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NATA

LumCAT: 3-1545-A3
Luminaire: 99.02.73.172+92.76.365.00
Report No: NATA0100
Test No: GC2019011519
LampCAT: CITIZEN CLU720
Lamp flux(lm): 1995.0
Number of Lamps: 1
Length(mm): 84
Phm Type: C

Voltage(V): 35.0000
Current(A): 0.5000
Power (W): 17.5000
PF: 0.0000
Ballast type: DC
Width(mm): 84
Height(mm): 0

Photometric Results

Lumens(lm): 1796.19
Efficiency(%): 90.03%
Lumens(lm)/Power(W): 102.98
Central intensity(cd): 25156.410
Maximum intensity(cd): 25156.410
Angle of maximum intensity: $C=0.0$ $\gamma=0.0$
Beam Angle(50%Imax): [C0/180]Total=10.3
[C90/270]Total=10.3
Field angle(10%Imax): [C0/180]Total=20.0
[C90/270]Total=20.0
Maximum s/h(1/2): C0_180=0.18 C90_270=0.18
Maximum s/h(1/4): C0_180=0.18 C90_270=0.18
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.33%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.412%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	25156.406	6.019	6.019	.302%	.335%
1.0	24572.813	47.029	53.047	2.357%	2.953%
2.0	22869.844	87.525	140.573	4.387%	7.826%
3.0	20031.328	114.964	255.536	5.763%	14.227%
4.0	16253.648	124.333	379.87	6.232%	21.149%
5.0	13182.609	125.994	505.863	6.315%	28.163%
6.0	9276.258	106.331	612.194	5.330%	34.083%
7.0	6909.820	92.345	704.539	4.629%	39.224%
8.0	4874.414	74.393	778.932	3.729%	43.366%
9.0	3472.172	59.564	838.496	2.986%	46.682%
10.0	2517.891	47.947	886.443	2.403%	49.351%
11.0	2058.609	43.075	929.518	2.159%	51.749%
12.0	1619.016	36.913	966.431	1.850%	53.805%
13.0	1375.172	33.923	1000.354	1.700%	55.693%
14.0	1226.876	32.548	1032.902	1.631%	57.505%
15.0	1107.865	31.444	1064.346	1.576%	59.256%
16.0	1028.742	31.095	1095.441	1.559%	60.987%
17.0	965.377	30.952	1126.393	1.551%	62.710%
18.0	910.230	30.845	1157.238	1.546%	64.427%
19.0	864.865	30.877	1188.116	1.548%	66.147%
20.0	827.241	31.027	1219.142	1.555%	67.874%
21.0	794.974	31.242	1250.384	1.566%	69.613%
22.0	766.652	31.494	1281.878	1.579%	71.367%
23.0	741.108	31.755	1313.633	1.592%	73.134%
24.0	719.276	32.082	1345.715	1.608%	74.921%
25.0	700.144	32.448	1378.163	1.626%	76.727%
26.0	684.886	32.924	1411.086	1.650%	78.560%
27.0	670.901	33.401	1444.487	1.674%	80.420%
28.0	658.005	33.876	1478.363	1.698%	82.306%
29.0	645.989	34.344	1512.707	1.721%	84.218%
30.0	634.043	34.765	1547.472	1.743%	86.153%
31.0	622.702	35.170	1582.642	1.763%	88.111%
32.0	604.898	35.152	1617.793	1.762%	90.068%
33.0	567.345	33.885	1651.678	1.698%	91.955%
34.0	500.576	30.696	1682.374	1.539%	93.664%
35.0	407.173	25.611	1707.985	1.284%	95.089%
36.0	306.921	19.783	1727.768	.992%	96.191%
37.0	206.501	13.628	1741.396	.683%	96.950%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	113.498	7.663	1749.059	.384%	97.376%
39.0	57.923	3.997	1753.056	.200%	97.599%
40.0	32.013	2.257	1755.313	.113%	97.724%
41.0	24.026	1.729	1757.042	.087%	97.821%
42.0	20.813	1.527	1758.569	.077%	97.906%
43.0	17.677	1.322	1759.891	.066%	97.979%
44.0	14.597	1.112	1761.003	.056%	98.041%
45.0	12.565	0.974	1761.977	.049%	98.095%
46.0	10.547	0.832	1762.809	.042%	98.142%
47.0	9.879	0.792	1763.601	.040%	98.186%
48.0	9.633	0.785	1764.386	.039%	98.229%
49.0	9.408	0.779	1765.165	.039%	98.273%
50.0	9.211	0.774	1765.939	.039%	98.316%
51.0	9.035	0.770	1766.709	.039%	98.359%
52.0	8.852	0.765	1767.474	.038%	98.401%
53.0	8.712	0.763	1768.237	.038%	98.444%
54.0	8.564	0.760	1768.996	.038%	98.486%
55.0	8.423	0.757	1769.753	.038%	98.528%
56.0	8.311	0.756	1770.509	.038%	98.570%
57.0	8.198	0.754	1771.263	.038%	98.612%
58.0	8.107	0.754	1772.017	.038%	98.654%
59.0	8.002	0.752	1772.769	.038%	98.696%
60.0	7.924	0.753	1773.521	.038%	98.738%
61.0	7.840	0.752	1774.273	.038%	98.780%
62.0	7.770	0.752	1775.025	.038%	98.822%
63.0	7.699	0.752	1775.778	.038%	98.864%
64.0	7.650	0.754	1776.532	.038%	98.906%
65.0	7.580	0.753	1777.285	.038%	98.948%
66.0	7.523	0.754	1778.039	.038%	98.990%
67.0	7.467	0.754	1778.792	.038%	99.032%
68.0	7.446	0.757	1779.55	.038%	99.074%
69.0	7.390	0.757	1780.306	.038%	99.116%
70.0	7.369	0.759	1781.065	.038%	99.158%
71.0	7.355	0.763	1781.828	.038%	99.201%
72.0	7.327	0.764	1782.592	.038%	99.243%
73.0	7.291	0.765	1783.357	.038%	99.286%
74.0	7.277	0.767	1784.124	.038%	99.328%
75.0	7.263	0.769	1784.893	.039%	99.371%

