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Nata

Client: NT

LumCAT: 2-2734-LM4

Luminaire: 92.70.121.00 LED HOLDER

Report No: 20251107-B025

Ballast type: DC

Test No: 20251107-C025

Voltage(V): 36.490

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.714

Lamp flux(lm): 3661.5

Power (W): 26.050

Number of Lamps: 1

PF: 0.000

Length(mm): 75

Width(mm): 75

Phm Type: C

Height(mm): 43

Photometric Results

Lumens(lm): 3585.60, Efficiency(%): 97.93% , Luminous Efficacy(lm/W): 137.64

Central intensity(cd): 22238.780, Maximum intensity(cd): 22238.780

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=17.4

[C90/270]Total=17.4

Field angle(10%Imax): [C0/180]Total=37.0

[C90/270]Total=37.0

Maximum s/h(1/2): C0_180=0.30 C90_270=0.30

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

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 97.93%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.091%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	22238.785	0.000	0	0.00%	0.00%
1.0	22093.461	21.212	21.212	0.58%	0.59%
2.0	21421.736	62.457	83.669	1.71%	2.33%
3.0	20170.457	99.475	183.144	2.72%	5.11%
4.0	19388.934	132.418	315.562	3.62%	8.80%
5.0	17654.949	159.361	474.923	4.35%	13.25%
6.0	16030.983	177.029	651.951	4.83%	18.18%
7.0	14373.527	188.720	840.672	5.15%	23.45%
8.0	12411.857	191.698	1032.369	5.24%	28.79%
9.0	10474.516	185.482	1217.851	5.07%	33.97%
10.0	8706.183	173.578	1391.429	4.74%	38.81%
11.0	7229.252	159.228	1550.657	4.35%	43.25%
12.0	5892.802	143.443	1694.1	3.92%	47.25%
13.0	4973.381	128.954	1823.054	3.52%	50.84%
14.0	4166.893	116.995	1940.049	3.20%	54.11%
15.0	3534.579	105.729	2045.778	2.89%	57.06%
16.0	3194.950	98.606	2144.384	2.69%	59.81%
17.0	2738.953	92.407	2236.791	2.52%	62.38%
18.0	2351.000	83.922	2320.713	2.29%	64.72%
19.0	2106.208	77.546	2398.26	2.12%	66.89%
20.0	1891.106	73.162	2471.422	2.00%	68.93%
21.0	1771.219	70.324	2541.746	1.92%	70.89%
22.0	1639.102	68.532	2610.278	1.87%	72.80%
23.0	1554.760	67.016	2677.293	1.83%	74.67%
24.0	1482.647	66.409	2743.702	1.81%	76.52%
25.0	1417.143	65.935	2809.637	1.80%	78.36%
26.0	1361.596	65.592	2875.229	1.79%	80.19%
27.0	1312.068	65.412	2940.641	1.79%	82.01%
28.0	1259.998	65.119	3005.76	1.78%	83.83%
29.0	1204.570	64.480	3070.24	1.76%	85.63%
30.0	1134.804	63.163	3133.403	1.73%	87.39%
31.0	1046.554	60.704	3194.107	1.66%	89.08%
32.0	943.362	57.009	3251.116	1.56%	90.67%
33.0	835.122	52.395	3303.511	1.43%	92.13%
34.0	719.961	47.061	3350.572	1.29%	93.45%
35.0	600.708	41.015	3391.587	1.12%	94.59%
36.0	496.839	34.946	3426.533	0.95%	95.56%
37.0	373.980	28.401	3454.934	0.78%	96.36%

