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## NATA

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LumCAT: 1761-A	
Luminaire: 99.02.73.171	
Report No: NATA0100	Voltage(V): 36.5000
Test No: GC2018101502	Current(A): 0.4000
LampCAT: CITIZEN CLU028-1203C4	Power (W): 14.6000
Lamp flux(lm): 1490.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 46	Width(mm): 46
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1267.82  
Efficiency(%): 85.09%  
Lumens(lm)/Power(W): 86.96  
Central intensity(cd): 7446.657  
Maximum intensity(cd): 7446.657  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=15.6  
                                  [C90/270]Total=15.6  
Field angle(10%Imax): [C0/180]Total=47.7  
                                  [C90/270]Total=47.7  
Maximum s/h(1/2): C0\_180=0.27 C90\_270=0.27  
Maximum s/h(1/4): C0\_180=0.34 C90\_270=0.34  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 85.20%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.420%

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Equipment:  
Temperature(°C): 25.0

Date: 2018/10/15  
Humidity(%): 60.0%

Operator: NT07  
Distance(m): 7.50

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7446.656	1.782	1.782	.120%	.141%
1.0	7381.266	14.127	15.908	.948%	1.255%
2.0	7174.547	27.458	43.366	1.843%	3.421%
3.0	6784.523	38.938	82.304	2.613%	6.492%
4.0	6225.047	47.619	129.923	3.196%	10.248%
5.0	5576.273	53.296	183.218	3.577%	14.451%
6.0	4793.695	54.949	238.167	3.688%	18.786%
7.0	4136.484	55.281	293.448	3.710%	23.146%
8.0	3614.414	55.163	348.611	3.702%	27.497%
9.0	3146.906	53.984	402.595	3.623%	31.755%
10.0	2781.070	52.958	455.553	3.554%	35.932%
11.0	2517.469	52.676	508.23	3.535%	40.087%
12.0	2289.656	52.204	560.433	3.504%	44.205%
13.0	2085.188	51.438	611.871	3.452%	48.262%
14.0	1921.430	50.974	662.846	3.421%	52.283%
15.0	1770.609	50.254	713.1	3.373%	56.246%
16.0	1632.516	49.345	762.445	3.312%	60.139%
17.0	1500.750	48.117	810.562	3.229%	63.934%
18.0	1384.523	46.917	857.479	3.149%	67.634%
19.0	1277.388	45.605	903.085	3.061%	71.232%
20.0	1169.641	43.869	946.953	2.944%	74.692%
21.0	1076.822	42.318	989.271	2.840%	78.030%
22.0	974.728	40.042	1029.313	2.687%	81.188%
23.0	857.018	36.721	1066.034	2.465%	84.084%
24.0	725.562	32.362	1098.397	2.172%	86.637%
25.0	608.210	28.187	1126.584	1.892%	88.860%
26.0	496.884	23.886	1150.47	1.603%	90.744%
27.0	390.326	19.432	1169.903	1.304%	92.277%
28.0	293.639	15.117	1185.02	1.015%	93.469%
29.0	230.224	12.240	1197.26	.821%	94.435%
30.0	162.956	8.935	1206.195	.600%	95.140%
31.0	126.422	7.140	1213.335	.479%	95.703%
32.0	97.629	5.673	1219.008	.381%	96.150%
33.0	74.939	4.476	1223.484	.300%	96.503%
34.0	56.925	3.491	1226.975	.234%	96.779%
35.0	39.143	2.462	1229.437	.165%	96.973%
36.0	26.733	1.723	1231.16	.116%	97.109%
37.0	19.055	1.258	1232.418	.084%	97.208%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	15.279	1.032	1233.449	.069%	97.289%
39.0	13.556	0.936	1234.385	.063%	97.363%
40.0	12.572	0.886	1235.271	.059%	97.433%
41.0	11.770	0.847	1236.118	.057%	97.500%
42.0	11.102	0.815	1236.932	.055%	97.564%
43.0	10.547	0.789	1237.721	.053%	97.626%
44.0	10.160	0.774	1238.495	.052%	97.687%
45.0	9.851	0.764	1239.259	.051%	97.748%
46.0	9.548	0.753	1240.012	.051%	97.807%
47.0	9.281	0.744	1240.756	.050%	97.866%
48.0	8.993	0.733	1241.489	.049%	97.924%
49.0	8.698	0.720	1242.209	.048%	97.980%
50.0	8.374	0.703	1242.913	.047%	98.036%
51.0	8.107	0.691	1243.604	.046%	98.090%
52.0	7.868	0.680	1244.283	.046%	98.144%
53.0	7.671	0.672	1244.955	.045%	98.197%
54.0	7.495	0.665	1245.62	.045%	98.249%
55.0	7.369	0.662	1246.282	.044%	98.302%
56.0	7.200	0.655	1246.937	.044%	98.353%
57.0	7.045	0.648	1247.585	.043%	98.404%
58.0	6.898	0.641	1248.226	.043%	98.455%
59.0	6.771	0.636	1248.863	.043%	98.505%
60.0	6.623	0.629	1249.492	.042%	98.555%
61.0	6.518	0.625	1250.117	.042%	98.604%
62.0	6.413	0.621	1250.738	.042%	98.653%
63.0	6.328	0.618	1251.356	.041%	98.702%
64.0	6.265	0.617	1251.973	.041%	98.750%
65.0	6.223	0.618	1252.592	.042%	98.799%
66.0	6.195	0.621	1253.213	.042%	98.848%
67.0	6.180	0.624	1253.836	.042%	98.897%
68.0	6.145	0.625	1254.461	.042%	98.947%
69.0	6.124	0.627	1255.088	.042%	98.996%
70.0	6.089	0.627	1255.716	.042%	99.046%
71.0	6.061	0.628	1256.344	.042%	99.095%
72.0	6.033	0.629	1256.973	.042%	99.145%
73.0	5.998	0.629	1257.602	.042%	99.194%
74.0	5.984	0.631	1258.233	.042%	99.244%
75.0	5.948	0.630	1258.863	.042%	99.294%

