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NATA

LumCAT: 1653-N	
Luminaire: 92.70.064.00	
Report No: NATA0100	Voltage(V): 34.7000
Test No: GC2019011112	Current(A): 0.3100
LampCAT: SEOUL SAWx10 LES9.8	Power (W): 10.7570
Lamp flux(lm): 1626.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 32	Width(mm): 32
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1428.06
Efficiency(%): 87.83%
Lumens(lm)/Power(W): 132.85
Central intensity(cd): 4552.453
Maximum intensity(cd): 4552.453
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=26.2
 [C90/270]Total=26.2
Field angle(10%Imax): [C0/180]Total=61.0
 [C90/270]Total=61.0
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 87.89%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.302%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4552.453	1.089	1.089	.067%	.076%
1.0	4547.672	8.704	9.793	.535%	.686%
2.0	4532.344	17.346	27.138	1.067%	1.900%
3.0	4514.977	25.912	53.051	1.594%	3.715%
4.0	4475.883	34.239	87.289	2.106%	6.112%
5.0	4397.133	42.026	129.315	2.585%	9.055%
6.0	4264.242	48.880	178.195	3.006%	12.478%
7.0	4079.109	54.514	232.709	3.353%	16.296%
8.0	3848.273	58.732	291.441	3.612%	20.408%
9.0	3578.625	61.390	352.832	3.776%	24.707%
10.0	3274.102	62.347	415.178	3.834%	29.073%
11.0	2945.461	61.632	476.81	3.790%	33.389%
12.0	2608.523	59.474	536.284	3.658%	37.553%
13.0	2301.539	56.775	593.059	3.492%	41.529%
14.0	2038.148	54.071	647.13	3.325%	45.315%
15.0	1807.664	51.306	698.435	3.155%	48.908%
16.0	1605.305	48.523	746.958	2.984%	52.306%
17.0	1428.188	45.790	792.748	2.816%	55.512%
18.0	1263.839	42.828	835.576	2.634%	58.511%
19.0	1145.869	40.910	876.486	2.516%	61.376%
20.0	1058.864	39.714	916.2	2.442%	64.157%
21.0	969.075	38.084	954.284	2.342%	66.824%
22.0	897.258	36.859	991.143	2.267%	69.405%
23.0	831.663	35.635	1026.778	2.192%	71.900%
24.0	773.972	34.522	1061.299	2.123%	74.318%
25.0	725.013	33.601	1094.9	2.066%	76.671%
26.0	680.850	32.730	1127.63	2.013%	78.962%
27.0	633.916	31.560	1159.189	1.941%	81.172%
28.0	585.155	30.125	1189.315	1.853%	83.282%
29.0	532.005	28.284	1217.599	1.739%	85.263%
30.0	479.616	26.298	1243.896	1.617%	87.104%
31.0	429.560	24.261	1268.158	1.492%	88.803%
32.0	377.276	21.924	1290.082	1.348%	90.338%
33.0	326.609	19.507	1309.588	1.200%	91.704%
34.0	283.732	17.399	1326.987	1.070%	92.923%
35.0	240.026	15.097	1342.085	.928%	93.980%
36.0	189.183	12.194	1354.279	.750%	94.834%
37.0	149.055	9.837	1364.116	.605%	95.522%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	114.209	7.711	1371.827	.474%	96.062%
39.0	79.699	5.500	1377.327	.338%	96.448%
40.0	55.069	3.882	1381.208	.239%	96.719%
41.0	36.858	2.652	1383.86	.163%	96.905%
42.0	26.241	1.925	1385.786	.118%	97.040%
43.0	21.059	1.575	1387.361	.097%	97.150%
44.0	17.916	1.365	1388.725	.084%	97.246%
45.0	15.342	1.190	1389.915	.073%	97.329%
46.0	13.985	1.103	1391.018	.068%	97.406%
47.0	13.233	1.061	1392.08	.065%	97.481%
48.0	12.769	1.041	1393.12	.064%	97.553%
49.0	12.361	1.023	1394.143	.063%	97.625%
50.0	11.953	1.004	1395.147	.062%	97.695%
51.0	11.672	0.995	1396.142	.061%	97.765%
52.0	11.384	0.984	1397.126	.060%	97.834%
53.0	11.116	0.974	1398.099	.060%	97.902%
54.0	10.969	0.973	1399.072	.060%	97.970%
55.0	10.814	0.971	1400.044	.060%	98.038%
56.0	10.561	0.960	1401.004	.059%	98.106%
57.0	10.378	0.954	1401.958	.059%	98.172%
58.0	10.245	0.953	1402.911	.059%	98.239%
59.0	10.146	0.954	1403.865	.059%	98.306%
60.0	10.076	0.957	1404.822	.059%	98.373%
61.0	9.956	0.955	1405.777	.059%	98.440%
62.0	9.858	0.954	1406.731	.059%	98.507%
63.0	9.675	0.945	1407.676	.058%	98.573%
64.0	9.464	0.933	1408.609	.057%	98.638%
65.0	9.162	0.911	1409.52	.056%	98.702%
66.0	8.803	0.882	1410.402	.054%	98.764%
67.0	8.466	0.855	1411.256	.053%	98.823%
68.0	8.114	0.825	1412.081	.051%	98.881%
69.0	7.889	0.808	1412.889	.050%	98.938%
70.0	7.664	0.790	1413.679	.049%	98.993%
71.0	7.488	0.776	1414.455	.048%	99.047%
72.0	7.404	0.772	1415.227	.047%	99.102%
73.0	7.348	0.771	1415.998	.047%	99.155%
74.0	7.298	0.769	1416.767	.047%	99.209%
75.0	7.221	0.765	1417.532	.047%	99.263%