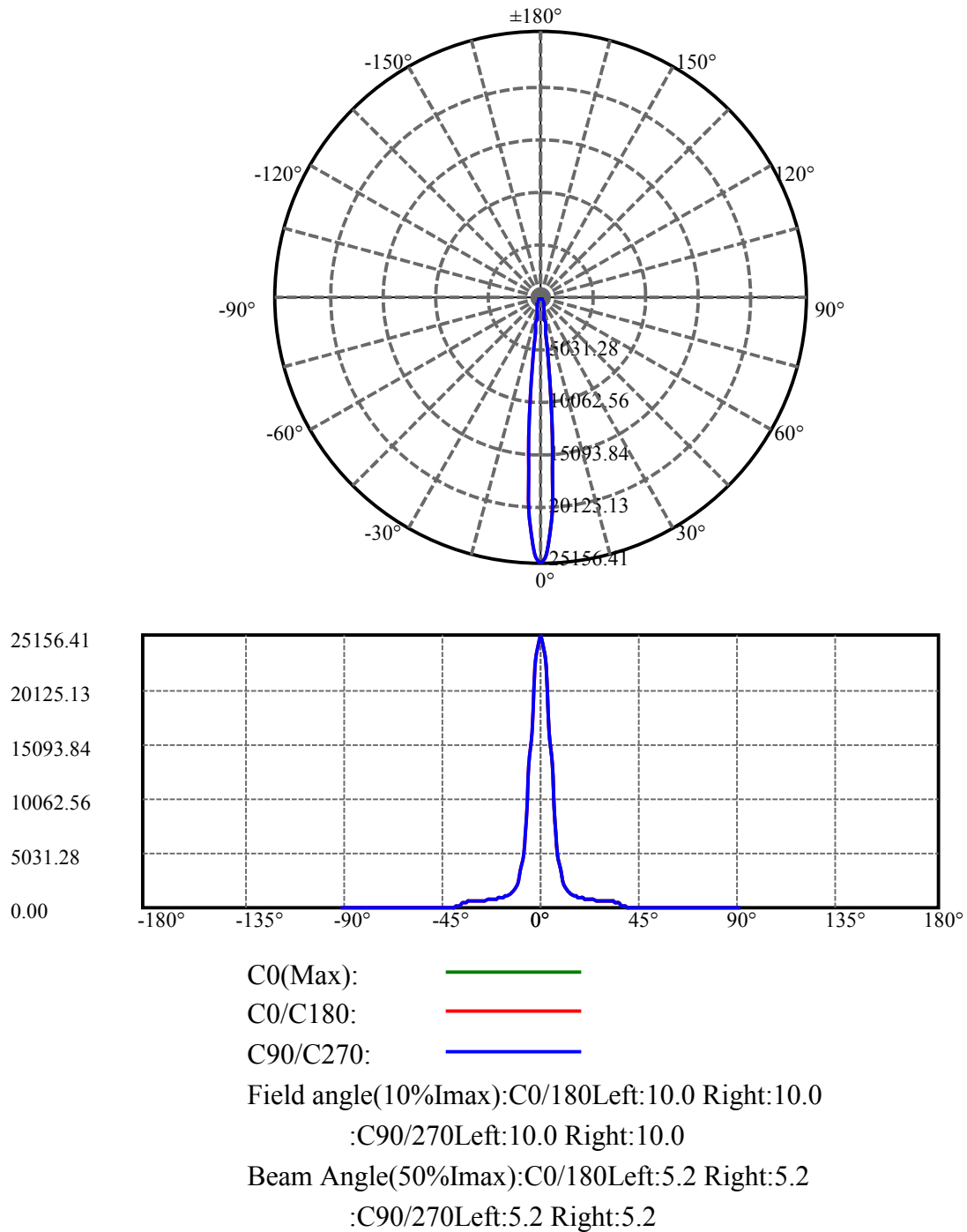
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.256	0.772	1785.665	.039%	99.414%
77.0	7.242	0.774	1786.439	.039%	99.457%
78.0	7.228	0.775	1787.215	.039%	99.500%
79.0	7.207	0.776	1787.99	.039%	99.544%
80.0	7.179	0.775	1788.766	.039%	99.587%
81.0	7.186	0.778	1789.544	.039%	99.630%
82.0	7.186	0.780	1790.324	.039%	99.674%
83.0	7.172	0.781	1791.105	.039%	99.717%
84.0	7.179	0.783	1791.888	.039%	99.761%
85.0	7.172	0.783	1792.671	.039%	99.804%
86.0	7.179	0.785	1793.457	.039%	99.848%
87.0	7.144	0.782	1794.239	.039%	99.891%
88.0	7.116	0.780	1795.019	.039%	99.935%
89.0	7.109	0.779	1795.798	.039%	99.978%
90.0	7.109	0.390	1796.188	.020%	100.000%