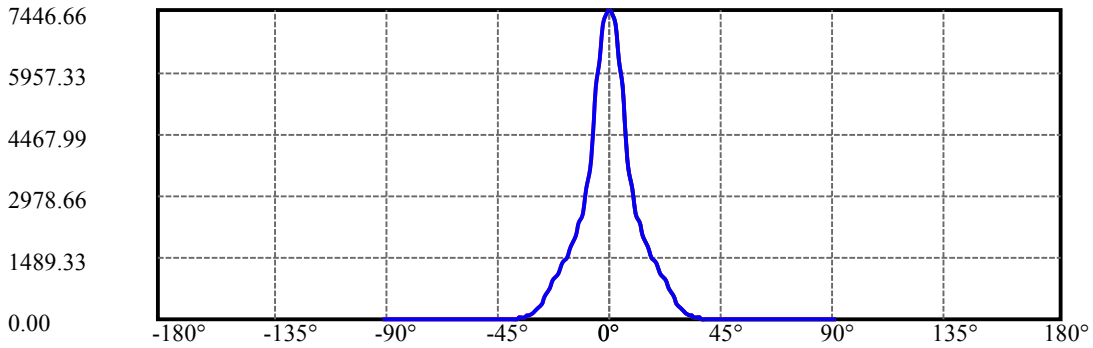
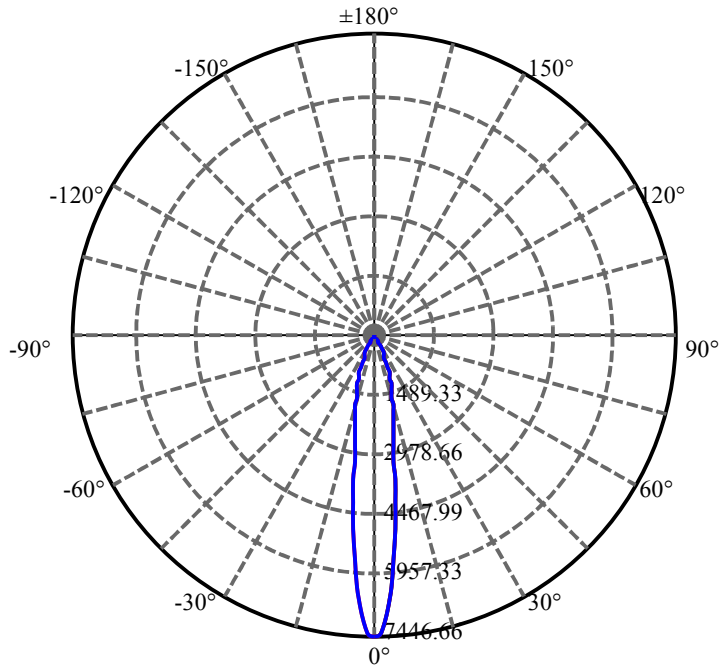
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.899	0.628	1259.491	.042%	99.343%
77.0	5.871	0.627	1260.118	.042%	99.393%
78.0	5.843	0.627	1260.745	.042%	99.442%
79.0	5.836	0.628	1261.373	.042%	99.492%
80.0	5.801	0.626	1262	.042%	99.541%
81.0	5.773	0.625	1262.625	.042%	99.591%
82.0	5.730	0.622	1263.247	.042%	99.640%
83.0	5.681	0.618	1263.865	.042%	99.688%
84.0	5.660	0.617	1264.483	.041%	99.737%
85.0	5.618	0.614	1265.096	.041%	99.786%
86.0	5.583	0.611	1265.707	.041%	99.834%
87.0	5.527	0.605	1266.312	.041%	99.881%
88.0	5.513	0.604	1266.917	.041%	99.929%
89.0	5.477	0.601	1267.517	.040%	99.976%
90.0	5.435	0.298	1267.815	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1206.19	80.95%	95.14%
0-40	1235.27	82.90%	97.43%
0-60	1249.49	83.86%	98.55%
0-90	1267.52	85.07%	99.98%
0-120	1267.52	85.07%	99.98%
0-180	1267.82	85.09%	100.00%
60-90	18.65	1.25%	1.47%
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%
0-21.62	1014.25	68.07%	80.00%

ZONAL LUMEN SUMMARY

0-10	455.55
10-20	491.40
20-30	259.24
30-40	29.08
40-50	7.64
50-60	6.58
60-70	6.22
70-80	6.28
80-90	5.52
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