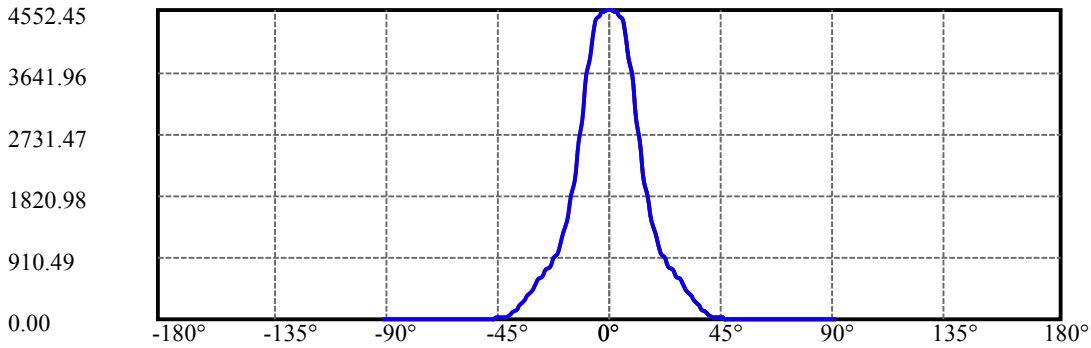
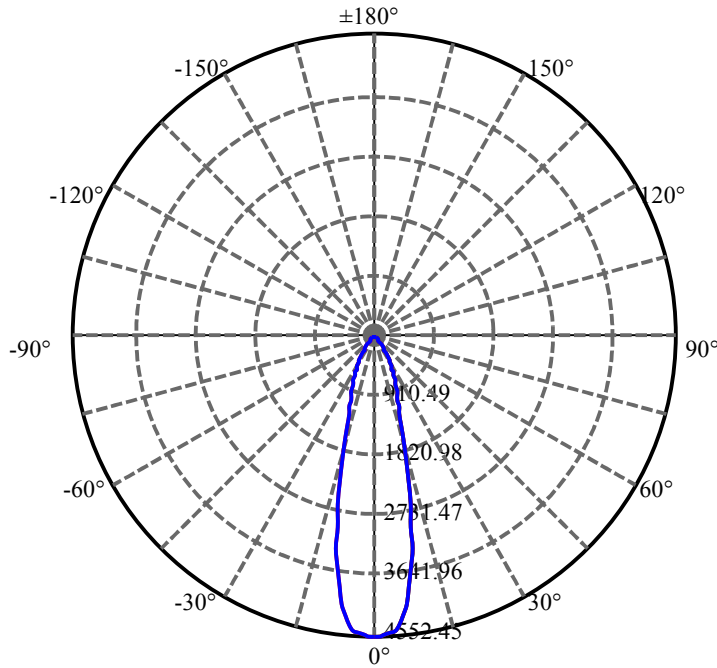
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.165	0.762	1418.294	.047%	99.316%
77.0	7.116	0.760	1419.055	.047%	99.370%
78.0	7.024	0.753	1419.808	.046%	99.422%
79.0	6.968	0.750	1420.558	.046%	99.475%
80.0	6.891	0.744	1421.302	.046%	99.527%
81.0	6.827	0.739	1422.042	.045%	99.579%
82.0	6.764	0.735	1422.776	.045%	99.630%
83.0	6.687	0.728	1423.504	.045%	99.681%
84.0	6.630	0.723	1424.227	.044%	99.732%
85.0	6.546	0.715	1424.942	.044%	99.782%
86.0	6.448	0.705	1425.648	.043%	99.831%
87.0	6.377	0.698	1426.346	.043%	99.880%
88.0	6.279	0.688	1427.034	.042%	99.928%
89.0	6.237	0.684	1427.718	.042%	99.976%
90.0	6.195	0.340	1428.058	.021%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1243.90	76.50%	87.10%
0-40	1381.21	84.95%	96.72%
0-60	1404.82	86.40%	98.37%
0-90	1427.72	87.81%	99.98%
0-120	1427.72	87.81%	99.98%
0-180	1428.06	87.83%	100.00%
60-90	23.85	1.47%	1.67%
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%
0-26.47	1142.45	70.26%	80.00%

ZONAL LUMEN SUMMARY

0-10	415.18
10-20	501.02
20-30	327.70
30-40	137.31
40-50	13.94
50-60	9.67
60-70	8.86
70-80	7.62
80-90	6.42
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: —————

