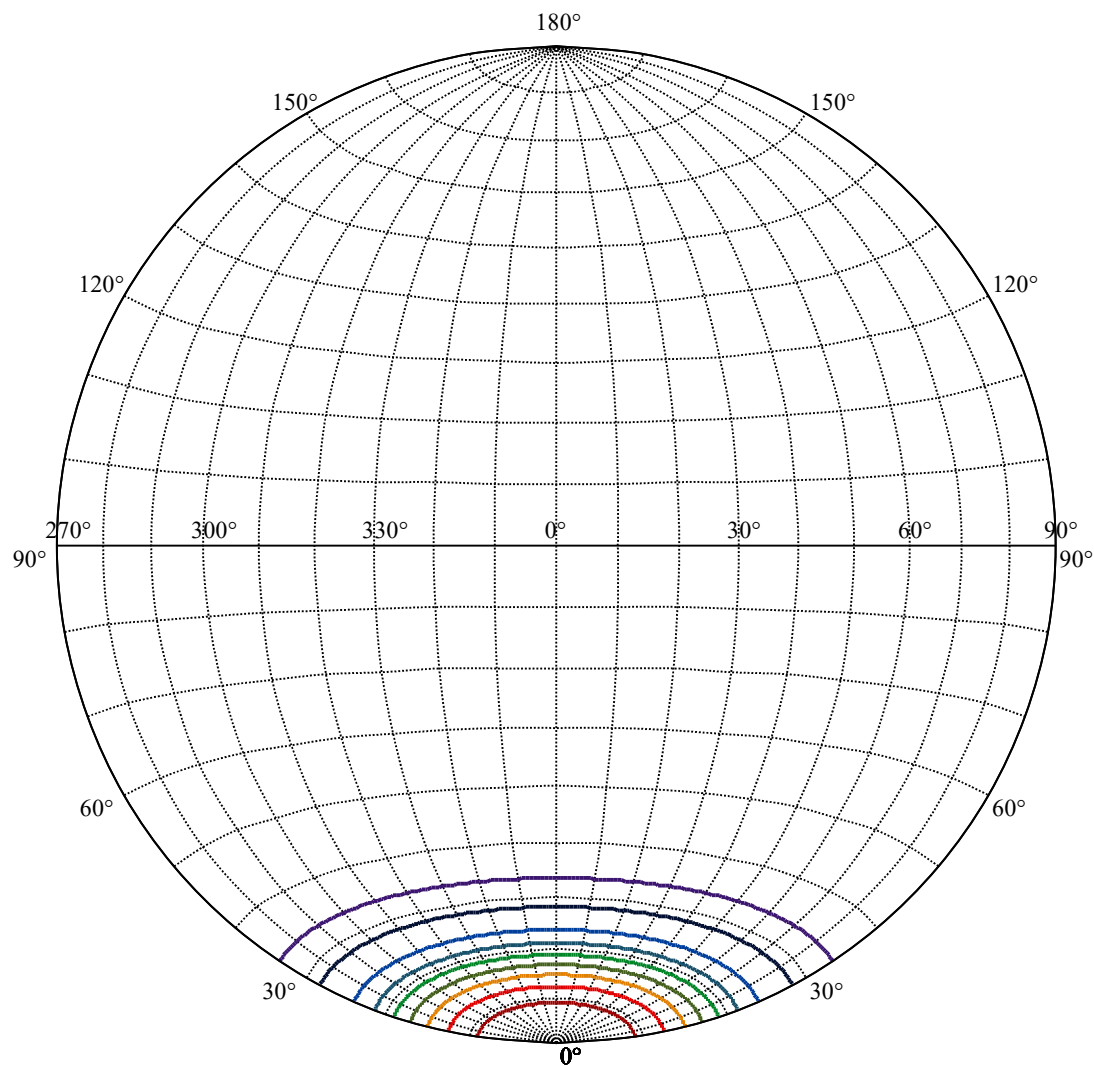
ZONAL LUMEN SUMMARY

0-10	676.34
10-20	1414.14
20-30	961.84
30-40	371.17
40-50	24.13
50-60	12.95
60-70	11.18
70-80	9.99
80-90	8.28
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00