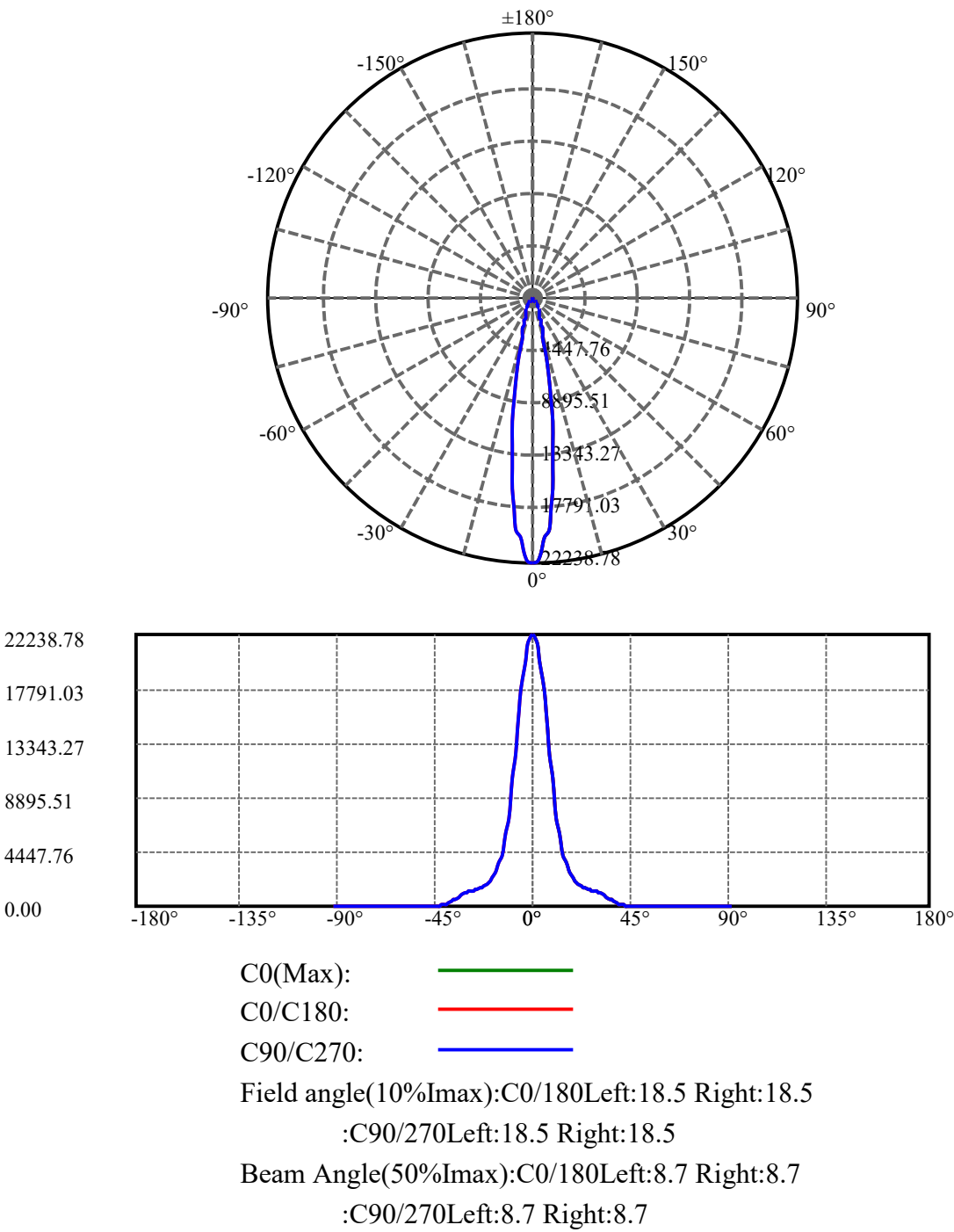
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	271.488	21.545	3476.479	0.59%	96.96%
39.0	189.224	15.725	3492.205	0.43%	97.40%
40.0	133.430	11.253	3503.458	0.31%	97.71%
41.0	74.374	7.400	3510.857	0.20%	97.92%
42.0	51.757	4.583	3515.44	0.13%	98.04%
43.0	41.025	3.437	3518.877	0.09%	98.14%
44.0	35.545	2.890	3521.767	0.08%	98.22%
45.0	31.530	2.578	3524.345	0.07%	98.29%
46.0	28.591	2.351	3526.696	0.06%	98.36%
47.0	26.761	2.202	3528.897	0.06%	98.42%
48.0	25.502	2.113	3531.01	0.06%	98.48%
49.0	24.339	2.047	3533.057	0.06%	98.53%
50.0	23.424	1.991	3535.048	0.05%	98.59%
51.0	22.552	1.945	3536.994	0.05%	98.64%
52.0	21.702	1.899	3538.893	0.05%	98.70%
53.0	20.894	1.853	3540.745	0.05%	98.75%
54.0	20.378	1.819	3542.565	0.05%	98.80%
55.0	19.861	1.796	3544.361	0.05%	98.85%
56.0	19.506	1.779	3546.14	0.05%	98.90%
57.0	19.086	1.765	3547.904	0.05%	98.95%
58.0	18.494	1.738	3549.642	0.05%	99.00%
59.0	17.913	1.702	3551.344	0.05%	99.04%
60.0	17.439	1.670	3553.014	0.05%	99.09%
61.0	16.965	1.642	3554.656	0.04%	99.14%
62.0	16.287	1.602	3556.258	0.04%	99.18%
63.0	15.630	1.552	3557.811	0.04%	99.22%
64.0	14.672	1.487	3559.298	0.04%	99.27%
65.0	13.940	1.416	3560.714	0.04%	99.31%
66.0	13.144	1.351	3562.065	0.04%	99.34%
67.0	12.326	1.281	3563.346	0.03%	99.38%