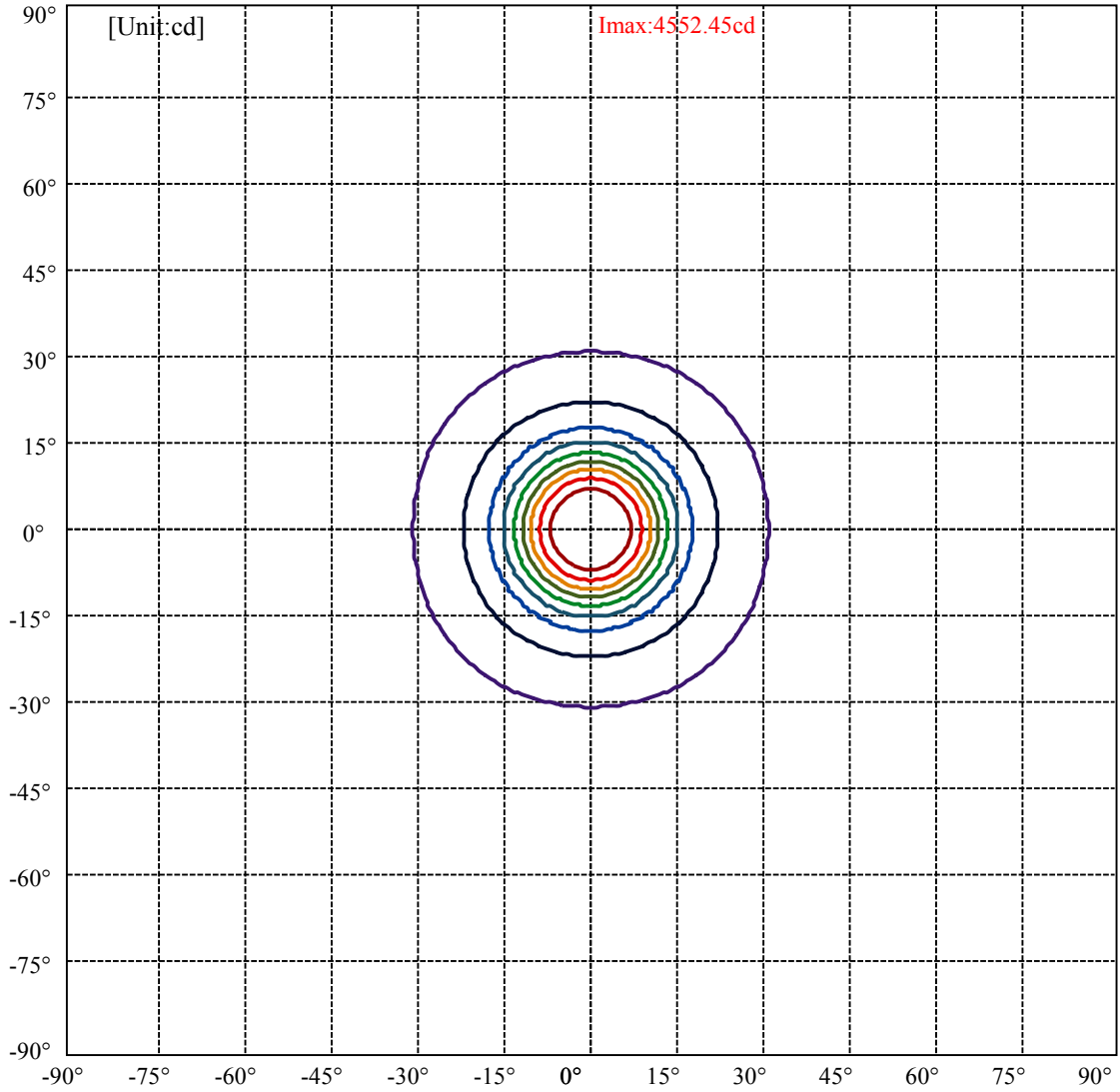
C90/C270: —————

Field angle(10%Imax):C0/180Left:30.5 Right:30.5

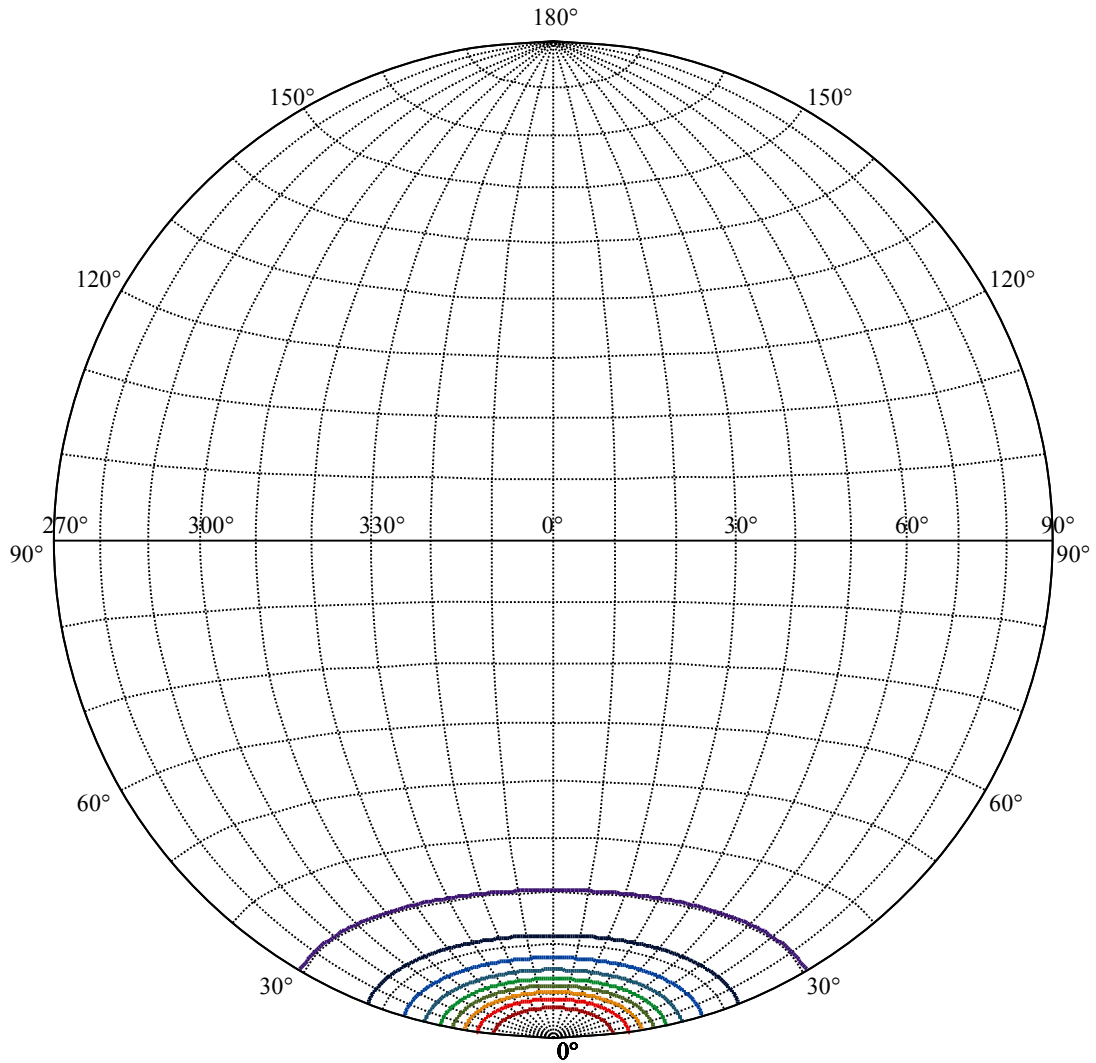
:C90/270Left:30.5 Right:30.5

Beam Angle(50%Imax):C0/180Left:13.1 Right:13.1

:C90/270Left:13.1 Right:13.1