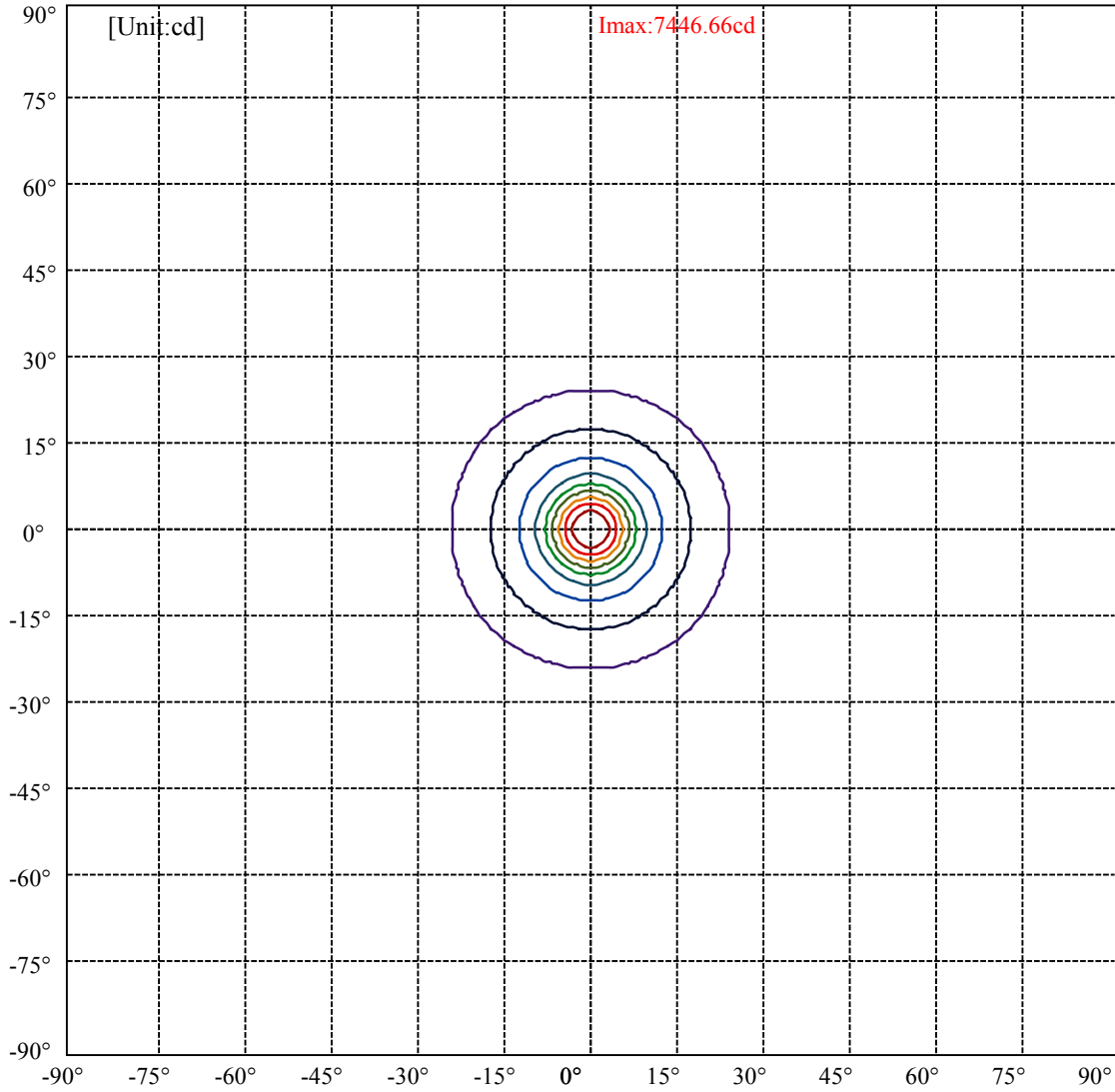


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:23.9 Right:23.9  
:C90/270Left:23.9 Right:23.9

Beam Angle(50%Imax):C0/180Left:7.8 Right:7.8  
:C90/270Left:7.8 Right:7.8





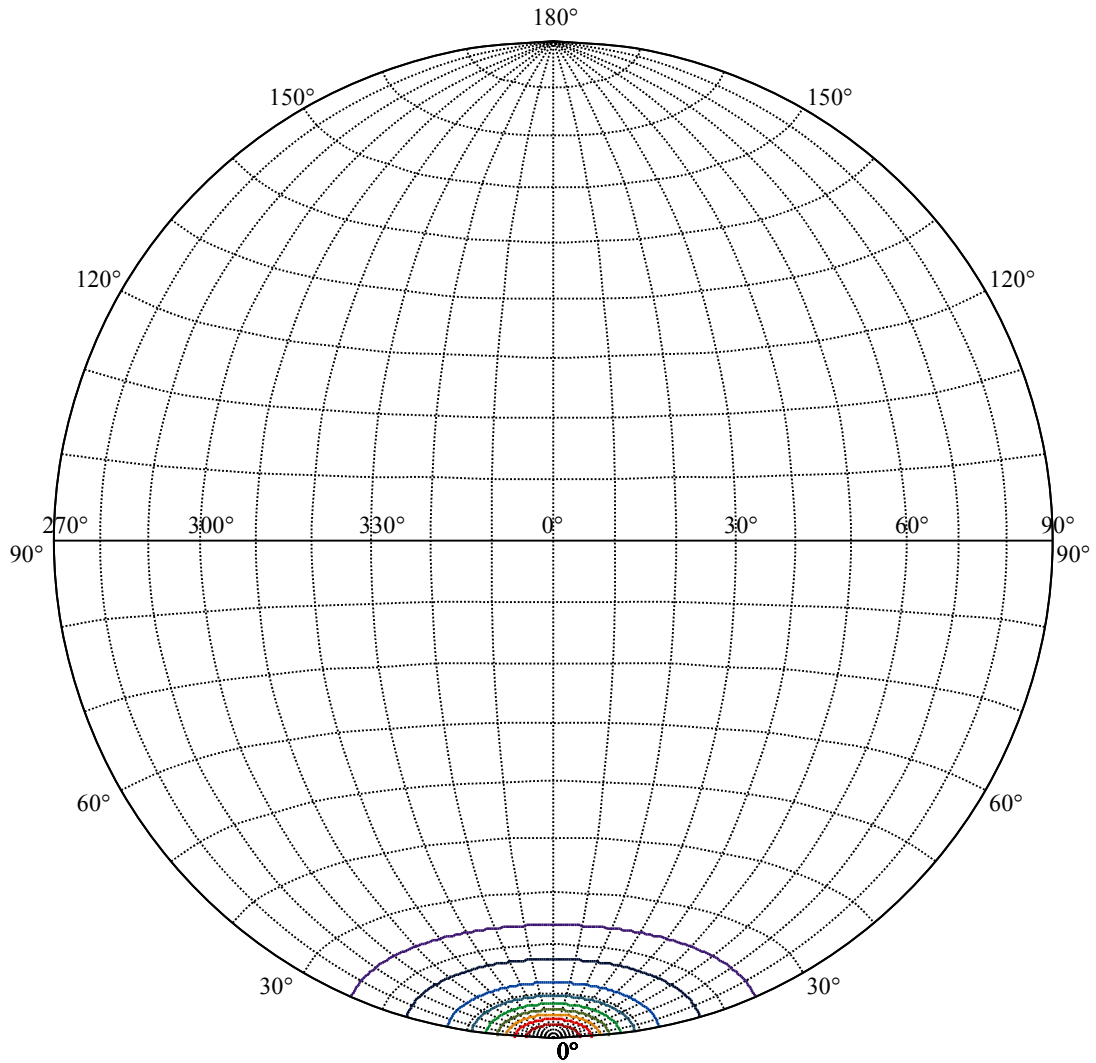
(10%Imax) 744.666	—
(20%Imax) 1489.33	—
(30%Imax) 2234	—
(40%Imax) 2978.66	—
(50%Imax) 3723.33	—
(60%Imax) 4467.99	—
(70%Imax) 5212.66	—
(80%Imax) 5957.33	—
(90%Imax) 6701.99	—