68.0	11.680	1.216	3564.562	0.03%	99.41%
69.0	11.077	1.161	3565.723	0.03%	99.45%
70.0	10.646	1.116	3566.838	0.03%	99.48%
71.0	10.216	1.078	3567.917	0.03%	99.51%
72.0	9.871	1.044	3568.961	0.03%	99.54%
73.0	9.613	1.019	3569.98	0.03%	99.56%
74.0	9.387	0.999	3570.979	0.03%	99.59%
75.0	9.225	0.983	3571.962	0.03%	99.62%

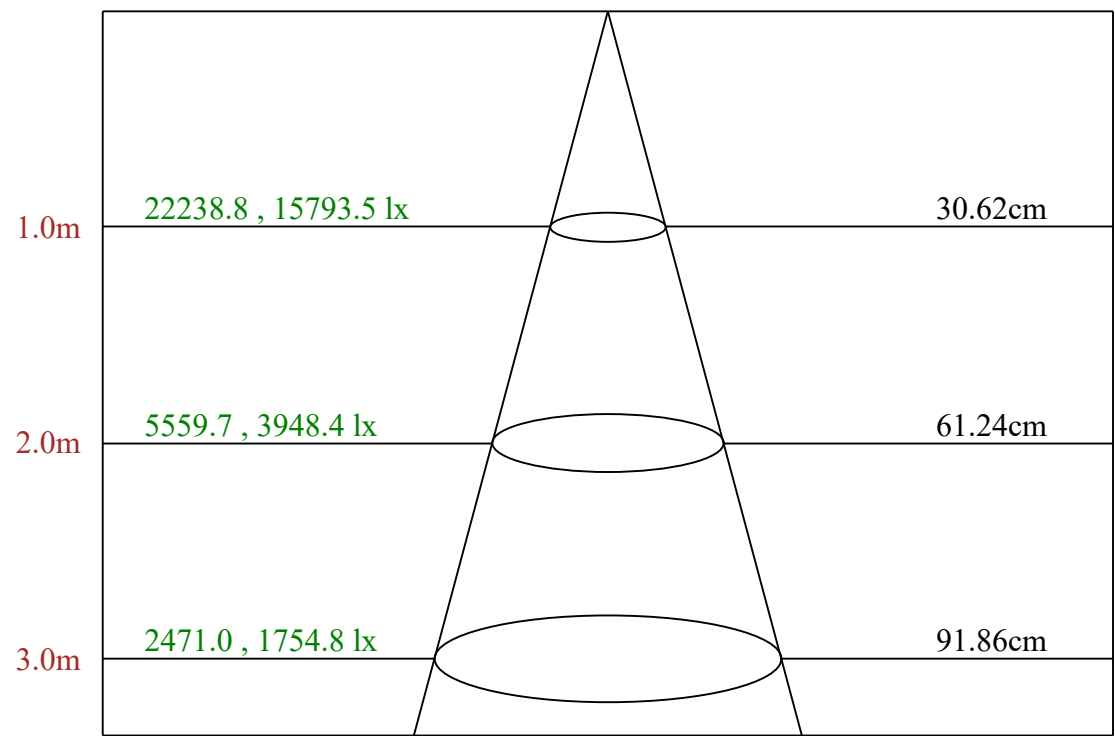
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.139	0.975	3572.937	0.03%	99.65%
77.0	9.010	0.968	3573.905	0.03%	99.67%
78.0	8.935	0.961	3574.865	0.03%	99.70%
79.0	8.838	0.955	3575.82	0.03%	99.73%
80.0	8.719	0.947	3576.767	0.03%	99.75%
81.0	8.644	0.939	3577.706	0.03%	99.78%
82.0	8.547	0.932	3578.638	0.03%	99.81%
83.0	8.450	0.924	3579.562	0.03%	99.83%
84.0	8.267	0.911	3580.473	0.02%	99.86%
85.0	8.095	0.893	3581.366	0.02%	99.88%
86.0	7.977	0.879	3582.244	0.02%	99.91%
87.0	7.804	0.864	3583.108	0.02%	99.93%
88.0	7.643	0.846	3583.954	0.02%	99.95%
89.0	7.503	0.830	3584.784	0.02%	99.98%
90.0	7.438	0.819	3585.604	0.02%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	3133.40	85.58%	87.39%
0-40	3503.46	95.68%	97.71%
0-60	3553.01	97.04%	99.09%
0-90	3584.78	97.90%	99.98%
0-120	3584.78	97.90%	99.98%
0-180	3585.60	97.93%	100.00%
60-90	31.77	0.87%	0.89%
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%
0-25.90	2868.48	78.34%	80.00%