(10%Imax) 455.245	—
(20%Imax) 910.491	—
(30%Imax) 1365.74	—
(40%Imax) 1820.98	—
(50%Imax) 2276.23	—
(60%Imax) 2731.47	—
(70%Imax) 3186.72	—
(80%Imax) 3641.96	—
(90%Imax) 4097.21	—



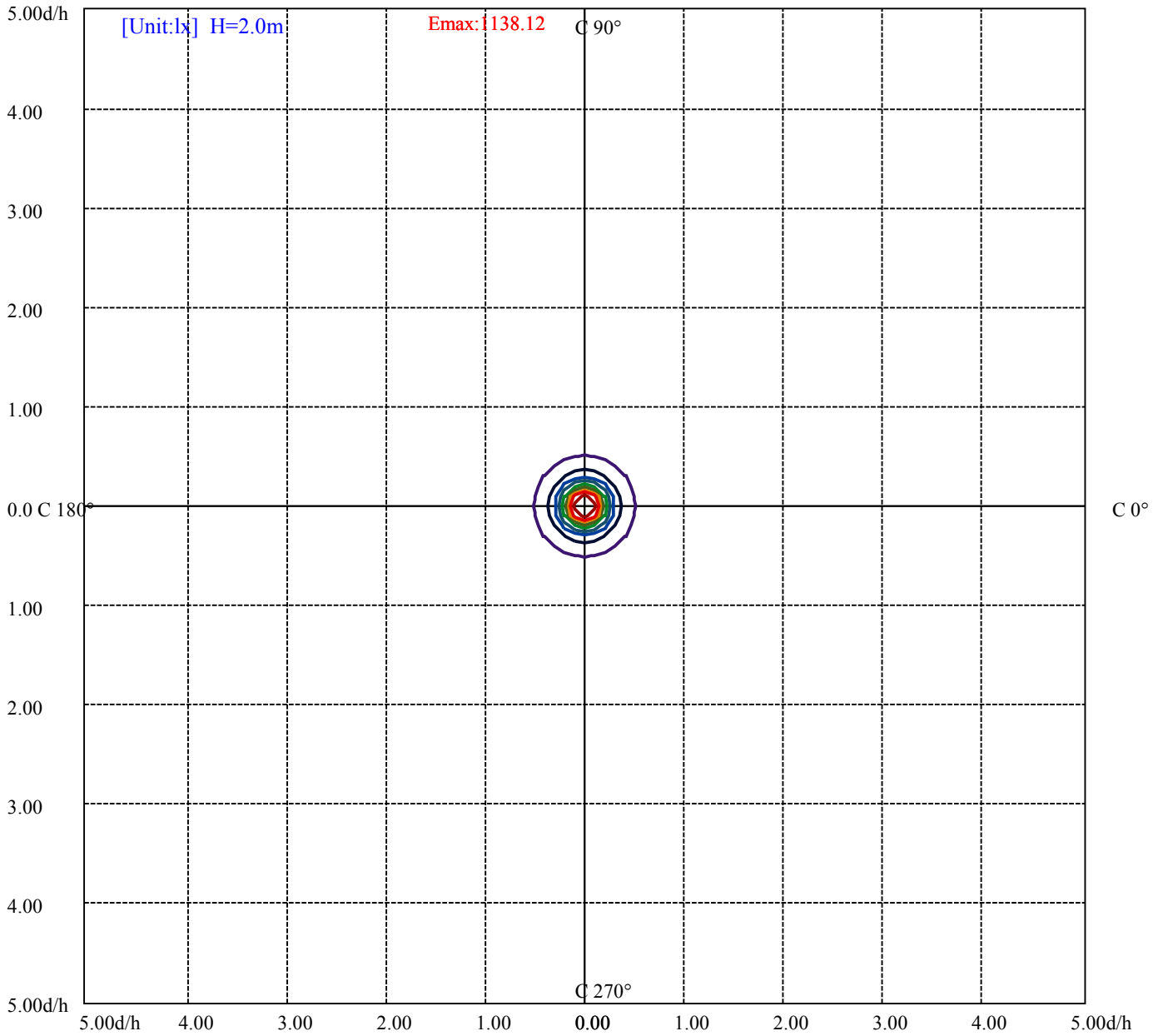
House

[Unit:cd]