Equipment:  
Temperature(°C): 25.0

Date: 2018/10/15  
Humidity(%): 60.0%

Operator: NT07  
Distance(m): 7.50





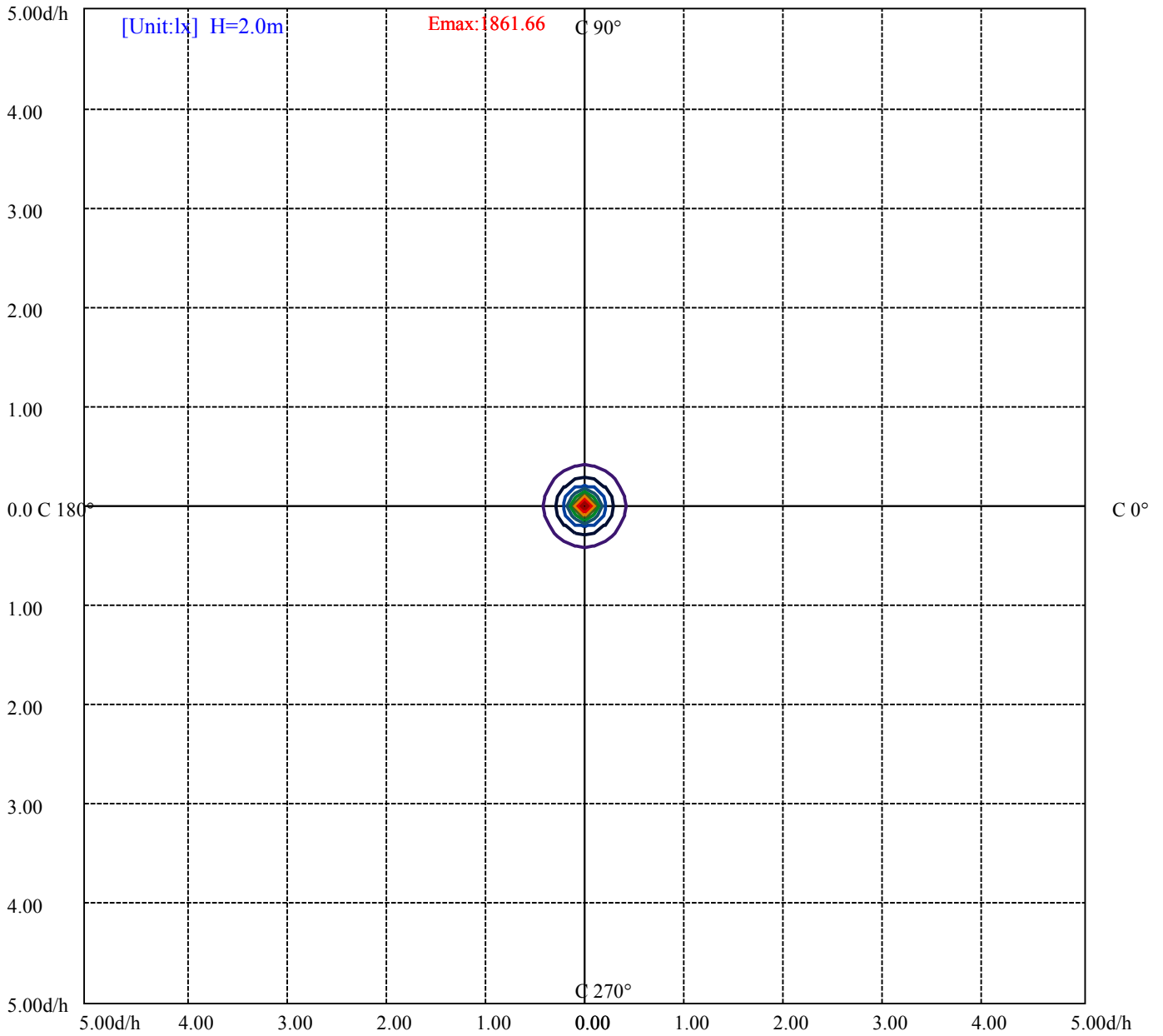
House

[Unit:cd]