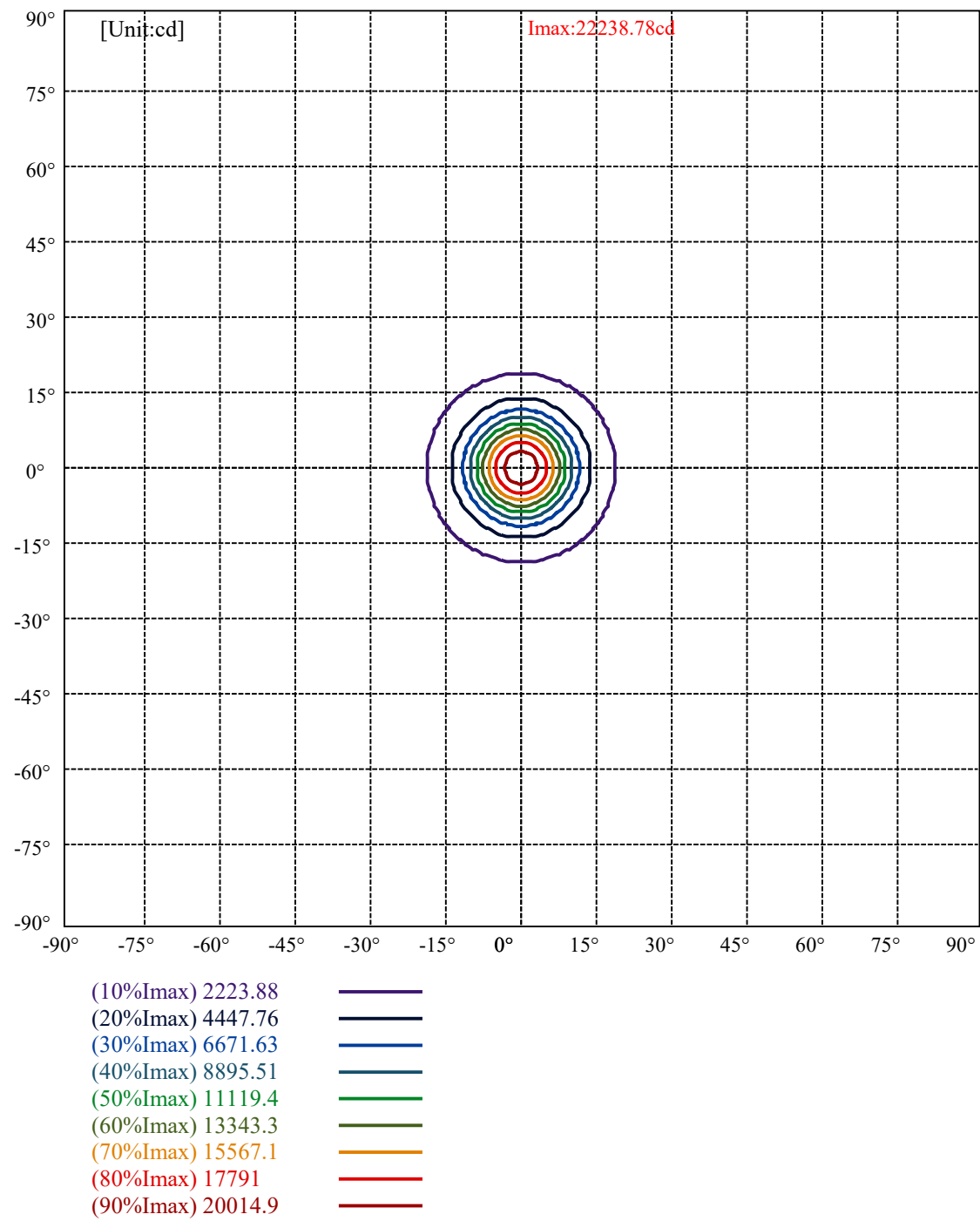
ZONAL LUMEN SUMMARY

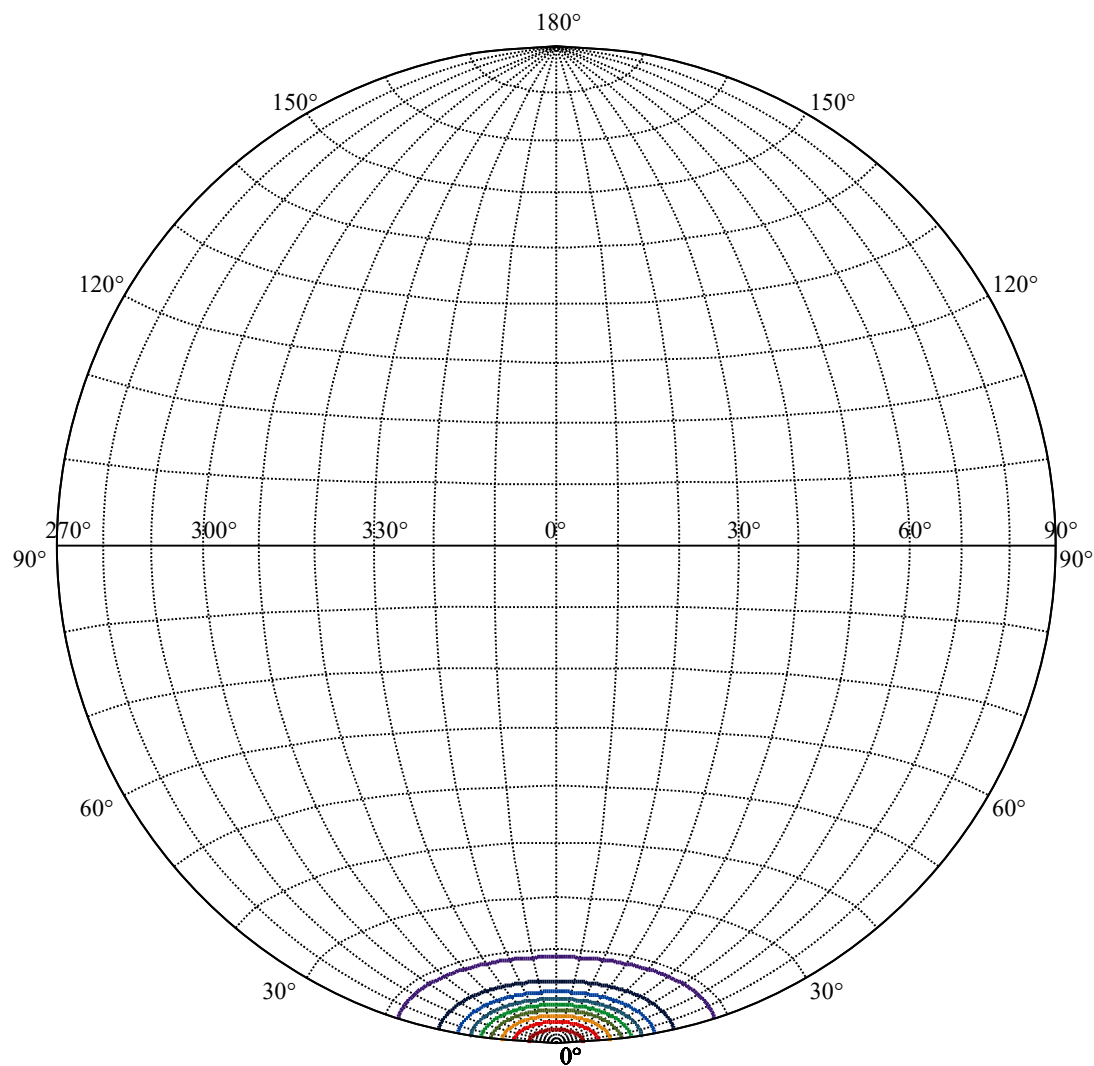
0-10	1391.43
10-20	1079.99
20-30	661.98
30-40	370.05
40-50	31.59
50-60	17.97
60-70	13.82
70-80	9.93
80-90	8.02
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C0 plane 17.41