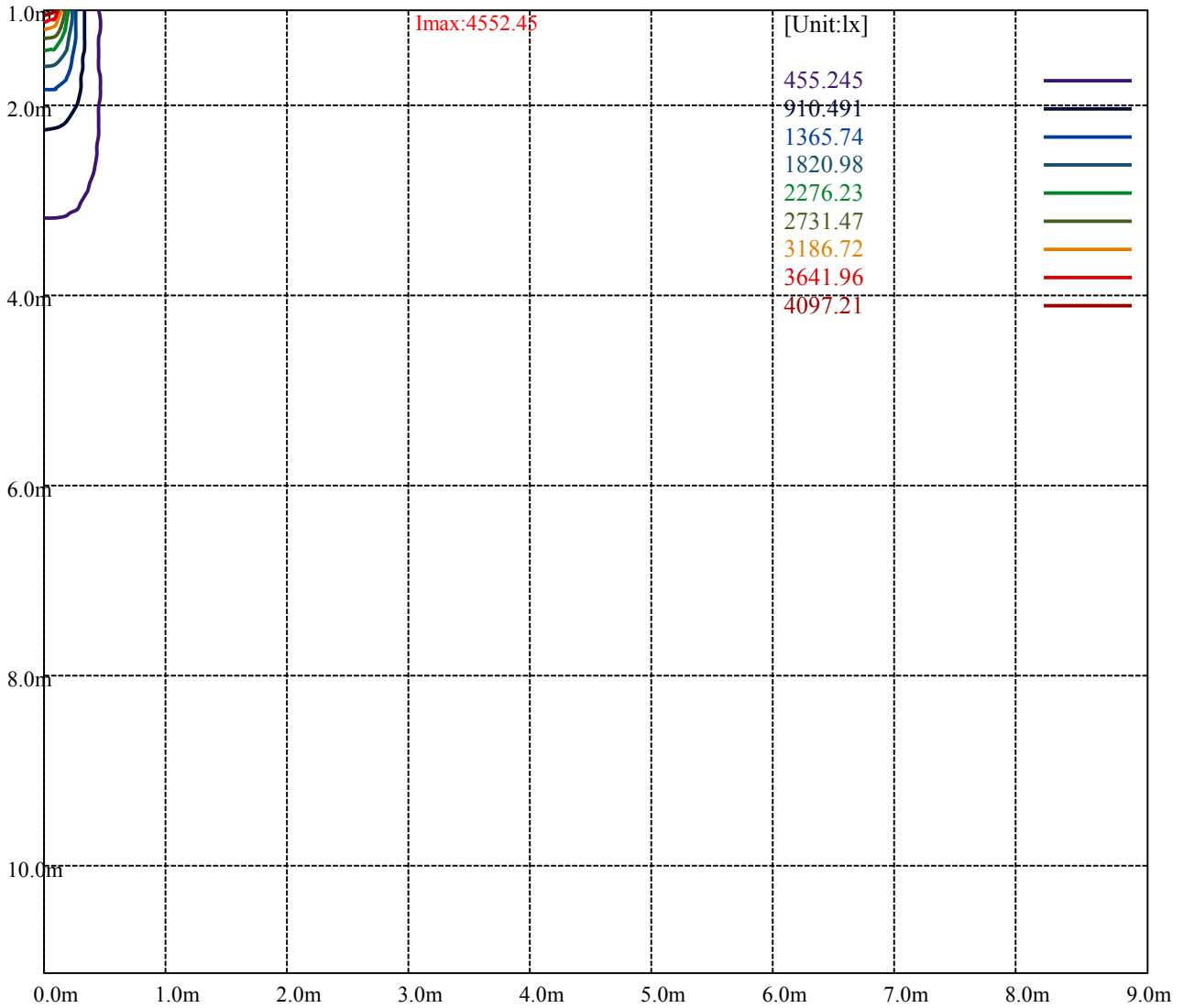
Road

I_{max}:4552.45

(10%I _{max}) 455.245	—
(20%I _{max}) 910.491	—
(30%I _{max}) 1365.74	—
(40%I _{max}) 1820.98	—
(50%I _{max}) 2276.23	—
(60%I _{max}) 2731.47	—
(70%I _{max}) 3186.72	—
(80%I _{max}) 3641.96	—
(90%I _{max}) 4097.21	—



- (10%Emax) 113.8112
- (20%Emax) 227.6228
- (30%Emax) 341.435
- (40%Emax) 455.245
- (50%Emax) 569.0575
- (60%Emax) 682.8675
- (70%Emax) 796.68
- (80%Emax) 910.49
- (90%Emax) 1024.302