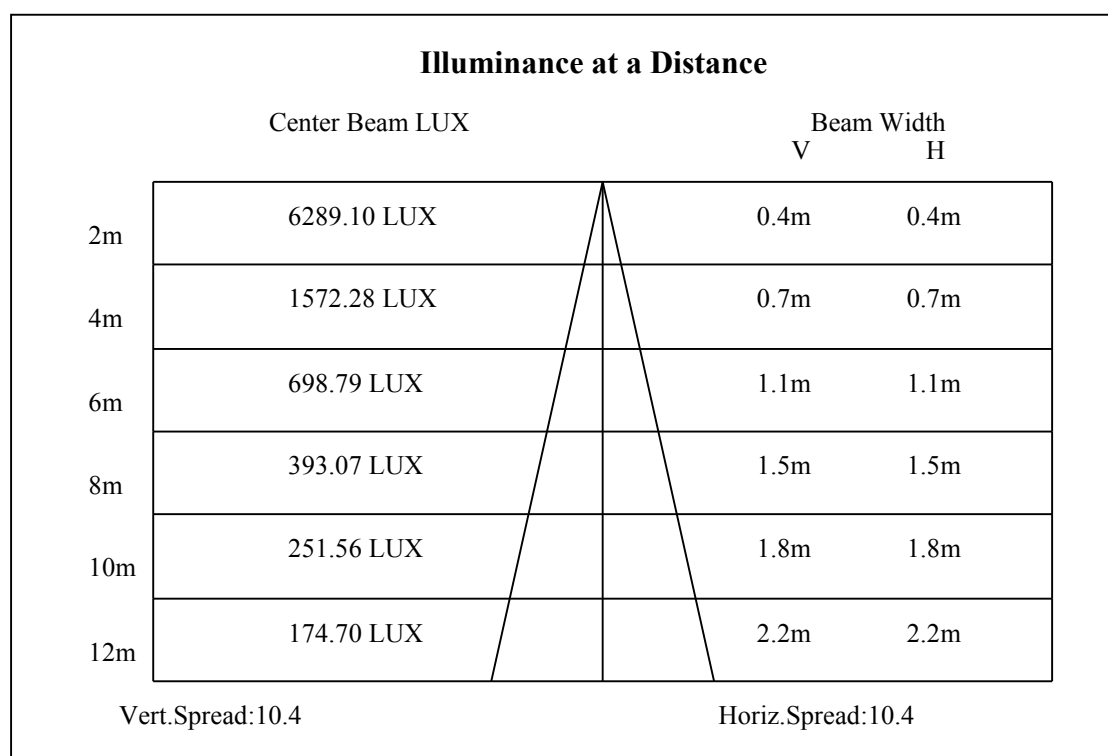
ZONAL LUMEN SUMMARY

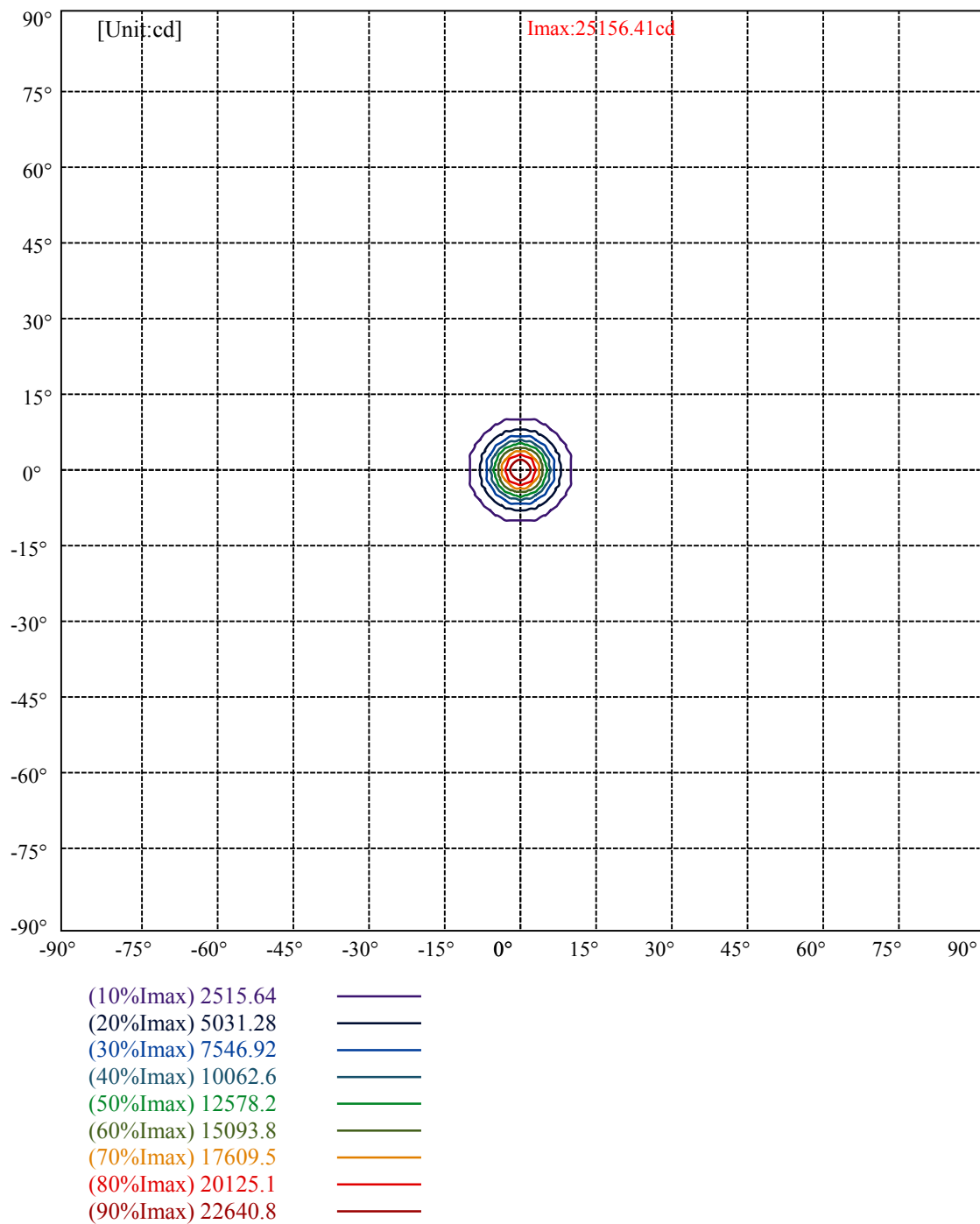
Zone	Lumens	%Lamp	%Fixt
0-30	1547.47	77.57%	86.15%
0-40	1755.31	87.99%	97.72%
0-60	1773.52	88.90%	98.74%
0-90	1795.80	90.01%	99.98%
0-120	1795.80	90.01%	99.98%
0-180	1796.19	90.03%	100.00%
60-90	23.03	1.15%	1.28%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.77	1436.95	72.03%	80.00%