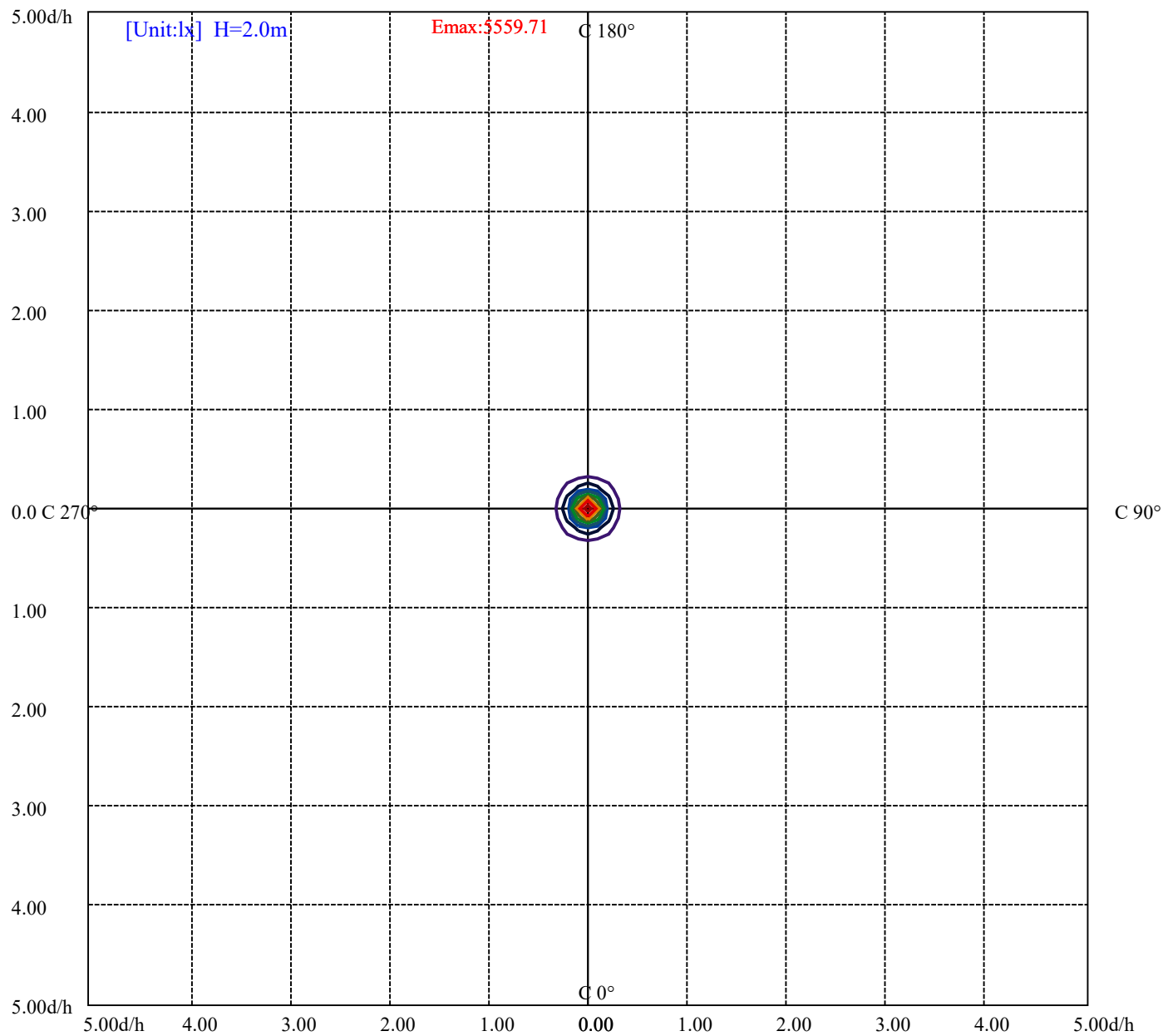


House

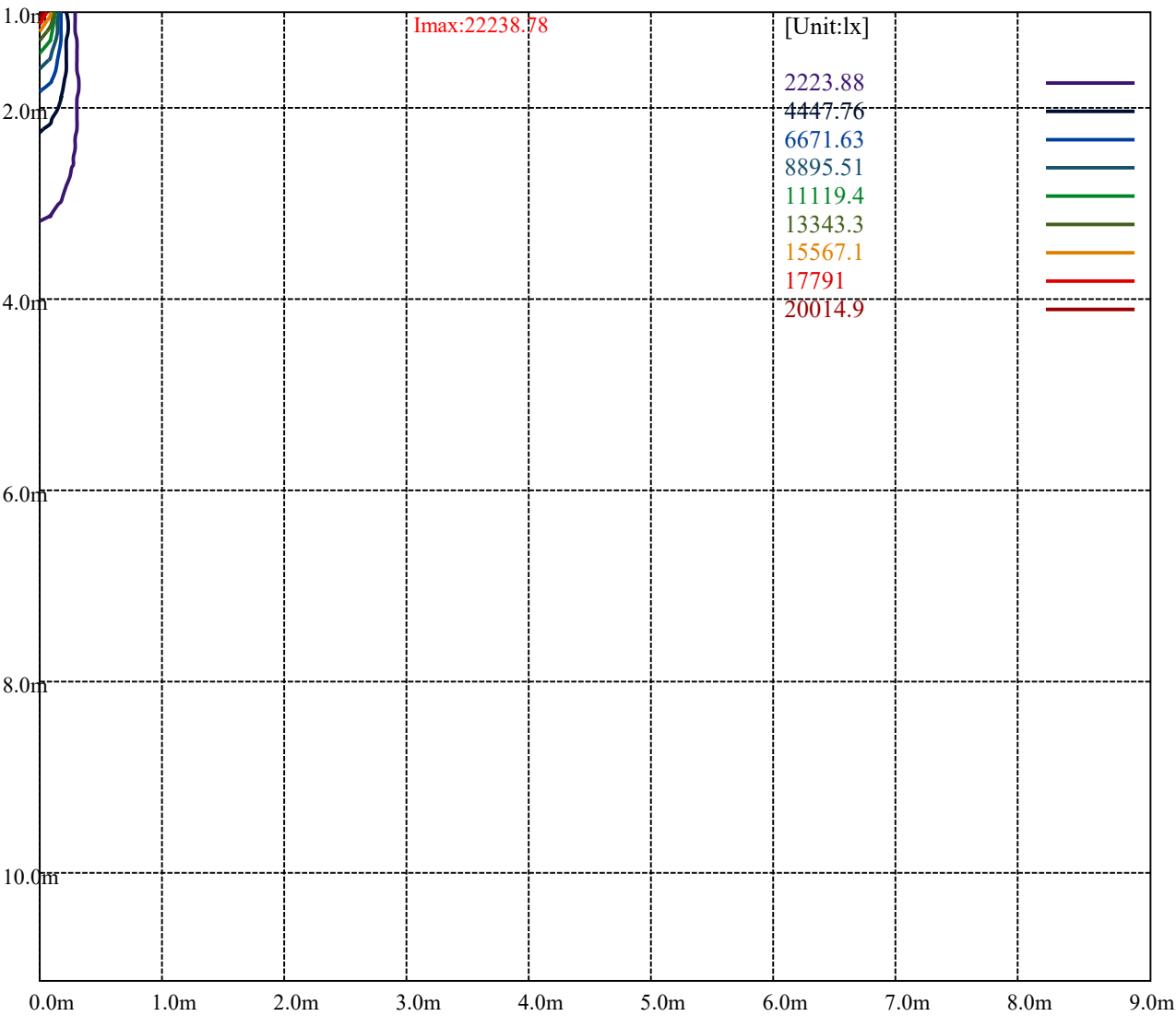
[Unit:cd]

Road

Imax:22238.78	
(10%Imax) 2223.88	
(20%Imax) 4447.76	
(30%Imax) 6671.63	
(40%Imax) 8895.51	
(50%Imax) 11119.4	
(60%Imax) 13343.3	
(70%Imax) 15567.1	
(80%Imax) 17791	
(90%Imax) 20014.9	



(10%Emax)	555.97	
(20%Emax)	1111.938	
(30%Emax)	1667.907	
(40%Emax)	2223.875	
(50%Emax)	2779.85	
(60%Emax)	3335.825	
(70%Emax)	3891.775	
(80%Emax)	4447.75	
(90%Emax)	5003.725	