Luminance Table

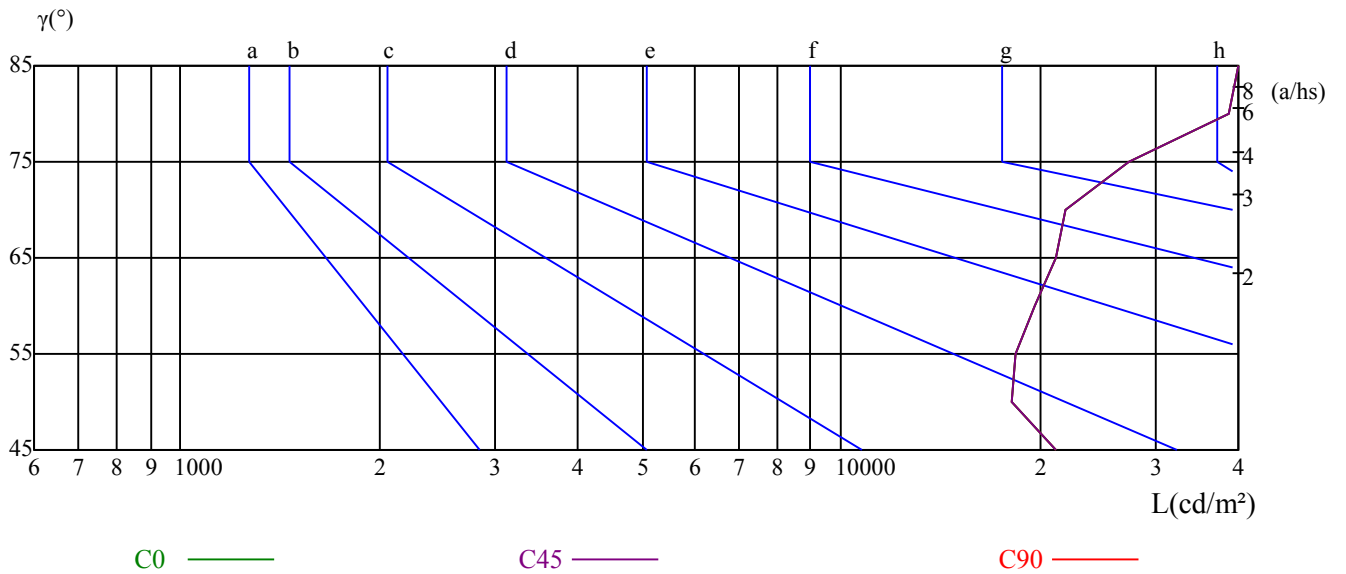
γ	45	50	55	60	65	70	75	80	85
C0	21189	18160	18412	19679	21170	21883	27246	38751	73348
C45	21189	18160	18412	19679	21170	21883	27246	38751	73348
C90	21189	18160	18412	19679	21170	21883	27246	38751	73348

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
21170	21170	21170	27246	27246	27246	73348	73348	73348