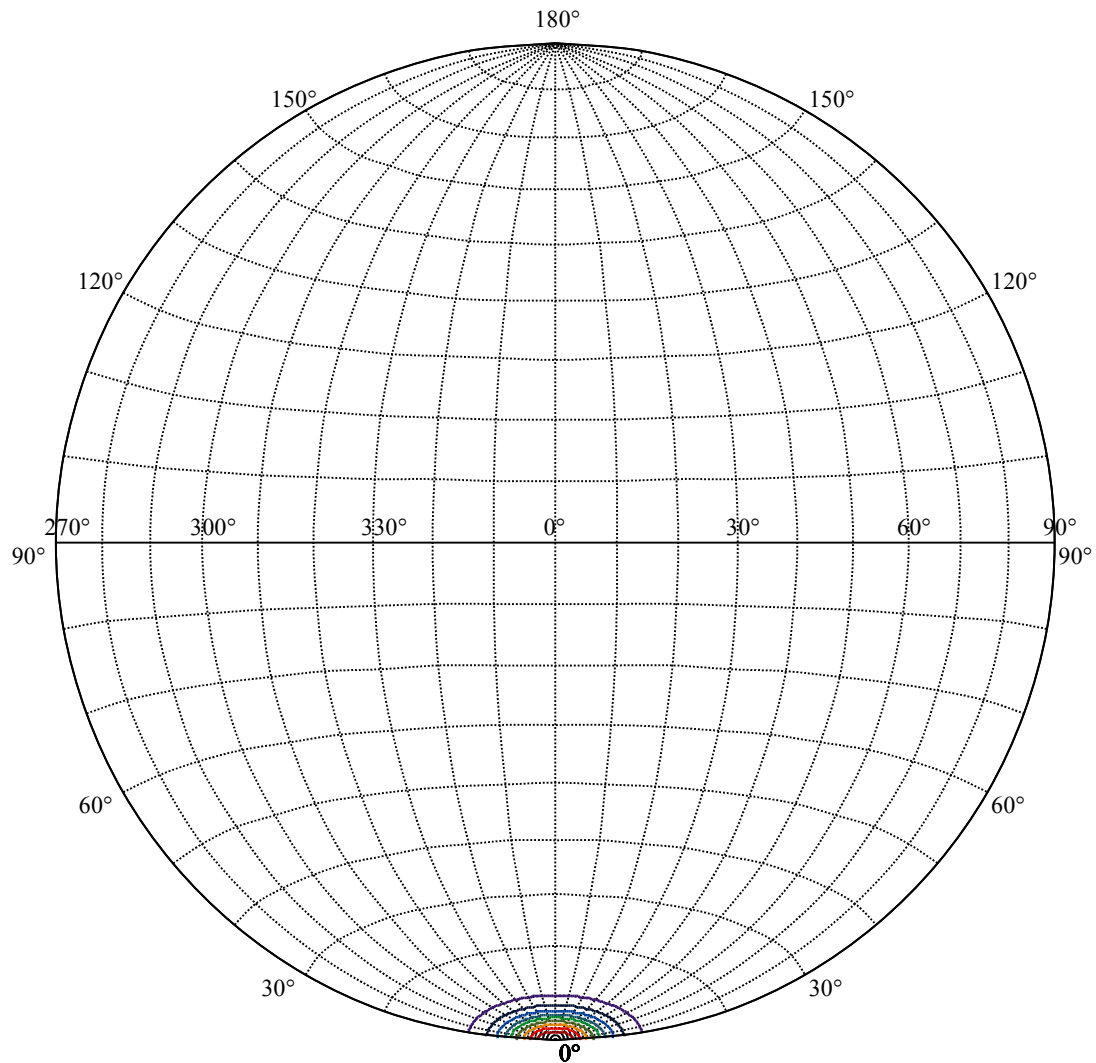
ZONAL LUMEN SUMMARY

0-10	886.44
10-20	332.70
20-30	328.33
30-40	207.84
40-50	10.63
50-60	7.58
60-70	7.54
70-80	7.70
80-90	7.03
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









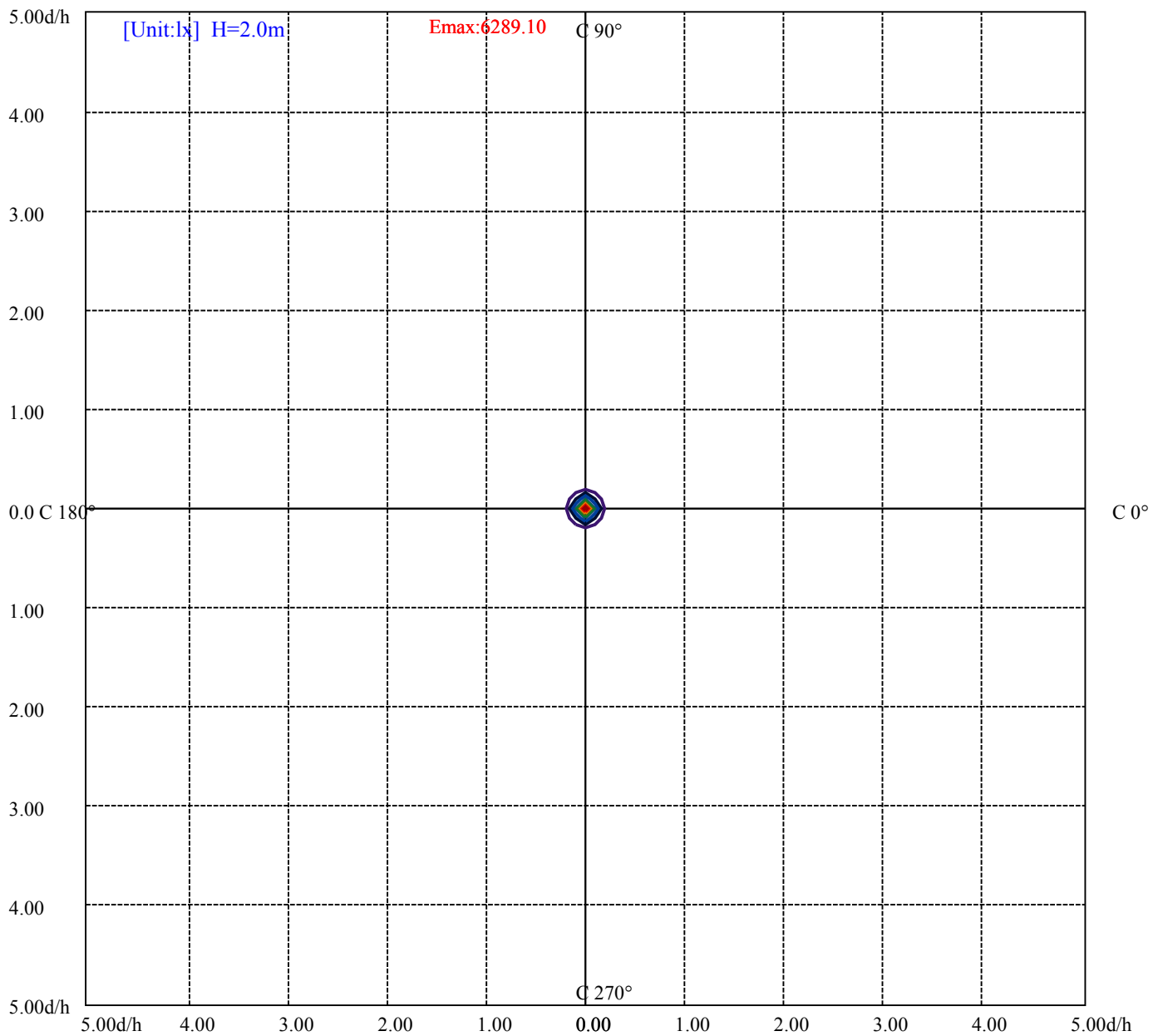
House

[Unit:cd]