Luminance Table

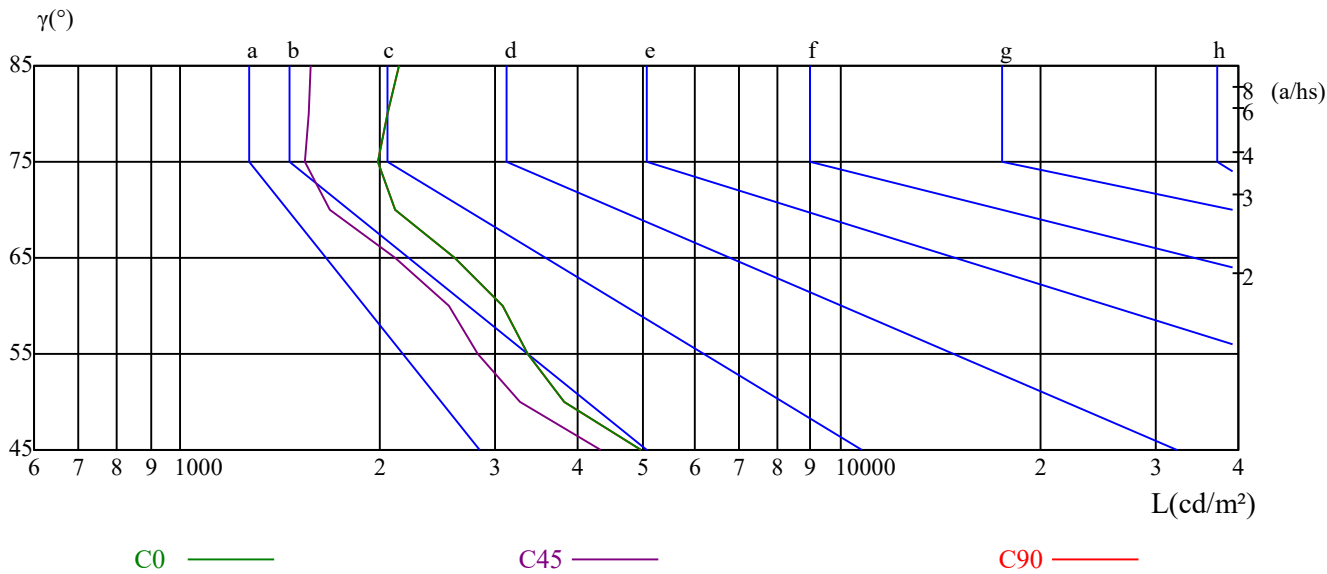
γ	45	50	55	60	65	70	75	80	85
C0	4996	3813	3349	3075	2597	2119	1987	2063	2143
C45	4333	3258	2817	2544	2110	1687	1547	1565	1575
C90	4996	3813	3349	3075	2597	2119	1987	2063	2143

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5864	5864	5864	6337	6337	6337	16512	16512	16512

Glare Table

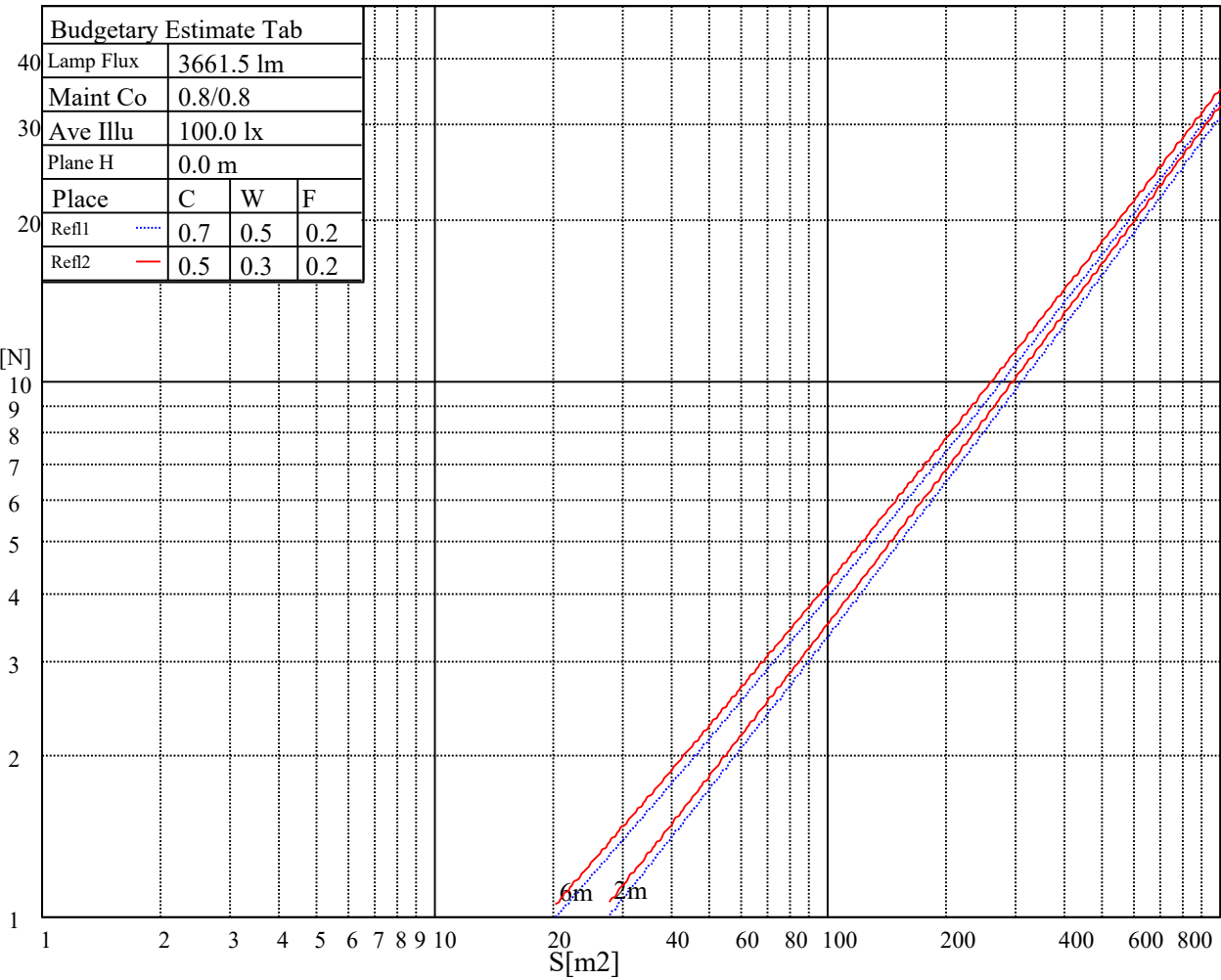
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	17.70	18.61	18.06	18.92	19.24	16.90	17.81	17.26	18.12	18.44
	3H	17.53	18.34	17.92	18.68	19.02	16.74	17.55	17.13	17.89	18.24
	4H	17.45	18.20	17.85	18.55	18.92	16.67	17.42	17.08	17.78	18.15
	6H	17.40	18.08	17.82	18.46	18.86	16.64	17.32	17.06	17.70	18.10
	8H	17.35	18.00	17.78	18.39	18.80	16.60	17.25	17.02	17.64	18.05
	12H	17.32	17.93	17.74	18.33	18.75	16.57	17.19	17.00	17.59	18.00
4H	2H	17.40	18.14	17.80	18.50	18.87	16.60	17.35	17.00	17.71	18.07
	3H	17.21	17.84	17.63	18.23	18.65	16.43	17.06	16.86	17.46	17.88
	4H	17.18	17.72	17.61	18.14	18.59	16.42	16.96	16.86	17.38	17.83
	6H	17.11	17.58	17.58	18.04	18.49	16.37	16.85	16.85	17.30	17.76
	8H	17.10	17.54	17.59	18.00	18.48	16.38	16.82	16.87	17.28	17.76
	12H	17.11	17.52	17.60	17.97	18.49	16.41	16.81	16.90	17.27	17.79
8H	4H	17.00	17.44	17.48	17.90	18.37	16.25	16.69	16.73	17.15	17.62
	6H	16.95	17.31	17.46	17.79	18.30	16.23	16.59	16.74	17.07	17.58
	8H	17.02	17.31	17.55	17.84	18.34	16.32	16.62	16.86	17.14	17.64
	12H	17.07	17.29	17.62	17.81	18.34	16.40	16.63	16.95	17.14	17.67
12H	4H	16.95	17.35	17.44	17.81	18.33	16.20	16.61	16.69	17.06	17.58
	6H	16.95	17.25	17.49	17.77	18.27	16.24	16.53	16.77	17.06	17.56
	8H	16.99	17.22	17.54	17.74	18.26	16.31	16.53	16.85	17.05	17.57
Variation with the observer position at spacings:											
S = 1.0H		5.9/-8.1					5.9/-8.1				
S = 1.5H		8.5/-7.0					8.5/-7.0				
S = 2.0H		10.3/-6.4					10.3/-6.4				
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	1.17	1.17	1.17	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.10	1.08	1.06	1.08	1.06	1.05	1.04	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.96	0.94
2	1.05	1.01	0.99	1.03	1.00	0.98	1.00	0.98	0.96	0.97	0.95	0.94	0.94	0.93	0.92	0.90
3	1.00	0.96	0.93	0.98	0.95	0.92	0.96	0.93	0.91	0.94	0.91	0.89	0.92	0.90	0.88	0.87
4	0.95	0.91	0.88	0.94	0.91	0.88	0.92	0.89	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.84
5	0.92	0.87	0.84	0.91	0.87	0.84	0.89	0.86	0.83	0.88	0.85	0.82	0.86	0.84	0.82	0.81
6	0.88	0.84	0.81	0.88	0.83	0.80	0.86	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.79	0.78
7	0.85	0.81	0.78	0.85	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.81	0.79	0.76	0.75
8	0.82	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
9	0.80	0.76	0.73	0.79	0.75	0.73	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.71
10	0.77	0.73	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69