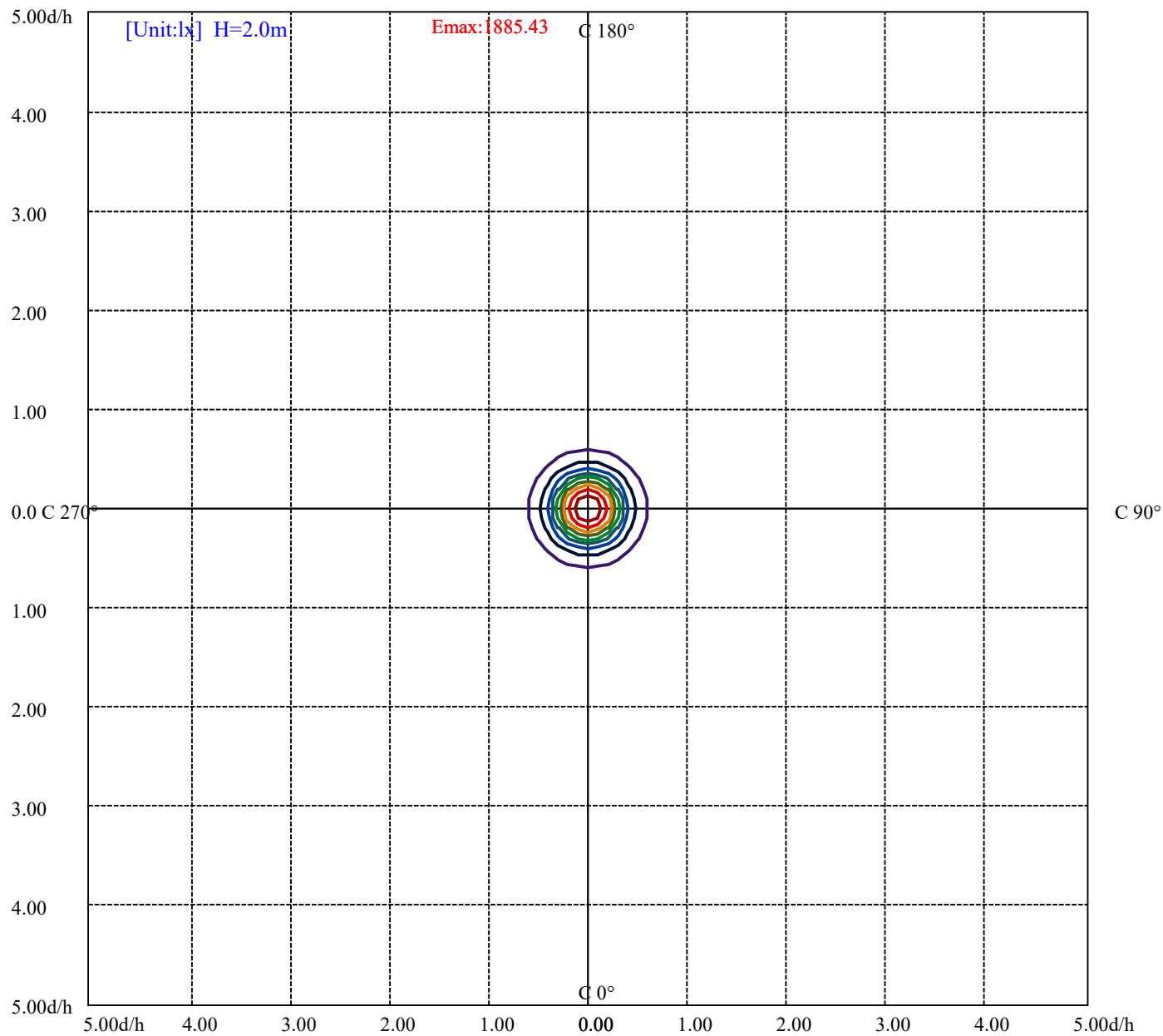


House