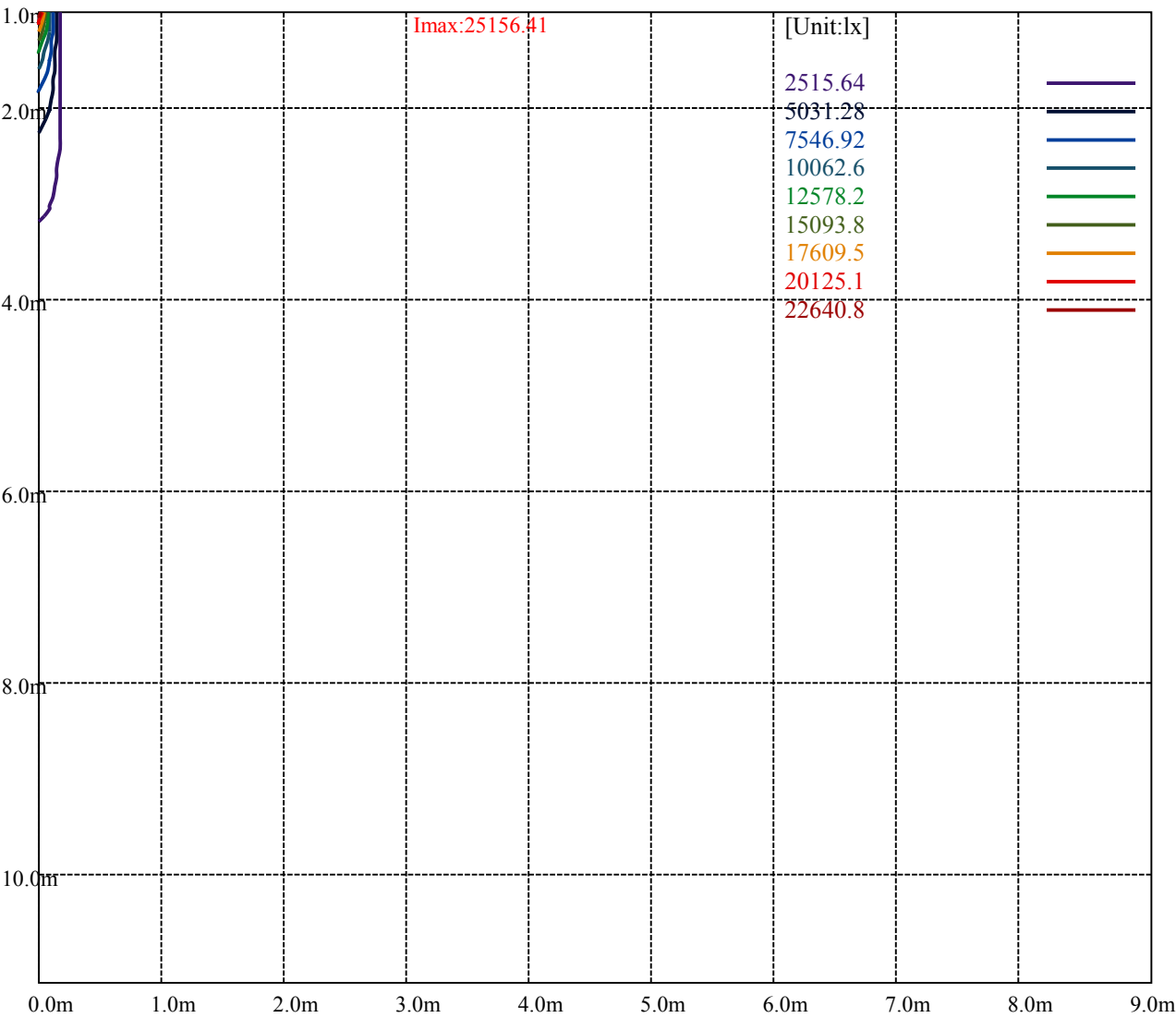
Road

Imax:25156.41

(10%Imax)	2515.64	—
(20%Imax)	5031.28	—
(30%Imax)	7546.92	—
(40%Imax)	10062.6	—
(50%Imax)	12578.2	—
(60%Imax)	15093.8	—
(70%Imax)	17609.5	—
(80%Imax)	20125.1	—
(90%Imax)	22640.8	—



(10%Emax)	628.9075	
(20%Emax)	1257.815	
(30%Emax)	1886.725	
(40%Emax)	2515.625	
(50%Emax)	3144.55	
(60%Emax)	3773.45	
(70%Emax)	4402.35	
(80%Emax)	5031.275	
(90%Emax)	5660.175	



Luminance Table

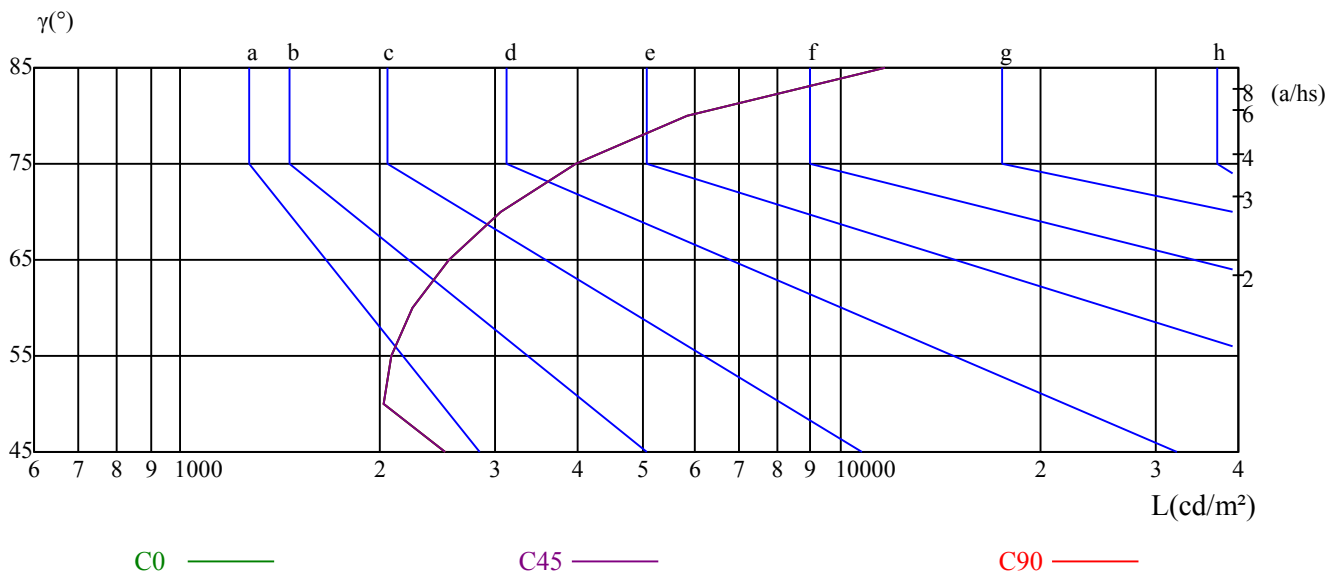
γ	45	50	55	60	65	70	75	80	85
C0	2518	2031	2081	2246	2542	3053	3977	5859	11662
C45	2518	2031	2081	2246	2542	3053	3977	5859	11662
C90	2518	2031	2081	2246	2542	3053	3977	5859	11662

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2542	2542	2542	3977	3977	3977	11662	11662	11662