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	22249.55	22490.68	22361.50	21870.63	21078.34	19166.51	17156.59	16744.95	15022.58
45.0	21982.58	22378.73	22473.46	22215.10	21655.33	20819.98	19674.61	17909.18	16333.22
90.0	22473.46	22404.56	21965.36	21250.58	20251.60	17040.33	17040.33	15317.10	13496.56
135.0	22249.55	22482.07	22439.01	22034.25	21336.69	19958.80	18563.68	16901.60	14653.91
180.0	22249.55	21741.45	20871.66	19666.00	17736.95	15962.91	14016.63	12087.58	9762.38
225.0	21982.58	21302.25	18985.66	16728.59	16728.59	14366.36	12397.69	10457.44	8262.29
270.0	22473.46	22266.77	21681.17	20553.02	19278.47	17762.78	15540.93	13637.71	11734.49
315.0	22249.55	21681.17	20596.08	17045.50	17045.50	16161.93	13857.40	11932.65	10029.43
360.0	22249.55	22490.68	22361.50	21870.63	21078.34	19166.51	17156.59	16744.95	15022.58
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	12693.08	10818.28	9045.96	7446.74	6181.66	4950.17	4241.42	3679.93	3224.36
45.0	14585.01	12311.49	10468.55	8746.18	6860.19	5680.37	4784.74	4405.82	4405.82
90.0	11154.14	9338.77	7705.96	5991.34	4996.68	4069.18	3515.44	3070.21	2705.07
135.0	12742.08	10864.70	9099.27	7135.77	5869.83	4888.08	4491.94	4491.94	3022.84
180.0	8083.07	6636.28	5232.55	4388.59	4388.59	3164.08	2795.49	2501.83	2190.08
225.0	6797.41	5361.82	4461.88	3790.16	3263.11	2849.74	2461.35	2202.99	1705.14
270.0	9435.13	7773.05	6377.93	5025.87	4397.21	4397.21	3134.80	2668.90	2369.20
315.0	8306.21	6545.08	5441.91	4617.75	3829.77	3336.31	2851.47	2538.00	2289.11
360.0	12693.08	10818.28	9045.96	7446.74	6181.66	4950.17	4241.42	3679.93	3224.36
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2795.49	2513.88	2237.44	2060.90	1713.41	1713.41	1644.00	1561.84	1475.72
45.0	3009.06	2679.23	2348.53	2146.16	1963.59	1820.63	1684.56	1595.00	1520.08
90.0	2414.85	2128.07	1693.86	1693.86	1665.01	1540.66	1462.98	1397.62	1326.74
135.0	2677.51	2401.07	2131.52	1954.11	1778.43	1665.62	1576.05	1482.18	1423.62
180.0	1990.28	1830.10	1702.65	1576.05	1500.27	1437.40	1390.90	1338.37	1301.34
225.0	1705.14	1648.48	1548.58	1472.54	1403.30	1352.40	1318.39	1274.55	1247.60
270.0	2129.79	1930.86	1748.29	1626.86	1532.99	1439.12	1376.26	1328.89	1281.53
315.0	2085.87	1717.98	1717.98	1639.26	1555.82	1468.84	1408.04	1358.69	1316.15
360.0	2795.49	2513.88	2237.44	2060.90	1713.41	1713.41	1644.00	1561.84	1475.72
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1414.67	1371.52	1326.57	1282.13	1233.82	1169.32	1077.94	943.60	821.66
45.0	1441.71	1387.45	1346.98	1301.34	1266.03	1204.02	1120.49	1019.73	910.36
90.0	1286.18	1233.22	1196.18	1154.85	1068.64	968.83	869.02	767.14	625.13
135.0	1376.26	1321.14	1284.11	1247.08	1192.83	1092.07	990.45	878.49	757.07
180.0	1266.89	1210.05	1128.24	1030.92	892.27	781.18	634.78	506.46	441.87
225.0	1196.70	1118.76	1024.81	919.40	779.37	666.04	556.07	446.35	311.75
270.0	1243.64	1204.88	1156.66	1077.43	978.39	851.80	743.29	632.20	519.38
315.0	1270.50	1232.96	1173.02	1065.28	961.08	813.65	688.95	565.71	418.45
360.0	1414.67	1371.52	1326.57	1282.13	1233.82	1169.32	1077.94	943.60	821.66
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	694.37	532.13	411.39	295.13	175.68	103.34	59.59	41.51	36.26
45.0	765.68	641.67	521.10	434.98	434.98	165.95	98.17	60.97	47.11
90.0	514.47	402.00	299.86	185.59	115.40	71.22	53.57	48.14	42.20
135.0	600.33	476.32	444.46	303.74	137.88	79.06	48.31	42.97	37.72
180.0	441.87	154.84	90.60	56.49	43.32	38.49	31.86	27.21	24.11
225.0	213.40	136.24	79.06	52.96	48.66	42.20	37.38	33.59	32.29
270.0	435.85	435.85	191.01	117.90	66.14	55.03	50.81	44.44	40.13
315.0	308.73	212.80	134.43	67.00	45.38	39.70	34.36	29.37	24.54
360.0	694.37	532.13	411.39	295.13	175.68	103.34	59.59	41.51	36.26