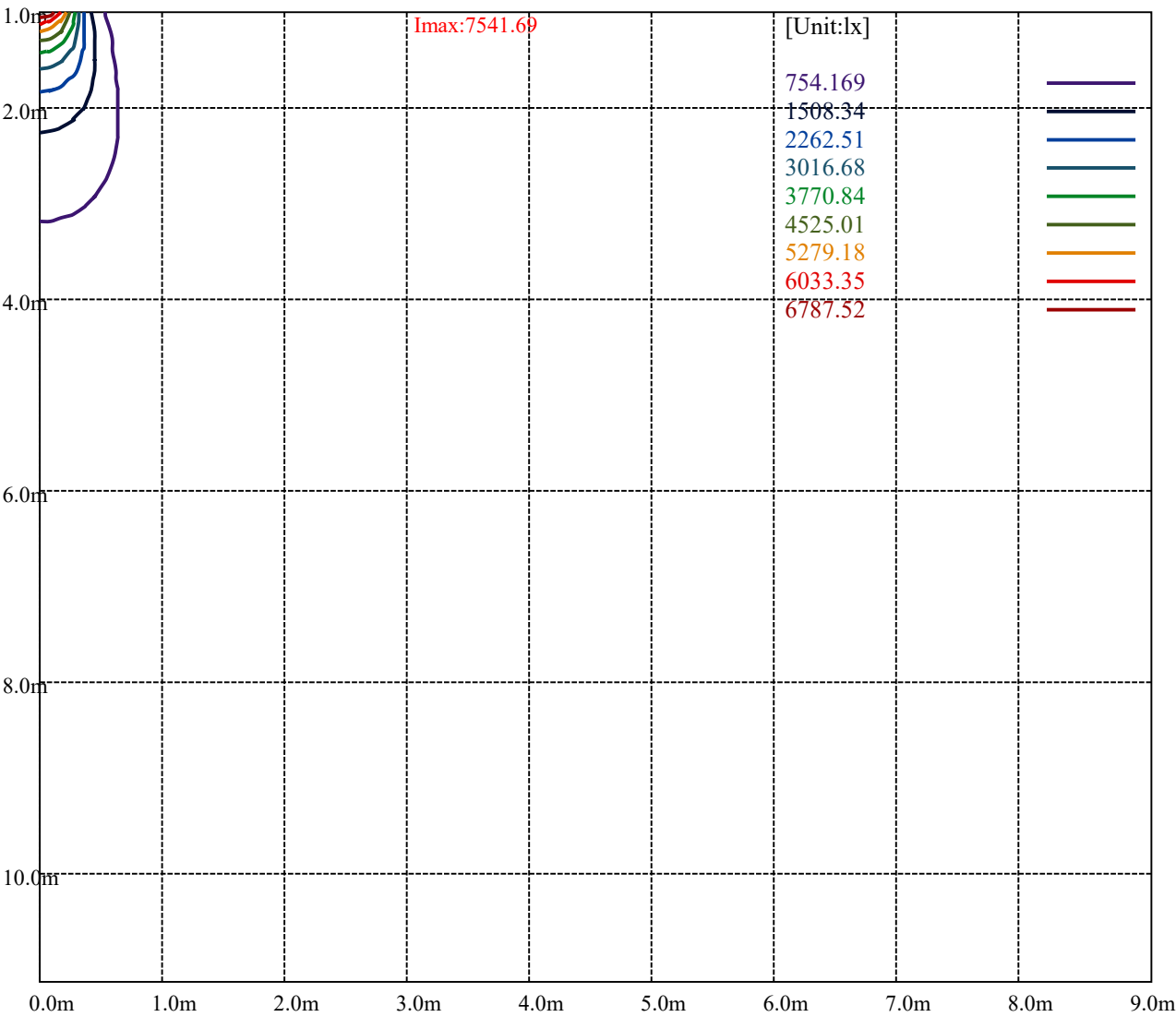
[Unit:cd]