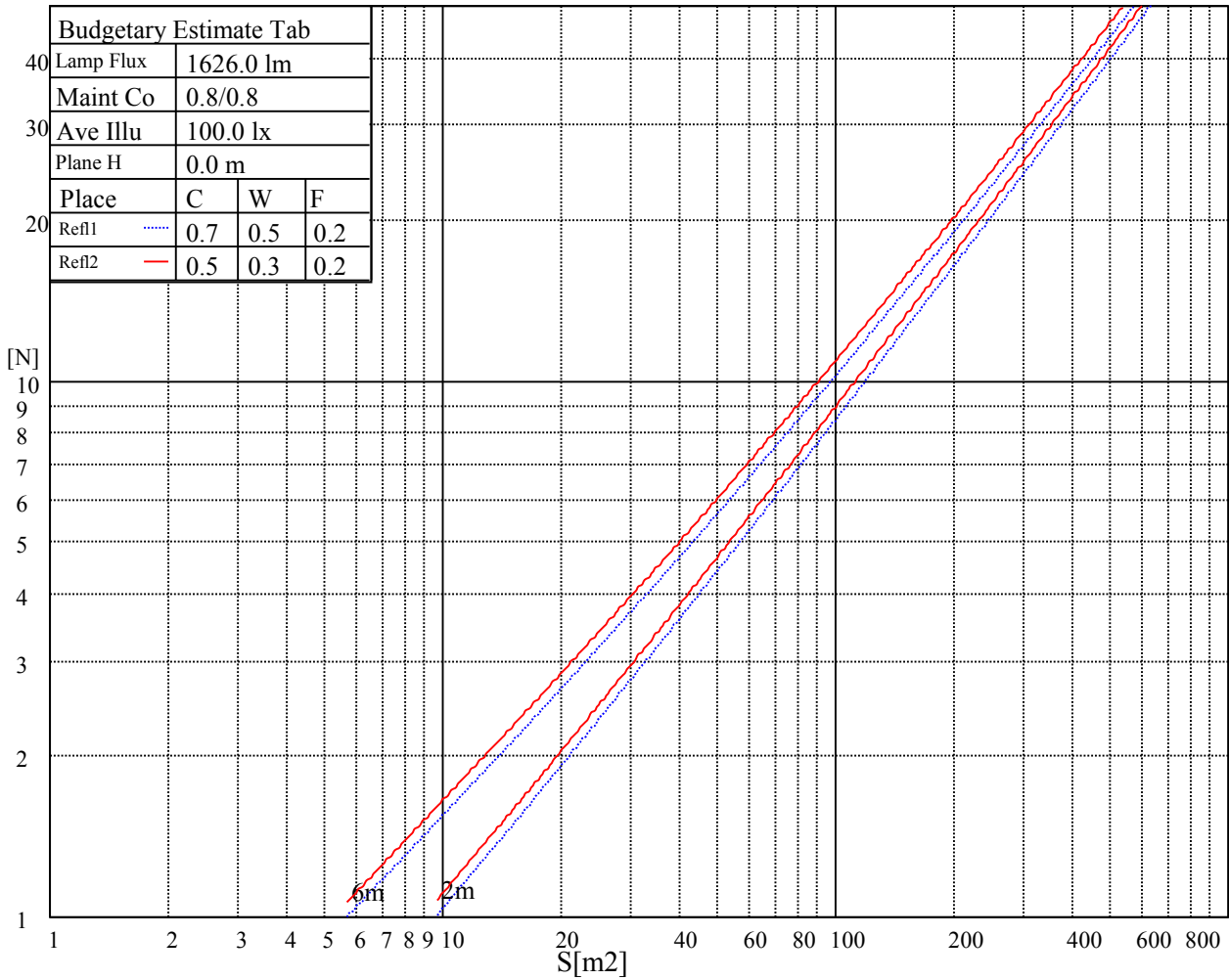
Glare Table

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

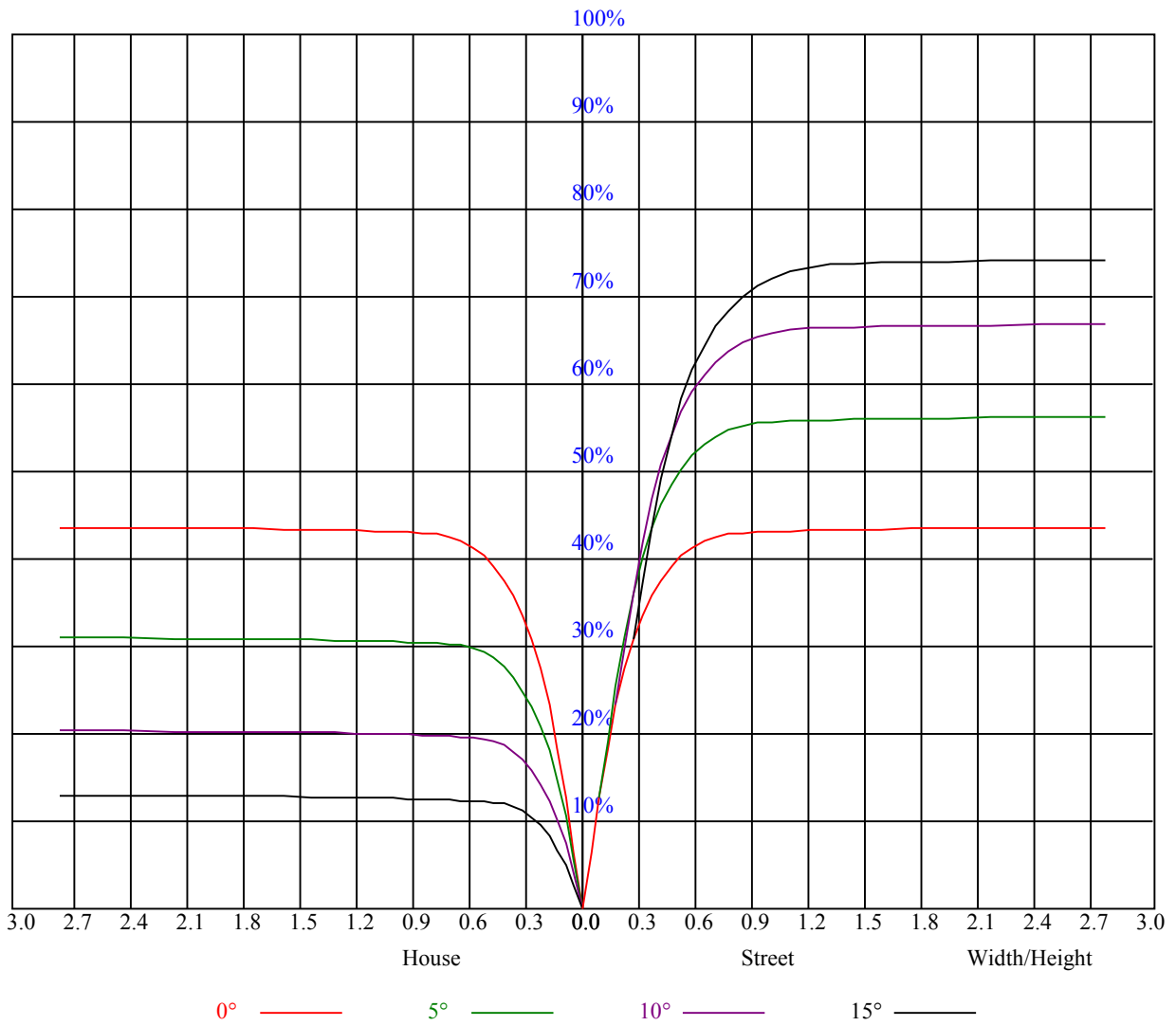
Luminance Limiting Curve



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	12.04	12.97	12.41	13.28	13.59	10.49	11.42	10.86	11.73	12.04
	3H	14.22	15.04	14.61	15.38	15.74	13.26	14.07	13.64	14.41	14.78
	4H	15.40	16.16	15.81	16.51	16.90	14.76	15.52	15.17	15.87	16.26
	6H	16.87	17.56	17.29	17.93	18.33	16.47	17.16	16.89	17.54	17.93
	8H	17.72	18.36	18.15	18.76	19.17	17.43	18.08	17.87	18.47	18.88
	12H	19.15	19.77	19.58	20.15	20.58	19.03	19.65	19.47	20.04	20.47
4H	2H	12.60	13.36	13.01	13.71	14.10	11.46	12.22	11.87	12.57	12.96
	3H	15.04	15.66	15.46	16.07	16.48	14.37	14.99	14.78	15.40	15.80
	4H	16.44	16.99	16.88	17.42	17.87	16.02	16.57	16.45	17.00	17.44
	6H	18.07	18.55	18.55	19.00	19.47	17.84	18.32	18.32	18.77	19.25
	8H	19.07	19.51	19.54	19.96	20.44	18.92	19.36	19.40	19.81	20.29
	12H	20.48	20.86	20.98	21.35	21.83	20.45	20.83	20.94	21.32	21.80
8H	4H	16.97	17.41	17.45	17.86	18.34	16.63	17.07	17.11	17.52	18.00
	6H	18.92	19.27	19.43	19.77	20.26	18.75	19.10	19.26	19.60	20.09
	8H	20.11	20.42	20.65	20.95	21.44	20.01	20.32	20.55	20.85	21.35
	12H	21.77	22.03	22.29	22.53	23.12	21.73	22.00	22.25	22.50	23.08
12H	4H	17.11	17.49	17.61	17.98	18.46	16.80	17.18	17.29	17.67	18.15
	6H	19.39	19.49	19.72	19.96	20.51	19.24	19.34	19.56	19.81	20.36
	8H	20.51	20.77	21.03	21.27	21.85	20.42	20.69	20.94	21.19	21.77
Variation with the observer position at spacings:											
S = 1.0H	5.1/-4.5					5.1/-4.5					
S = 1.5H	6.8/-3.5					6.8/-3.5					
S = 2.0H	7.8/-2.5					7.8/-2.5					
Standard tables:	BK4					BK4					
Uncorrected UGR	5.1					5.1					