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	30.49	25.58	21.70	20.93	20.32	19.72	18.86	18.26	17.83
45.0	41.08	34.10	29.97	28.16	26.87	25.92	25.15	23.68	22.56
90.0	35.48	32.12	31.17	29.45	28.07	26.96	25.15	23.34	22.65
135.0	30.83	26.70	24.80	23.60	22.13	21.10	20.15	19.29	18.43
180.0	22.99	22.22	21.36	20.58	19.89	19.20	18.77	18.34	17.74
225.0	31.95	30.57	29.45	27.64	26.27	25.32	25.15	24.72	23.68
270.0	36.60	35.48	34.28	33.07	31.52	30.23	28.85	28.25	26.96
315.0	22.82	21.96	21.36	20.58	19.63	18.95	18.34	17.74	17.31
360.0	30.49	25.58	21.70	20.93	20.32	19.72	18.86	18.26	17.83
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.40	17.05	16.79	16.45	16.28	15.76	15.42	14.98	14.47
45.0	21.96	21.79	21.62	20.75	20.24	19.98	19.98	19.63	19.72
90.0	22.30	21.19	20.58	21.10	20.84	20.15	19.46	19.03	18.17
135.0	17.91	17.22	16.62	16.10	15.59	15.33	15.07	14.81	14.47
180.0	17.22	16.88	16.45	16.02	15.50	15.07	14.73	14.21	13.78
225.0	23.60	23.85	24.11	23.68	21.87	21.36	20.15	19.38	18.00
270.0	25.75	24.46	23.94	23.17	22.56	21.01	20.32	19.63	18.26
315.0	16.88	16.45	15.93	15.42	15.07	14.64	14.38	14.04	13.43
360.0	17.40	17.05	16.79	16.45	16.28	15.76	15.42	14.98	14.47
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.21	13.69	13.35	12.92	12.49	11.97	11.63	11.02	10.59
45.0	19.55	18.26	16.53	15.24	14.12	13.09	12.14	11.63	11.20
90.0	16.88	15.24	14.47	13.43	12.66	11.80	11.20	10.76	10.42
135.0	14.30	14.21	14.04	13.43	12.57	11.88	11.02	10.68	10.25
180.0	13.35	12.83	12.40	11.88	11.28	10.85	10.42	10.08	9.56
225.0	16.79	14.38	13.09	12.57	11.45	10.76	10.25	9.99	9.56
270.0	17.31	16.45	15.67	14.12	12.92	12.31	11.71	11.11	10.59
315.0	12.66	12.31	11.97	11.54	11.11	10.76	10.25	9.90	9.56
360.0	14.21	13.69	13.35	12.92	12.49	11.97	11.63	11.02	10.59
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.16	9.82	9.47	9.21	9.04	8.96	8.96	8.78	8.61
45.0	10.76	10.51	10.16	9.82	9.65	9.56	9.39	9.30	9.13
90.0	10.08	9.82	9.56	9.39	9.39	9.21	9.04	8.96	8.87
135.0	9.73	9.47	9.04	8.96	8.87	8.78	8.70	8.61	8.53
180.0	9.30	9.13	9.04	8.96	8.87	8.78	8.70	8.70	8.61
225.0	9.39	9.30	9.13	8.96	8.96	8.78	8.78	8.70	8.70
270.0	10.33	9.90	9.82	9.73	9.65	9.47	9.39	9.30	9.04
315.0	9.21	8.96	8.87	8.78	8.70	8.53	8.53	8.35	8.27
360.0	10.16	9.82	9.47	9.21	9.04	8.96	8.96	8.78	8.61
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.53	8.44	8.35	8.27	8.18	8.10	8.01	7.84	7.75
45.0	9.04	8.96	8.87	8.61	8.44	8.27	8.01	7.92	7.75
90.0	8.70	8.61	8.44	8.35	8.18	8.10	7.84	7.66	7.49
135.0	8.44	8.44	8.35	8.35	8.27	8.27	7.92	7.84	7.66
180.0	8.61	8.61	8.53	8.44	8.01	7.92	7.84	7.66	7.49
225.0	8.70	8.53	8.44	7.92	7.84	7.66	7.49	7.32	7.32
270.0	8.87	8.70	8.53	8.27	8.01	7.84	7.75	7.49	7.32
315.0	8.27	8.10	8.10	7.92	7.84	7.66	7.58	7.41	7.23
360.0	8.53	8.44	8.35	8.27	8.18	8.10	8.01	7.84	7.75

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	7.75
45.0	7.58
90.0	7.41
135.0	7.49
180.0	7.41
225.0	7.32
270.0	7.32
315.0	7.23
360.0	7.75