Road

Imax:7541.69	
(10%Imax) 754.169	
(20%Imax) 1508.34	
(30%Imax) 2262.51	
(40%Imax) 3016.68	
(50%Imax) 3770.84	
(60%Imax) 4525.01	
(70%Imax) 5279.18	
(80%Imax) 6033.35	
(90%Imax) 6787.52	



(10%Emax)	188.5423	
(20%Emax)	377.085	
(30%Emax)	565.6275	
(40%Emax)	754.1675	
(50%Emax)	942.71	
(60%Emax)	1131.252	
(70%Emax)	1319.795	
(80%Emax)	1508.338	
(90%Emax)	1696.88	



Luminance Table

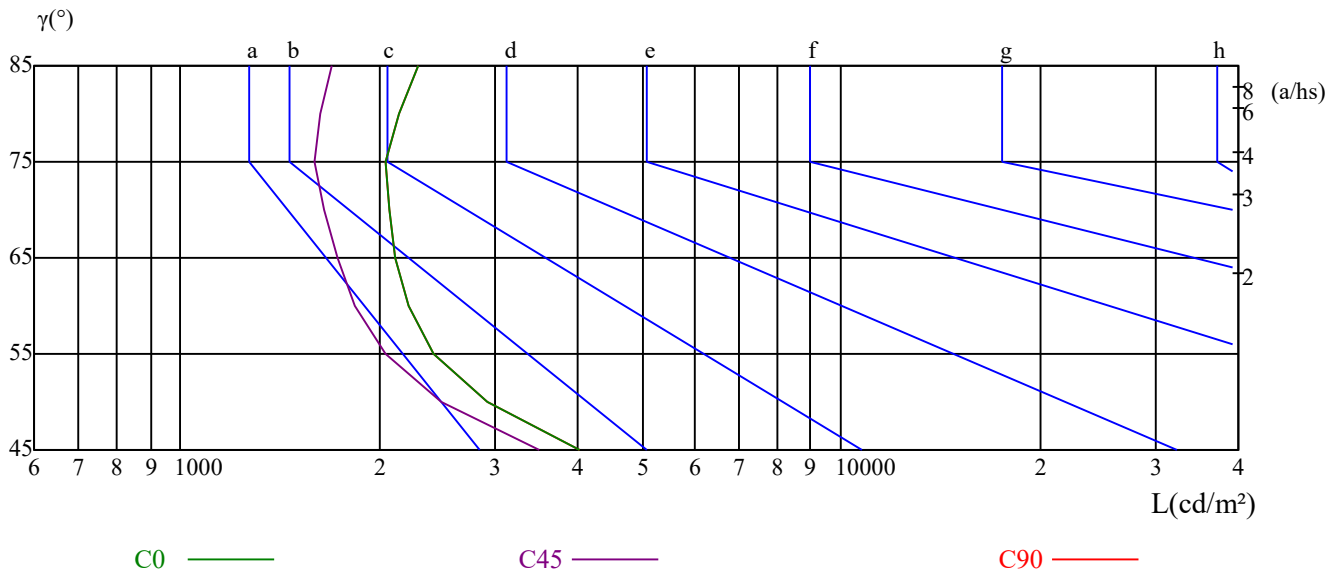
γ	45	50	55	60	65	70	75	80	85
C0	4010	2906	2420	2210	2120	2073	2049	2149	2297
C45	3484	2488	2039	1832	1726	1654	1598	1632	1689
C90	4010	2906	2420	2210	2120	2073	2049	2149	2297

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4728	4728	4728	6433	6433	6433	17347	17347	17347