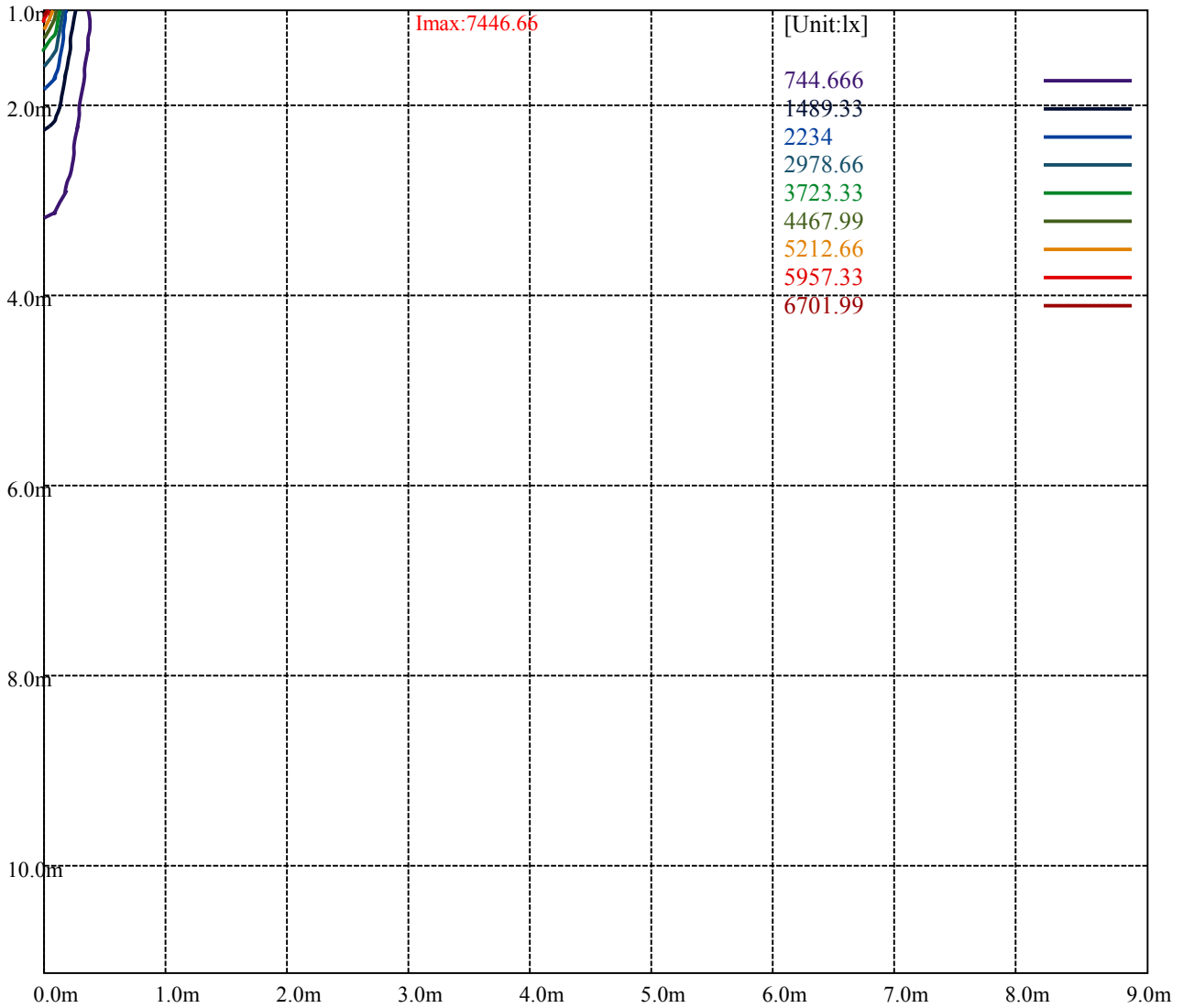
Road

**Imax:7446.66**

(10%Imax) 744.666	—
(20%Imax) 1489.33	—
(30%Imax) 2234	—
(40%Imax) 2978.66	—
(50%Imax) 3723.33	—
(60%Imax) 4467.99	—
(70%Imax) 5212.66	—
(80%Imax) 5957.33	—
(90%Imax) 6701.99	—



- (10%Emax) 186.1662
- (20%Emax) 372.3325
- (30%Emax) 558.4975
- (40%Emax) 744.665
- (50%Emax) 930.83
- (60%Emax) 1116.998
- (70%Emax) 1303.162
- (80%Emax) 1489.33
- (90%Emax) 1675.495



Luminance Table

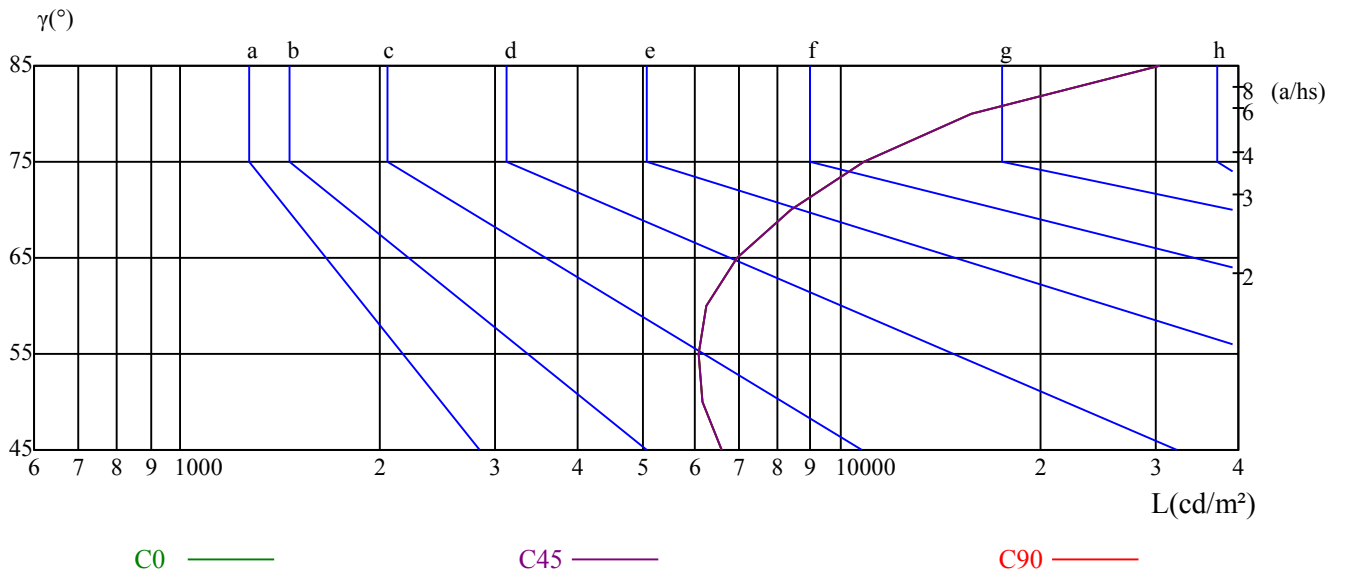
$\gamma$	45	50	55	60	65	70	75	80	85
C0	6584	6157	6071	6260	6958	8414	10862	15787	30463
C45	6584	6157	6071	6260	6958	8414	10862	15787	30463
C90	6584	6157	6071	6260	6958	8414	10862	15787	30463

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6958	6958	6958	10862	10862	10862	30463	30463	30463