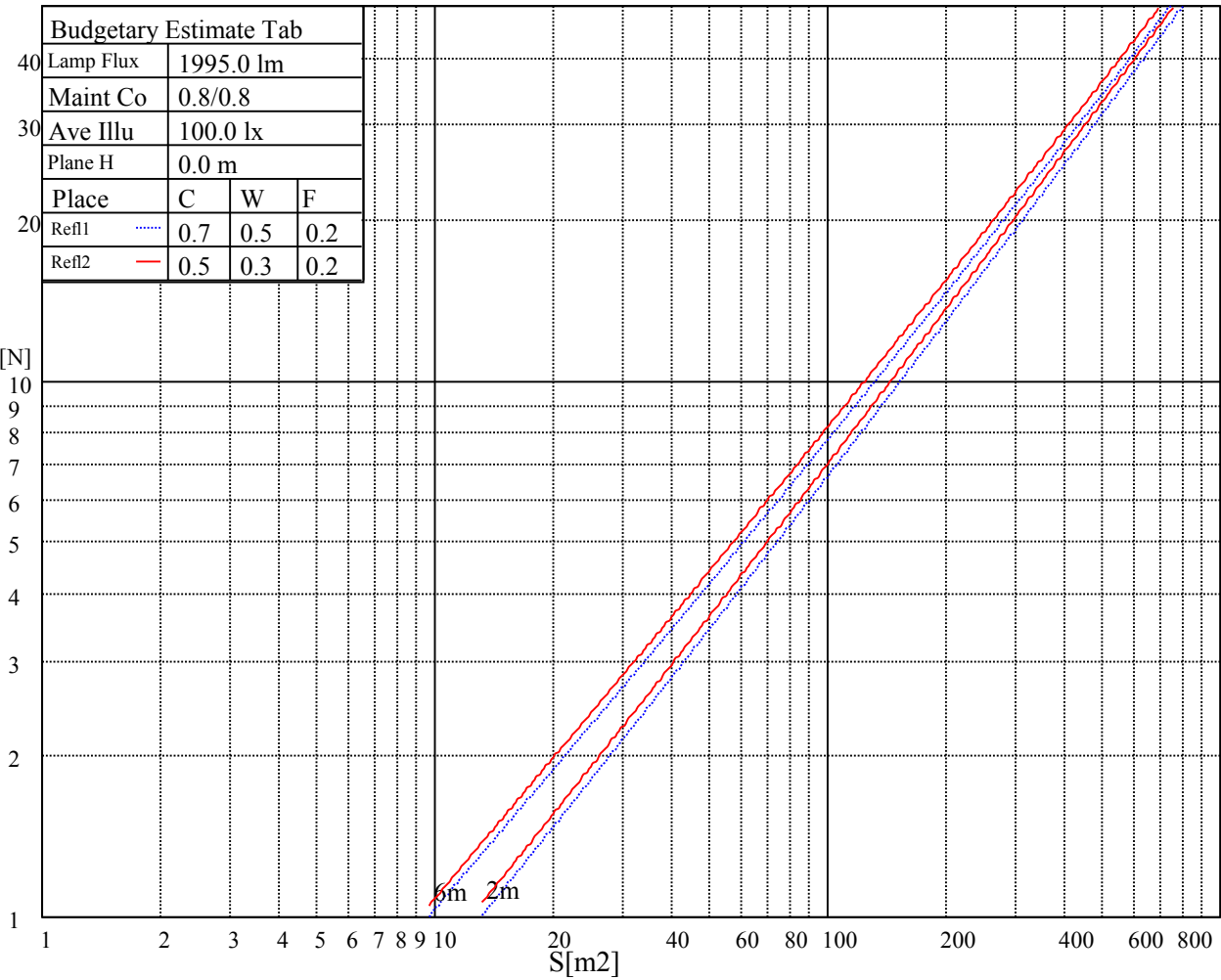
Glare Table

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

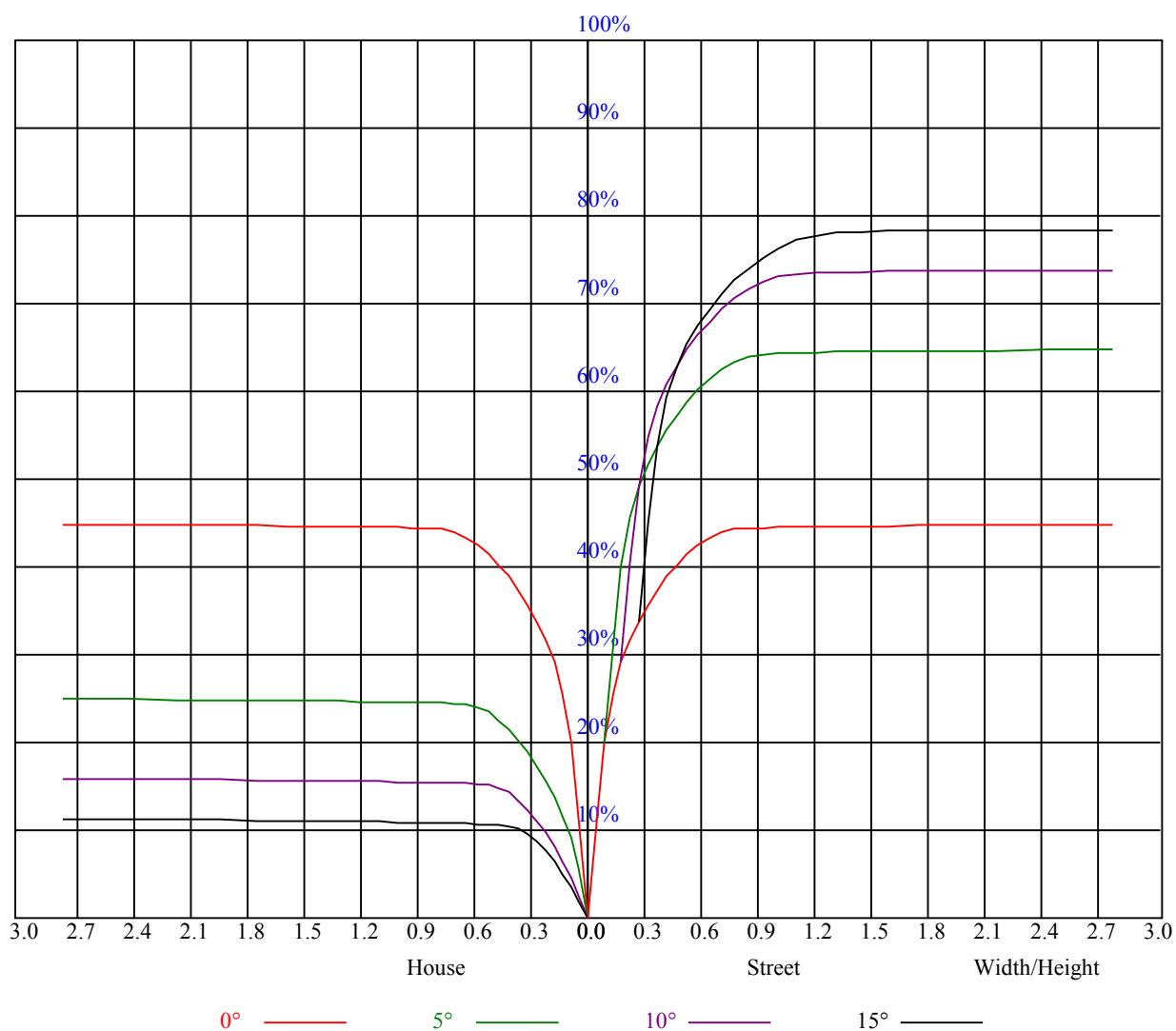
Luminance Limiting Curve



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	1.30	2.20	1.66	2.51	2.83	1.28	2.19	1.65	2.50	2.82
	3H	4.38	5.18	4.76	5.51	5.88	4.37	5.17	4.75	5.50	5.87
	4H	6.11	6.85	6.52	7.20	7.59	6.08	6.82	6.49	7.17	7.56
	6H	8.05	8.72	8.47	9.10	9.50	8.03	8.70	8.45	9.08	9.47
	8H	9.13	9.77	9.57	10.16	10.57	9.11	9.74	9.55	10.14	10.55
	12H	10.91	11.51	11.34	11.89	12.33	10.88	11.48	11.31	11.86	12.30
4H	2H	2.16	2.89	2.56	3.25	3.64	2.15	2.88	2.55	3.24	3.63
	3H	5.51	6.11	5.92	6.52	6.93	5.50	6.10	5.91	6.51	6.92
	4H	7.42	7.96	7.86	8.38	8.83	7.38	7.92	7.82	8.35	8.80
	6H	9.53	9.99	10.00	10.44	10.92	9.50	9.96	9.97	10.41	10.89
	8H	10.71	11.14	11.19	11.59	12.07	10.68	11.11	11.16	11.57	12.04
	12H	12.38	12.75	12.87	13.24	13.71	12.35	12.72	12.84	13.21	13.68
8H	4H	8.13	8.56	8.61	9.01	9.49	8.10	8.53	8.58	8.99	9.46
	6H	10.52	10.86	11.03	11.36	11.85	10.50	10.83	11.01	11.34	11.83
	8H	11.89	12.19	12.43	12.72	13.21	11.87	12.17	12.41	12.69	13.19
	12H	13.70	13.95	14.22	14.45	15.04	13.67	13.93	14.20	14.43	15.01
12H	4H	8.34	8.70	8.83	9.19	9.67	8.31	8.68	8.80	9.17	9.65
	6H	11.02	11.13	11.37	11.61	12.16	11.00	11.11	11.35	11.59	12.14
	8H	12.34	12.60	12.87	13.10	13.68	12.32	12.58	12.85	13.08	13.66
Variation with the observer position at spacings:											
S = 1.0H		5.9/-7.7					5.9/-7.7				
S = 1.5H		8.1/-5.8					8.1/-5.8				
S = 2.0H		9.5/-4.3					9.5/-4.3				
Standard tables:		BK3					BK3				
Uncorrected UGR		-0.6					-0.6				



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	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.08	1.08	1.08	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.98	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.88	0.86
2	0.96	0.93	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.87	0.86	0.84	0.83
3	0.92	0.89	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.84	0.83	0.85	0.83	0.81	0.80
4	0.88	0.85	0.82	0.87	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.79	0.78
5	0.85	0.81	0.78	0.84	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.76	0.75
6	0.82	0.78	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.78	0.76	0.74	0.73
7	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.76	0.74	0.72	0.71
8	0.77	0.73	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.72	0.70	0.69
9	0.75	0.71	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.73	0.70	0.68	0.67
10	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.71	0.69	0.67	0.66



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Intensity data(cd)										Appendix Page: 17 Total:19	
C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0		
0.0	25695.00	24328.13	22050.00	18523.13	15046.88	11160.00	7745.63	5416.88	3813.75		
45.0	24918.75	23180.63	20160.00	16486.88	13089.38	9472.50	6423.75	4280.63	3200.63		
90.0	24795.00	23450.63	20823.75	17381.25	11122.31	10335.94	7452.00	4766.06	3390.19		
135.0	25216.88	25278.75	24232.50	21853.13	18928.13	15204.38	11441.25	8398.13	5962.50		
180.0	25695.00	25773.75	24766.88	22426.88	19046.25	15637.50	10908.56	8253.00	5819.06		