Glare Table

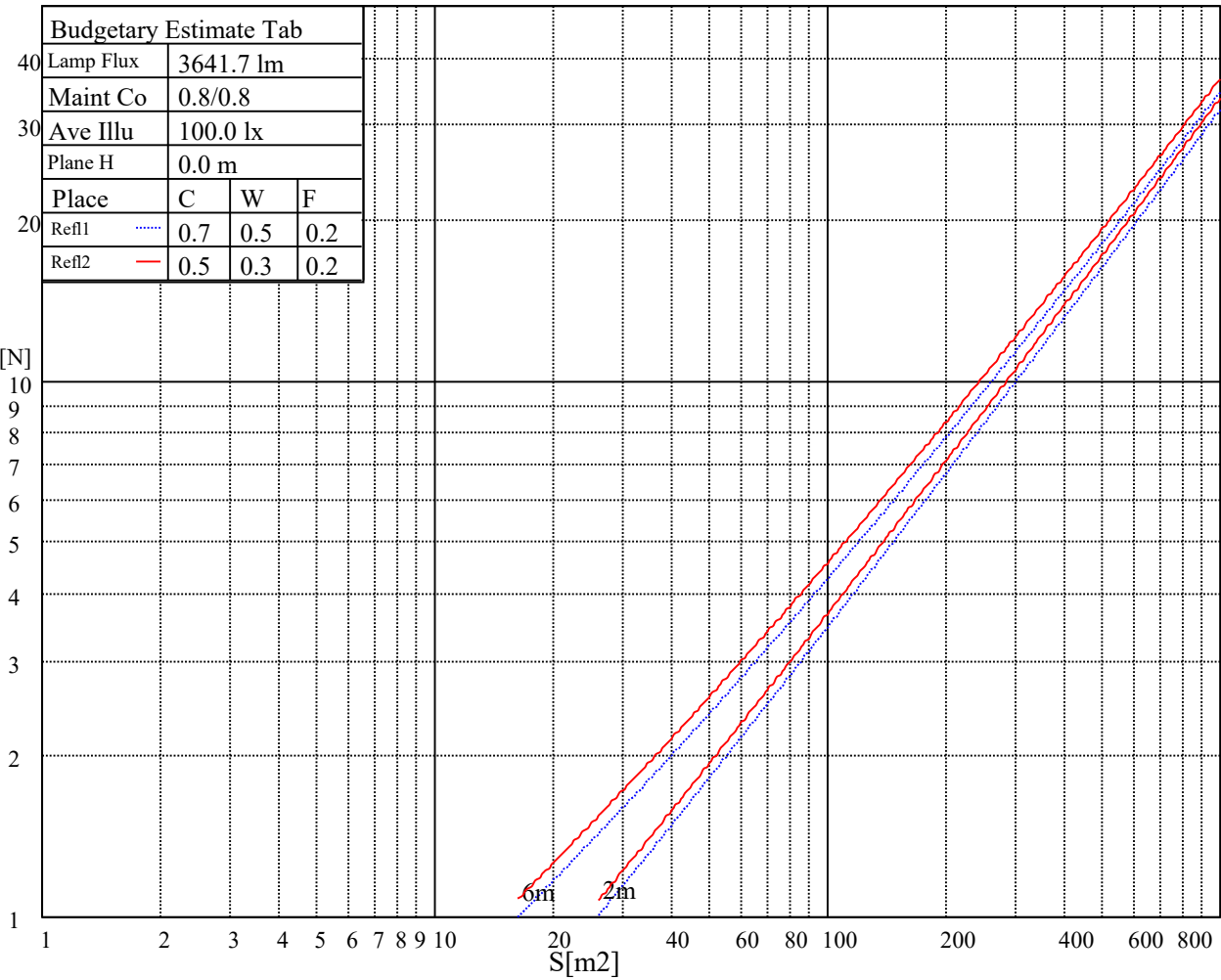
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	16.75	17.65	17.11	17.96	18.28	15.60	16.50	15.96	16.81	17.13
	3H	16.58	17.38	16.96	17.72	18.07	15.45	16.26	15.84	16.59	16.94
	4H	16.51	17.25	16.91	17.61	17.98	15.40	16.14	15.80	16.50	16.87
	6H	16.48	17.16	16.90	17.54	17.94	15.39	16.07	15.81	16.45	16.85
	8H	16.45	17.09	16.87	17.48	17.89	15.38	16.02	15.80	16.41	16.82
	12H	16.43	17.04	16.85	17.43	17.85	15.38	15.99	15.80	16.38	16.80
4H	2H	16.43	17.18	16.83	17.53	17.90	15.29	16.03	15.69	16.39	16.76
	3H	16.24	16.87	16.67	17.26	17.68	15.14	15.76	15.56	16.16	16.58
	4H	16.23	16.77	16.67	17.19	17.64	15.15	15.68	15.59	16.11	16.56
	6H	16.19	16.67	16.67	17.12	17.58	15.15	15.62	15.62	16.08	16.53
	8H	16.21	16.65	16.70	17.11	17.58	15.19	15.63	15.68	16.09	16.57
	12H	16.25	16.66	16.74	17.11	17.63	15.27	15.67	15.76	16.13	16.65
8H	4H	16.06	16.50	16.54	16.96	17.43	14.99	15.43	15.48	15.89	16.36
	6H	16.05	16.41	16.56	16.89	17.40	15.04	15.39	15.54	15.87	16.39
	8H	16.15	16.45	16.69	16.97	17.47	15.18	15.47	15.71	16.00	16.50
	12H	16.25	16.47	16.80	16.99	17.52	15.33	15.55	15.87	16.07	16.59
12H	4H	16.01	16.42	16.50	16.87	17.39	14.95	15.35	15.44	15.80	16.33
	6H	16.06	16.36	16.59	16.88	17.38	15.05	15.35	15.59	15.87	16.37
	8H	16.14	16.36	16.69	16.88	17.41	15.18	15.40	15.73	15.92	16.45
Variation with the observer position at spacings:											
S = 1.0H		6.2/-9.1					6.2/-9.1				
S = 1.5H		8.7/-7.5					8.7/-7.5				
S = 2.0H		10.5/-6.5					10.5/-6.5				
Standard tables:		BK1					BK1				
Uncorrected UGR		-2.8					-2.8				