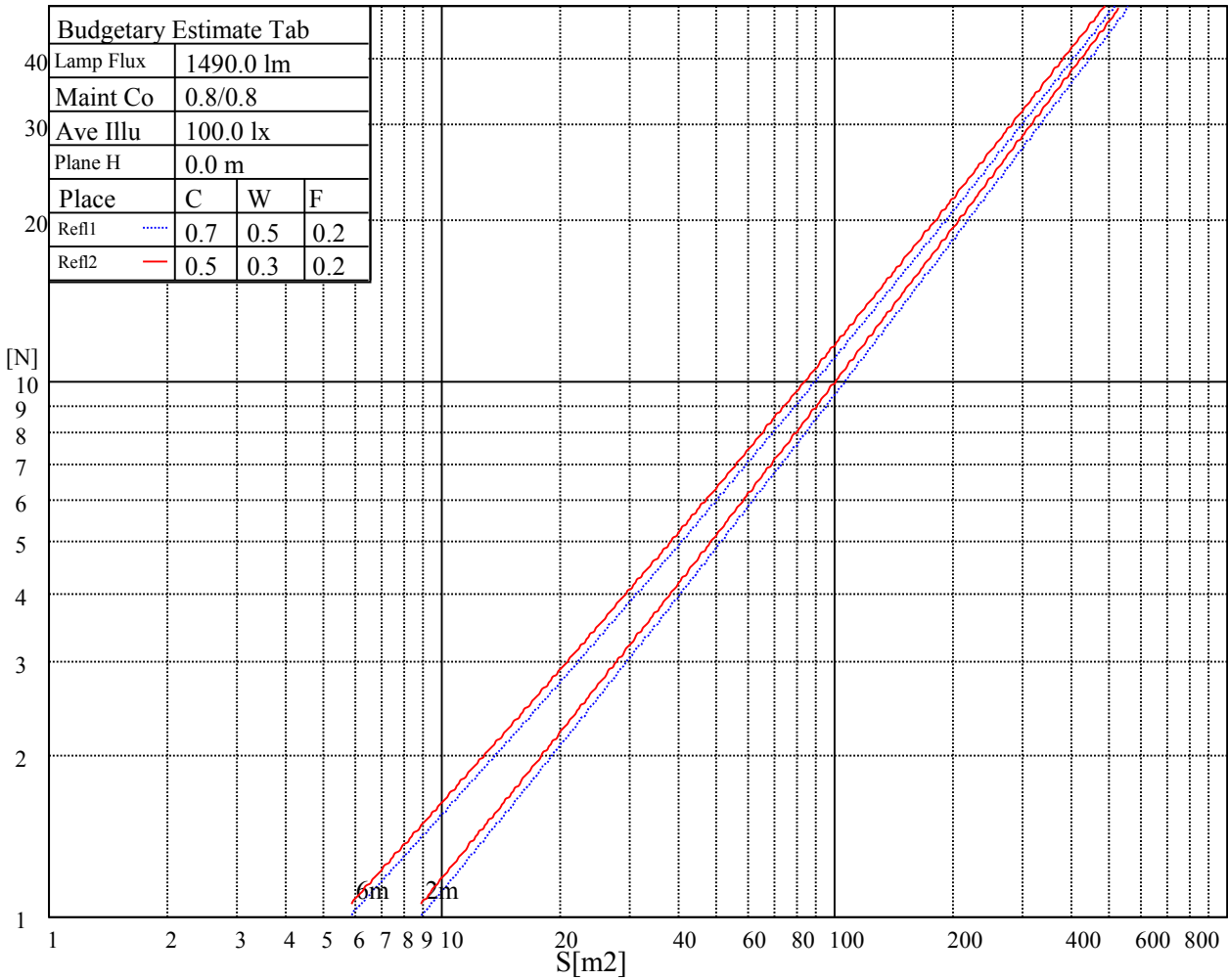
Glare Table

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

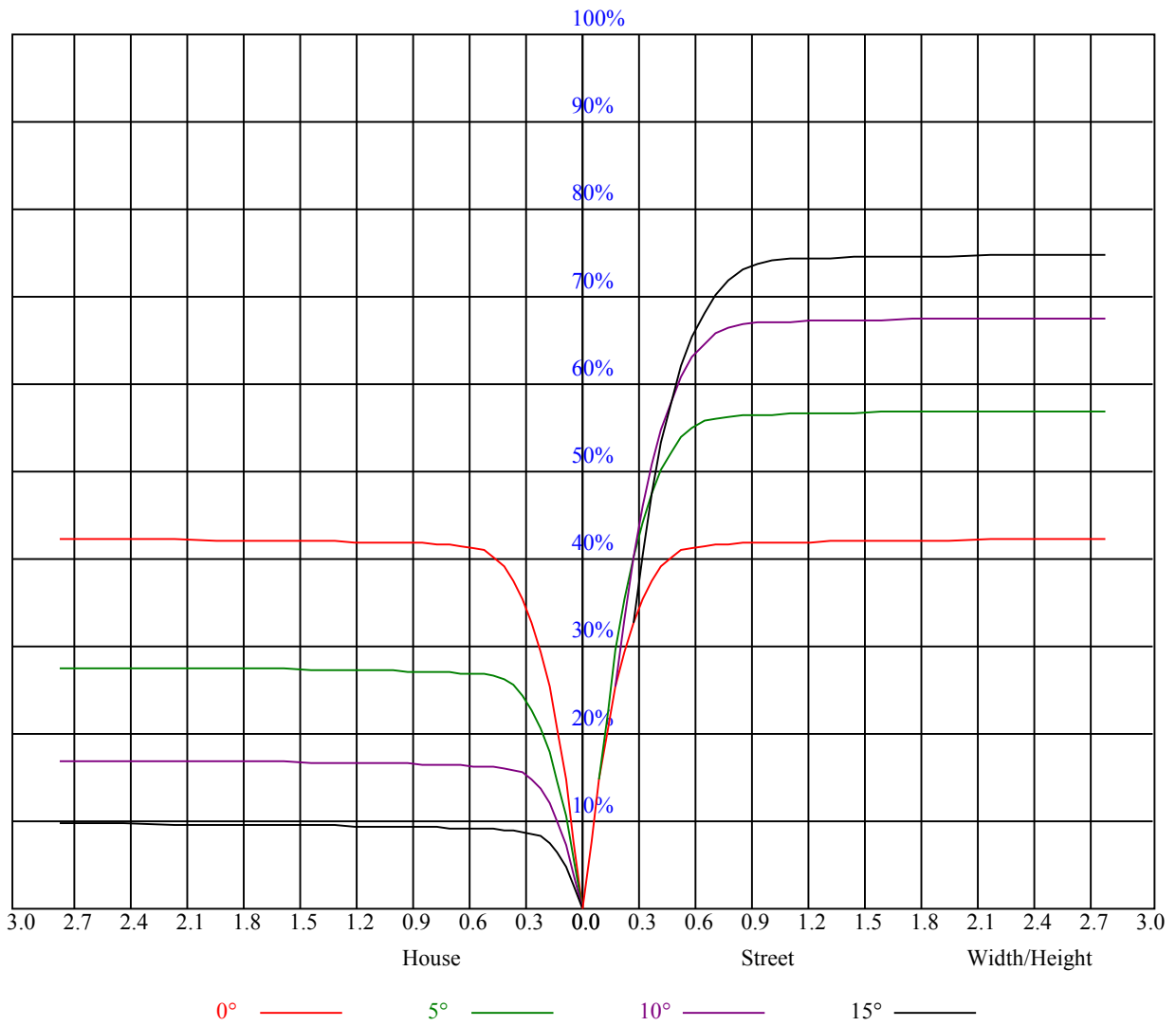
Luminance Limiting Curve



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	6.76	7.67	7.12	7.98	8.30	6.80	7.71	7.16	8.02	8.34
	3H	9.71	10.52	10.09	10.85	11.22	9.70	10.51	10.09	10.85	11.22
	4H	11.38	12.12	11.79	12.48	12.87	11.36	12.11	11.77	12.46	12.85
	6H	13.25	13.94	13.67	14.31	14.71	13.22	13.91	13.64	14.28	14.68
	8H	14.28	14.92	14.72	15.32	15.73	14.25	14.89	14.69	15.29	15.70
	12H	15.96	16.57	16.39	16.95	17.38	15.94	16.55	16.37	16.93	17.37
4H	2H	7.57	8.31	7.98	8.67	9.06	7.60	8.34	8.01	8.70	9.09
	3H	10.82	11.43	11.24	11.84	12.25	10.81	11.42	11.23	11.83	12.24
	4H	12.67	13.21	13.10	13.64	14.09	12.65	13.19	13.08	13.62	14.07
	6H	14.67	15.14	15.15	15.59	16.07	14.65	15.12	15.12	15.57	16.05
	8H	15.82	16.25	16.29	16.70	17.18	15.79	16.23	16.27	16.68	17.16
	12H	17.41	17.78	17.90	18.27	18.75	17.39	17.76	17.88	18.25	18.73
8H	4H	13.37	13.81	13.85	14.26	14.73	13.36	13.79	13.83	14.24	14.72
	6H	15.66	16.01	16.18	16.51	17.00	15.65	15.99	16.16	16.49	16.98
	8H	16.99	17.30	17.53	17.82	18.32	16.97	17.28	17.51	17.80	18.30
	12H	18.73	18.99	19.25	19.49	20.07	18.72	18.98	19.24	19.48	20.06
12H	4H	13.57	13.94	14.06	14.43	14.91	13.55	13.93	14.04	14.42	14.89
	6H	16.18	16.28	16.51	16.75	17.30	16.16	16.26	16.50	16.74	17.29
	8H	17.43	17.69	17.96	18.19	18.78	17.42	17.68	17.94	18.18	18.76
Variation with the observer position at spacings:											
S = 1.0H	2.3/-1.7					2.3/-1.7					
S = 1.5H	2.3/-1.5					2.3/-1.5					
S = 2.0H	2.5/-1.2					2.5/-1.2					
Standard tables:	BKBF					BKBF					
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	1.01	1.01	1.01	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.96	0.94	0.92	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.81
2	0.91	0.88	0.86	0.90	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.82	0.81	0.80	0.78
3	0.87	0.84	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.80	0.78	0.77	0.76
4	0.83	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.78	0.76	0.74	0.73
5	0.80	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.76	0.74	0.72	0.71
6	0.77	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.70	0.69
7	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.72	0.69	0.68	0.67
8	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.66	0.65