225.0	24918.75	25621.88	25138.13	23371.88	20446.88	17190.00	10869.75	10092.94	6978.38		
270.0	24795.00	25115.63	24238.13	22055.63	19203.75	15468.75	11722.50	8690.63	6187.50		
315.0	25216.88	23833.13	21549.38	18151.88	13145.63	10991.81	7646.63	5380.31	3643.31		
360.0	25695.00	24328.13	22050.00	18523.13	15046.88	11160.00	7745.63	5416.88	3813.75		
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0		
0.0	2891.25	2041.88	1673.44	1428.75	1229.63	1117.69	1029.94	955.69	915.19		
45.0	2857.50	1818.00	1528.31	1316.25	1177.31	1083.38	999.56	939.38	899.44		
90.0	2520.00	1891.13	1588.50	1387.13	1190.25	1118.48	1037.76	967.16	895.22		
135.0	3898.13	2857.50	2460.94	1791.00	1468.13	1305.56	1177.31	1076.63	999.56		
180.0	3947.63	3010.50	2189.25	1790.44	1504.69	1320.75	1108.69	1108.69	1021.61		
225.0	4935.94	3562.88	2506.50	1996.88	1664.44	1403.44	1265.63	1121.79	1051.59		
270.0	4038.75	2975.63	2880.00	1829.81	1526.63	1349.44	1211.06	1109.81	1037.81		
315.0	2688.19	1985.63	1641.94	1411.88	1240.31	1116.28	1032.98	950.79	902.59		
360.0	2891.25	2041.88	1673.44	1428.75	1229.63	1117.69	1029.94	955.69	915.19		
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
0.0	882.56	851.06	821.25	795.38	767.81	745.88	723.38	704.25	690.75		
45.0	861.75	833.63	802.13	774.56	750.94	725.63	703.13	685.69	672.19		
90.0	853.48	820.52	788.46	763.88	739.07	716.79	698.46	680.79	665.94		
135.0	927.00	883.13	840.94	804.38	774.00	745.88	721.13	701.44	685.13		
180.0	942.53	874.63	828.06	787.73	754.82	730.86	711.56	691.54	678.09		
225.0	981.73	923.63	873.56	837.84	801.84	769.11	743.40	719.04	699.08		
270.0	965.25	901.69	857.25	818.44	789.75	763.31	740.25	722.25	704.25		
315.0	867.54	830.64	806.29	777.60	754.99	731.42	712.91	696.15	683.66		
360.0	882.56	851.06	821.25	795.38	767.81	745.88	723.38	704.25	690.75		
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0		
0.0	677.25	663.19	651.94	640.13	628.88	612.56	560.81	453.94	355.50		
45.0	656.44	643.50	632.25	619.88	606.94	567.56	483.75	393.19	291.38		
90.0	654.64	639.45	626.96	616.61	607.05	579.88	511.48	423.51	301.78		
135.0	667.69	655.88	644.06	632.25	619.31	609.75	599.06	542.81	461.81		
180.0	666.62	654.30	642.99	631.74	619.65	607.95	596.93	541.46	467.38		
225.0	684.45	672.24	659.81	647.10	636.75	622.97	614.25	595.01	528.02		
270.0	689.06	677.25	666.00	650.81	638.44	628.88	618.19	581.63	505.13		
315.0	671.06	658.24	643.89	633.83	624.60	609.64	554.29	473.06	346.39		
360.0	677.25	663.19	651.94	640.13	628.88	612.56	560.81	453.94	355.50		
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	291.38	141.13	56.36	28.58	24.92	22.33	18.62	16.37	14.06		
45.0	167.18	88.88	37.29	26.78	24.02	20.19	16.88	14.74	10.91		
90.0	205.20	119.08	44.27	27.79	24.08	19.91	16.76	14.40	10.97		
135.0	363.94	285.75	141.13	71.04	31.05	23.74	20.25	15.86	13.44		
180.0	361.07	249.58	159.47	71.49	33.13	24.30	21.21	16.88	14.29		
225.0	429.02	326.14	224.04	123.13	54.39	30.09	27.06	23.23	18.96		
270.0	398.81	296.44	181.01	84.94	39.94	30.21	27.11	23.57	20.64		
315.0	238.78	145.01	64.41	29.64	24.58	21.43	18.62	16.37	13.50		
360.0	291.38	141.13	56.36	28.58	24.92	22.33	18.62	16.37	14.06		