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	1.14	1.14	1.14	1.11	1.11	1.11	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
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	0.93	0.91
2	1.01	0.98	0.95	0.99	0.96	0.94	0.96	0.94	0.92	0.93	0.91	0.90	0.91	0.89	0.88	0.86
3	0.95	0.91	0.88	0.94	0.90	0.87	0.92	0.89	0.86	0.90	0.87	0.85	0.87	0.85	0.83	0.82
4	0.91	0.86	0.83	0.90	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.82	0.79	0.78
5	0.86	0.81	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.74
6	0.82	0.77	0.74	0.81	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	0.78	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	0.70	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

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	7562.14	7572.48	7552.67	7522.53	7481.19	7430.38	7367.52	7287.43	7184.94
45.0	7523.39	7548.36	7577.64	7544.06	7501.00	7455.36	7415.74	7312.40	7205.61
90.0	7536.31	7547.50	7495.83	7452.77	7395.93	7287.43	7184.94	7016.15	6855.11
135.0	7548.36	7521.67	7504.44	7458.80	7393.35	7312.40	7219.39	7112.60	6942.09
180.0	7562.14	7523.39	7488.08	7425.21	7357.18	7252.98	7155.66	7043.71	6874.06
225.0	7516.50	7459.66	7404.55	7302.93	7223.70	7124.66	7005.82	6827.55	6673.40
270.0	7536.31	7538.03	7503.58	7445.88	7379.57	7292.59	7190.11	7064.38	6943.81
315.0	7548.36	7531.14	7490.66	7440.72	7383.02	7310.68	7220.25	7110.02	6986.01
360.0	7562.14	7572.48	7552.67	7522.53	7481.19	7430.38	7367.52	7287.43	7184.94
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7038.54	6885.25	6707.85	6449.49	6188.55	5838.91	5524.58	5177.52	4823.58
45.0	7078.16	6937.78	6722.49	6529.58	6310.84	6054.21	5682.18	5354.07	4916.59
90.0	6700.10	6435.71	6207.50	5941.39	5646.87	5329.09	4914.86	4538.53	4188.89
135.0	6792.24	6628.62	6391.79	6157.55	5899.20	5606.39	5277.42	4847.69	4485.99
180.0	6699.24	6525.28	6320.32	6015.46	5754.52	5455.69	5132.74	4691.82	4329.26
225.0	6509.78	6317.73	6053.35	5814.80	5543.53	5174.08	4839.94	4503.22	4064.87
270.0	6802.58	6595.89	6415.05	6216.97	5942.26	5709.74	5435.02	5069.88	4741.77
315.0	6844.78	6641.54	6458.10	6195.44	5939.67	5663.23	5281.73	4948.45	4602.25
360.0	7038.54	6885.25	6707.85	6449.49	6188.55	5838.91	5524.58	5177.52	4823.58
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	4373.18	4018.37	3669.59	3336.31	2949.64	2662.01	2407.10	2174.58	1712.46
45.0	4562.64	4206.97	3764.32	3439.66	3128.77	2846.30	2523.36	2283.08	2073.82
90.0	3738.49	3402.62	3100.35	2819.60	2489.77	2258.11	1694.72	1694.72	1657.35
135.0	4128.60	3698.01	3374.21	3069.35	2726.59	2481.16	2198.69	1997.17	1825.80
180.0	3962.39	3543.86	3223.50	2925.53	2592.25	2351.98	2134.10	1900.72	1742.26
225.0	3718.68	3320.81	3022.84	2756.74	2520.77	2250.36	2058.32	1696.02	1696.02
270.0	4398.15	4047.65	3623.09	3319.95	3012.51	2729.18	2432.07	2218.50	1964.45
315.0	4259.50	3828.05	3511.13	3197.66	2910.03	2587.94	2354.56	2136.68	1707.99
360.0	4373.18	4018.37	3669.59	3336.31	2949.64	2662.01	2407.10	2174.58	1712.46
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1712.46	1607.31	1463.32	1357.23	1202.64	1071.83	940.07	812.44	652.52
45.0	1892.11	1696.62	1564.00	1452.90	1304.78	1172.16	1039.54	874.19	738.12
90.0	1488.90	1373.24	1255.95	1133.40	969.87	838.28	709.79	583.19	433.18
135.0	1673.37	1512.33	1392.62	1262.58	1122.21	949.97	814.77	683.87	559.86
180.0	1602.75	1482.18	1329.75	1192.83	1056.76	918.97	750.18	614.97	471.15
225.0	1567.01	1438.78	1302.20	1158.03	983.64	843.53	704.02	539.36	417.24
270.0	1790.49	1650.11	1490.80	1364.20	1234.16	1105.85	936.19	793.24	665.78
315.0	1707.99	1607.06	1456.26	1332.85	1199.11	1027.65	891.84	760.43	629.87
360.0	1712.46	1607.31	1463.32	1357.23	1202.64	1071.83	940.07	812.44	652.52
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	530.06	418.45	311.58	194.89	118.84	67.95	47.28	39.61	33.33
45.0	571.91	446.18	446.18	309.42	121.77	70.96	48.66	40.48	32.12
90.0	327.42	231.57	153.29	85.52	60.20	48.57	41.16	35.05	29.19
135.0	440.15	440.15	196.18	104.81	59.94	43.23	37.55	31.00	25.66
180.0	444.46	444.46	162.42	80.43	49.60	40.39	34.10	28.25	23.68
225.0	280.14	184.72	110.40	65.19	44.70	39.01	32.55	26.78	21.96
270.0	506.46	446.18	446.18	185.84	121.08	72.51	56.24	47.11	39.96
315.0	476.92	359.29	255.86	145.63	83.10	53.48	42.89	35.05	28.76
360.0	530.06	418.45	311.58	194.89	118.84	67.95	47.28	39.61	33.33