9	0.70	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.66	0.64	0.63
10	0.68	0.65	0.63	0.68	0.65	0.63	0.68	0.64	0.62	0.67	0.64	0.62	0.66	0.64	0.62	0.61





NATA 1761-A

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	7444.69	7396.31	7185.38	6867.56	6279.75	5634.00	4887.56	4199.06	3685.50
45.0	7447.50	7479.56	7390.13	7142.06	6772.50	6227.44	5410.13	4735.69	4112.44
90.0	7467.75	7482.38	7358.06	7095.94	6598.13	5984.44	5189.06	4413.94	3807.00
135.0	7426.69	7472.25	7398.00	7200.00	6831.00	6193.69	5412.38	4704.75	3977.44
180.0	7444.69	7389.00	7191.00	6750.00	6171.75	5483.81	4605.19	3958.88	3435.75
225.0	7447.50	7241.06	6972.19	6420.38	5610.94	4992.19	4254.19	3564.00	3197.25
270.0	7467.75	7344.56	7039.13	6521.06	5898.38	5211.00	4393.13	3832.31	3434.06
315.0	7426.69	7245.00	6862.50	6279.19	5637.94	4883.63	4197.94	3683.25	3265.88
360.0	7444.69	7396.31	7185.38	6867.56	6279.75	5634.00	4887.56	4199.06	3685.50

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3225.38	2864.25	2598.75	2377.69	2144.81	1984.50	1839.94	1688.63	1550.81
45.0	3538.69	3094.31	2779.31	2492.44	2258.44	2079.56	1897.88	1746.56	1607.06
90.0	3327.19	2875.50	2601.00	2376.00	2167.31	1986.19	1833.75	1681.88	1542.94
135.0	3405.94	3022.31	2681.44	2437.88	2211.19	2021.06	1869.19	1711.13	1576.13
180.0	2949.75	2653.88	2418.19	2169.00	2004.75	1857.38	1691.44	1584.00	1458.00
225.0	2856.94	2488.50	2295.56	2108.25	1887.19	1761.19	1630.69	1490.63	1362.38
270.0	2982.94	2664.00	2432.81	2208.38	2020.50	1869.75	1719.00	1593.00	1477.13
315.0	2888.44	2585.81	2332.69	2147.63	1987.31	1811.81	1683.00	1564.31	1431.56
360.0	3225.38	2864.25	2598.75	2377.69	2144.81	1984.50	1839.94	1688.63	1550.81

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1441.13	1328.06	1222.88	1136.81	1029.38	916.88	781.88	650.81	537.19
45.0	1471.50	1360.13	1255.50	1145.81	1045.69	939.38	797.06	682.31	573.19
90.0	1429.31	1312.88	1182.38	1116.23	1024.48	902.36	775.13	659.81	534.43
135.0	1463.06	1371.94	1237.50	1150.88	1070.44	938.81	813.94	717.19	581.63
180.0	1328.06	1244.81	1120.84	1041.36	935.44	824.46	697.33	570.43	466.76
225.0	1260.00	1103.79	1058.12	949.61	841.78	717.75	596.08	482.34	390.21
270.0	1346.63	1251.00	1159.31	1044.00	936.00	822.38	680.63	569.25	460.69
315.0	1336.50	1246.50	1120.61	1029.88	914.63	794.14	662.46	533.53	430.99
360.0	1441.13	1328.06	1222.88	1136.81	1029.38	916.88	781.88	650.81	537.19