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	10.24	9.84	9.62	9.39	9.23	9.00	8.89	8.66	8.55
45.0	10.07	9.79	9.62	9.39	9.23	9.06	8.89	8.72	8.61
90.0	10.18	9.90	9.62	9.39	9.23	9.06	8.89	8.72	8.61
135.0	11.76	10.18	9.90	9.68	9.45	9.28	9.11	8.89	8.78
180.0	12.49	10.35	10.07	9.84	9.56	9.34	9.11	9.00	8.83
225.0	16.88	13.22	10.29	10.01	9.73	9.51	9.34	9.11	8.94
270.0	18.56	11.03	10.18	9.96	9.62	9.45	9.23	9.00	8.83
315.0	10.35	10.07	9.73	9.39	9.23	9.00	8.83	8.72	8.55
360.0	10.24	9.84	9.62	9.39	9.23	9.00	8.89	8.66	8.55
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	8.44	8.27	8.21	8.10	7.99	7.93	7.82	7.76	7.71
45.0	8.44	8.33	8.21	8.10	8.04	7.93	7.88	7.82	7.71
90.0	8.44	8.33	8.21	8.10	8.04	7.93	7.88	7.76	7.71
135.0	8.61	8.49	8.38	8.27	8.16	8.04	7.99	7.88	7.82
180.0	8.66	8.49	8.38	8.27	8.16	8.04	7.99	7.88	7.82
225.0	8.83	8.66	8.49	8.33	8.27	8.16	8.04	7.99	7.88
270.0	8.72	8.55	8.44	8.33	8.21	8.10	7.99	7.88	7.82
315.0	8.38	8.27	8.16	8.10	7.99	7.88	7.82	7.76	7.71
360.0	8.44	8.27	8.21	8.10	7.99	7.93	7.82	7.76	7.71
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.65	7.59	7.54	7.48	7.43	7.43	7.31	7.37	7.31
45.0	7.71	7.59	7.54	7.48	7.43	7.43	7.37	7.37	7.37
90.0	7.65	7.59	7.54	7.48	7.43	7.43	7.37	7.37	7.37
135.0	7.71	7.71	7.59	7.59	7.48	7.43	7.43	7.37	7.37
180.0	7.71	7.65	7.59	7.54	7.48	7.48	7.43	7.37	7.37
225.0	7.76	7.76	7.65	7.59	7.54	7.48	7.43	7.43	7.37
270.0	7.76	7.71	7.65	7.59	7.54	7.48	7.43	7.37	7.37
315.0	7.65	7.59	7.54	7.43	7.43	7.43	7.37	7.31	7.31
360.0	7.65	7.59	7.54	7.48	7.43	7.43	7.31	7.37	7.31
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.31	7.26	7.26	7.20	7.26	7.26	7.20	7.20	7.14
45.0	7.31	7.31	7.26	7.26	7.26	7.26	7.20	7.20	7.20
90.0	7.31	7.31	7.26	7.26	7.26	7.20	7.20	7.20	7.14
135.0	7.31	7.31	7.31	7.31	7.26	7.20	7.26	7.20	7.20
180.0	7.31	7.26	7.26	7.26	7.26	7.20	7.20	7.20	7.20
225.0	7.37	7.31	7.31	7.26	7.26	7.26	7.26	7.26	7.14
270.0	7.37	7.31	7.31	7.31	7.26	7.31	7.26	7.20	7.20
315.0	7.31	7.26	7.26	7.26	7.26	7.26	7.26	7.20	7.20
360.0	7.31	7.26	7.26	7.20	7.26	7.26	7.20	7.20	7.14
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.14	7.20	7.14	7.14	7.14	7.14	7.09	7.09	7.09
45.0	7.20	7.20	7.14	7.20	7.26	7.26	7.14	7.09	7.09
90.0	7.20	7.14	7.20	7.14	7.20	7.26	7.14	7.14	7.09
135.0	7.20	7.20	7.14	7.20	7.14	7.14	7.14	7.14	7.14
180.0	7.14	7.20	7.14	7.14	7.14	7.14	7.09	7.09	7.09
225.0	7.20	7.14	7.14	7.20	7.14	7.20	7.26	7.14	7.14
270.0	7.20	7.20	7.26	7.20	7.20	7.14	7.14	7.14	7.14
315.0	7.20	7.20	7.20	7.20	7.14	7.14	7.14	7.09	7.09
360.0	7.14	7.20	7.14	7.14	7.14	7.14	7.09	7.09	7.09

Intensity data(cd)

Appendix Page: 19 Total:19

C/ $\gamma(^{\circ})$	90.0
0.0	7.14
45.0	7.09
90.0	7.14
135.0	7.09
180.0	7.09
225.0	7.09
270.0	7.09
315.0	7.14
360.0	7.14