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	26.61	23.08	21.79	20.24	19.12	18.17	17.14	16.28	15.59
45.0	26.27	22.39	20.58	19.29	18.52	17.57	16.97	16.19	15.24
90.0	26.09	23.42	21.70	19.72	18.69	17.65	16.71	15.67	14.90
135.0	21.87	20.84	19.98	19.12	18.17	17.48	16.88	15.85	15.24
180.0	21.10	20.24	19.46	18.69	18.00	17.31	16.71	16.28	15.67
225.0	20.75	19.81	18.95	18.00	17.31	16.53	15.67	14.98	14.47
270.0	34.19	28.76	26.18	23.25	21.27	20.15	19.29	18.43	17.31
315.0	23.85	20.84	19.72	18.43	17.40	16.62	15.85	14.73	13.95
360.0	26.61	23.08	21.79	20.24	19.12	18.17	17.14	16.28	15.59
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	14.90	14.30	13.78	13.26	12.83	12.40	12.06	11.80	11.54
45.0	14.73	14.21	13.87	13.26	12.83	12.49	12.31	11.97	11.80
90.0	14.38	13.52	13.00	12.75	12.49	12.31	12.14	12.06	11.88
135.0	14.73	14.21	13.78	13.52	13.18	12.83	12.57	12.31	11.97
180.0	15.33	14.81	14.47	14.21	13.78	13.43	13.18	12.92	12.49
225.0	14.04	13.52	13.09	12.75	12.49	12.23	12.06	11.80	11.54
270.0	16.62	16.19	15.59	14.90	14.47	14.12	13.78	13.43	13.18
315.0	13.35	12.83	12.31	11.97	11.71	11.28	11.02	10.85	10.59
360.0	14.90	14.30	13.78	13.26	12.83	12.40	12.06	11.80	11.54
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.28	11.02	10.76	10.59	10.42	10.33	10.25	10.08	9.99
45.0	11.54	11.28	11.02	10.94	10.68	10.51	10.33	10.08	9.90
90.0	11.71	11.63	11.45	11.37	11.20	10.85	10.68	10.33	9.99
135.0	11.80	11.54	11.28	11.11	10.94	10.59	10.42	10.33	9.99
180.0	12.23	11.97	11.71	11.45	11.20	10.85	10.59	10.33	10.08
225.0	11.45	11.20	11.02	10.85	10.59	10.51	10.25	9.99	9.73
270.0	12.92	12.66	12.40	12.14	11.80	11.63	11.37	11.11	10.76
315.0	10.51	10.33	10.25	10.16	10.08	9.99	9.90	9.90	9.82
360.0	11.28	11.02	10.76	10.59	10.42	10.33	10.25	10.08	9.99
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.82	9.73	9.65	9.56	9.47	9.39	9.21	9.04	9.04
45.0	9.73	9.47	9.21	9.13	8.96	8.96	8.87	8.70	8.70
90.0	9.73	9.47	9.39	9.21	9.13	9.04	9.04	9.04	8.96
135.0	9.82	9.65	9.56	9.39	9.30	9.21	9.13	9.04	8.96
180.0	9.90	9.73	9.73	9.56	9.47	9.30	9.13	9.04	8.96
225.0	9.56	9.30	9.30	9.04	9.04	8.96	8.87	8.78	8.70
270.0	10.51	10.16	9.73	9.65	9.47	9.39	9.30	9.21	9.13
315.0	9.65	9.56	9.47	9.39	9.30	9.21	9.13	8.96	8.96
360.0	9.82	9.73	9.65	9.56	9.47	9.39	9.21	9.04	9.04
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.78	8.78	8.70	8.61	8.44	8.27	8.10	7.75	7.66
45.0	8.61	8.53	8.44	8.44	8.27	8.18	8.01	7.84	7.49
90.0	8.96	8.78	8.70	8.61	8.44	8.27	8.10	7.66	7.23
135.0	8.87	8.87	8.78	8.78	8.70	8.53	8.53	8.27	7.49
180.0	8.87	8.78	8.70	8.53	8.44	8.27	8.27	8.10	7.41
225.0	8.70	8.61	8.53	8.44	8.35	8.18	8.01	7.49	7.32
270.0	9.13	9.04	8.96	8.87	8.78	8.61	8.18	7.84	7.49
315.0	8.87	8.78	8.78	8.70	8.61	8.35	8.01	7.58	7.49
360.0	8.78	8.78	8.70	8.61	8.44	8.27	8.10	7.75	7.66

Intensity data(cd)

C/ γ (°)	90.0
0.0	7.41
45.0	7.32
90.0	7.23
135.0	7.32
180.0	7.32
225.0	7.32
270.0	7.32
315.0	7.32
360.0	7.41