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	428.06	307.69	286.88	173.42	133.48	101.59	77.46	58.61	39.15
45.0	456.19	345.94	290.25	181.86	137.59	112.22	86.23	65.70	48.77
90.0	426.09	319.33	229.11	171.45	133.48	100.63	78.47	60.64	42.81
135.0	455.06	367.88	288.56	188.66	142.03	110.70	86.12	67.05	47.53
180.0	375.86	270.06	201.38	157.22	124.14	95.46	74.93	56.53	40.16
225.0	304.20	215.04	167.18	136.01	108.06	83.87	66.60	51.53	32.12
270.0	351.00	285.75	193.84	151.31	119.87	94.44	71.38	53.83	36.17
315.0	326.14	237.43	184.61	143.72	112.73	82.13	58.33	41.51	26.44
360.0	428.06	307.69	286.88	173.42	133.48	101.59	77.46	58.61	39.15

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	26.33	18.56	15.24	13.89	12.99	12.26	11.64	11.19	10.86
45.0	33.53	22.95	17.33	15.30	14.18	13.22	12.15	11.25	10.69
90.0	30.66	20.70	15.64	13.44	12.54	11.64	11.03	10.46	9.96
135.0	34.54	23.01	15.30	12.71	11.48	10.52	9.90	9.45	9.06
180.0	26.78	17.55	14.12	12.38	11.14	10.46	9.90	9.39	9.06
225.0	21.38	16.71	15.02	13.67	12.77	11.81	11.03	10.24	9.79
270.0	22.73	17.72	15.47	13.95	12.99	12.26	11.59	11.14	10.86
315.0	17.94	15.24	14.12	13.11	12.49	11.98	11.59	11.25	11.03
360.0	26.33	18.56	15.24	13.89	12.99	12.26	11.64	11.19	10.86

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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	10.63	10.35	9.96	9.51	9.00	8.27	7.82	7.37	7.03
45.0	10.24	9.84	9.62	9.45	9.23	8.94	8.66	8.27	7.88
90.0	9.51	9.06	8.72	8.49	8.38	8.33	8.33	8.33	8.27
135.0	8.72	8.44	8.21	8.04	7.93	7.88	7.82	7.82	7.88
180.0	8.83	8.55	8.33	8.16	8.04	7.99	8.04	8.16	8.27
225.0	9.51	9.39	9.34	9.28	9.28	9.06	8.78	8.38	7.93
270.0	10.63	10.46	10.29	9.96	9.28	8.72	8.10	7.59	7.26
315.0	10.74	10.29	9.79	9.06	8.44	7.82	7.31	7.03	6.86
360.0	10.63	10.35	9.96	9.51	9.00	8.27	7.82	7.37	7.03
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	6.81	6.69	6.53	6.41	6.36	6.24	6.19	6.19	6.13
45.0	7.54	7.26	7.03	6.81	6.64	6.58	6.47	6.41	6.36
90.0	8.16	8.04	7.71	7.37	7.09	6.81	6.64	6.53	6.53
135.0	7.99	8.10	8.27	8.44	8.49	8.44	8.04	7.59	7.09
180.0	8.33	8.27	8.04	7.71	7.37	7.09	6.81	6.64	6.53
225.0	7.48	7.20	6.86	6.69	6.53	6.47	6.41	6.41	6.36
270.0	6.98	6.81	6.69	6.53	6.41	6.30	6.24	6.24	6.24
315.0	6.69	6.58	6.47	6.41	6.30	6.24	6.19	6.13	6.08
360.0	6.81	6.69	6.53	6.41	6.36	6.24	6.19	6.19	6.13
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	6.08	6.08	6.02	6.02	6.02	6.02	6.02	6.02	6.02
45.0	6.36	6.30	6.30	6.30	6.30	6.24	6.19	6.19	6.13
90.0	6.47	6.36	6.30	6.24	6.19	6.13	6.13	6.02	6.02
135.0	6.75	6.58	6.47	6.41	6.41	6.36	6.36	6.30	6.24
180.0	6.36	6.30	6.24	6.19	6.13	6.13	6.08	6.02	5.96
225.0	6.36	6.30	6.30	6.24	6.24	6.19	6.13	6.08	6.02
270.0	6.19	6.13	6.13	6.13	6.13	6.08	6.08	6.08	6.08
315.0	6.08	6.08	6.02	6.02	6.02	6.02	6.02	6.02	6.02
360.0	6.08	6.08	6.02	6.02	6.02	6.02	6.02	6.02	6.02
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.02	6.02	6.02	5.96	5.91	5.85	5.79	5.79	5.79
45.0	6.13	6.13	6.08	6.02	5.96	5.91	5.91	5.91	5.91
90.0	5.96	5.91	5.91	5.91	5.85	5.79	5.79	5.79	5.74
135.0	6.19	6.13	6.13	6.08	6.02	6.02	5.96	5.96	5.91
180.0	5.91	5.91	5.91	5.85	5.85	5.79	5.79	5.74	5.68
225.0	6.02	5.96	5.91	5.91	5.85	5.85	5.79	5.79	5.74
270.0	6.08	6.02	6.02	5.96	5.91	5.91	5.85	5.85	5.79
315.0	5.96	5.91	5.91	5.91	5.85	5.85	5.85	5.85	5.85
360.0	6.02	6.02	6.02	5.96	5.91	5.85	5.79	5.79	5.79
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.79	5.74	5.74	5.68	5.63	5.57	5.51	5.51	5.46
45.0	5.85	5.79	5.79	5.74	5.68	5.63	5.51	5.51	5.46
90.0	5.74	5.68	5.63	5.57	5.57	5.51	5.51	5.46	5.46
135.0	5.85	5.85	5.74	5.74	5.68	5.68	5.63	5.63	5.63
180.0	5.68	5.63	5.57	5.57	5.57	5.57	5.51	5.51	5.51
225.0	5.74	5.68	5.63	5.63	5.57	5.51	5.51	5.46	5.46
270.0	5.74	5.74	5.68	5.68	5.63	5.57	5.51	5.46	5.46
315.0	5.79	5.74	5.68	5.68	5.63	5.63	5.51	5.57	5.40
360.0	5.79	5.74	5.74	5.68	5.63	5.57	5.51	5.51	5.46

Intensity data(cd)

C/ $\gamma$ (°)	90.0
0.0	5.40
45.0	5.46
90.0	5.40
135.0	5.63
180.0	5.51
225.0	5.40
270.0	5.34
315.0	5.34
360.0	5.40