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	1.05	1.05	1.05	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.88
1	0.98	0.96	0.94	0.96	0.95	0.93	0.93	0.91	0.90	0.90	0.88	0.87	0.87	0.86	0.85	0.83
2	0.93	0.90	0.87	0.91	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.83	0.84	0.82	0.81	0.79
3	0.88	0.84	0.81	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.76	0.79	0.77	0.75	0.78	0.76	0.74	0.73
5	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.71	0.70
6	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
7	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.65	0.64
8	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
9	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
10	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58



NATA 1653-N

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	4584.94	4600.13	4583.81	4565.25	4556.25	4519.13	4440.38	4279.50	4070.25
45.0	4536.56	4535.44	4500.00	4481.44	4453.31	4363.88	4242.94	4075.31	3843.00
90.0	4545.00	4521.38	4510.13	4483.69	4420.13	4321.13	4128.19	3924.56	3678.75
135.0	4543.31	4532.06	4519.13	4504.50	4455.56	4376.81	4194.56	3978.00	3752.44
180.0	4584.94	4579.88	4575.94	4563.56	4482.56	4353.75	4177.69	3906.56	3654.56
225.0	4536.56	4536.00	4522.50	4501.69	4465.13	4377.94	4251.94	4057.88	3820.50
270.0	4545.00	4552.31	4534.88	4521.94	4502.25	4456.69	4366.13	4237.88	4035.38
315.0	4543.31	4524.19	4512.38	4497.75	4471.88	4407.75	4312.13	4173.19	3931.31
360.0	4584.94	4600.13	4583.81	4565.25	4556.25	4519.13	4440.38	4279.50	4070.25
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3854.25	3560.63	3257.44	2898.56	2554.88	2287.13	2035.13	1769.63	1593.00
45.0	3562.31	3269.81	2924.44	2566.13	2284.31	2006.44	1791.56	1584.00	1406.25
90.0	3362.06	3018.38	2704.50	2376.56	2085.19	1859.63	1639.13	1468.13	1283.63
135.0	3458.81	3153.94	2836.69	2452.50	2172.94	1935.56	1683.00	1511.44	1365.75
180.0	3321.00	3002.06	2648.81	2361.94	2079.00	1836.56	1648.13	1463.63	1326.94
225.0	3576.38	3252.94	2904.19	2596.50	2306.25	2025.00	1784.81	1594.69	1429.88
270.0	3795.19	3548.25	3213.00	2899.69	2552.63	2239.31	1989.00	1798.88	1537.88
315.0	3699.00	3386.81	3074.63	2716.31	2377.13	2115.56	1890.56	1652.06	1482.19
360.0	3854.25	3560.63	3257.44	2898.56	2554.88	2287.13	2035.13	1769.63	1593.00
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1445.06	1283.06	1177.88	1087.88	1002.38	927.56	864.56	804.94	758.81
45.0	1264.50	1146.38	1035.00	955.69	884.25	813.38	755.44	713.25	668.81
90.0	1116.34	1054.63	965.87	870.98	806.23	749.08	698.40	650.53	606.54
135.0	1203.19	1101.38	1015.88	934.88	861.75	803.81	753.75	714.94	668.25
180.0	1108.13	1086.13	1007.10	936.56	862.71	813.54	767.53	716.12	673.37
225.0	1262.25	1110.88	1051.93	950.63	886.44	827.61	766.01	716.40	677.14
270.0	1386.00	1269.00	1113.19	1017.00	946.13	856.69	785.81	733.50	683.44
315.0	1325.25	1115.49	1104.08	999.00	928.18	861.64	800.27	750.43	710.44
360.0	1445.06	1283.06	1177.88	1087.88	1002.38	927.56	864.56	804.94	758.81
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	708.19	655.31	604.69	546.19	490.50	440.44	388.13	322.31	288.56
45.0	622.13	576.00	522.00	471.38	416.81	364.50	319.50	288.00	225.17
90.0	555.69	502.82	456.98	404.89	360.06	312.19	266.68	228.32	188.94
135.0	622.13	574.31	519.19	464.63	414.56	365.06	307.69	285.75	220.05
180.0	626.57	571.39	514.01	464.96	407.19	354.94	299.98	246.94	206.27
225.0	631.58	586.74	535.84	482.79	435.49	382.33	330.19	286.03	245.08
270.0	639.56	594.00	537.19	491.06	449.44	392.63	349.31	307.13	285.19
315.0	665.49	620.66	566.16	511.03	462.43	406.13	351.39	305.38	260.94
360.0	708.19	655.31	604.69	546.19	490.50	440.44	388.13	322.31	288.56
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	230.40	173.98	134.89	102.54	71.94	43.03	30.21	20.93	18.00
45.0	185.91	149.18	107.72	77.74	52.59	34.43	23.91	20.03	16.93
90.0	150.53	118.69	91.24	59.23	39.83	29.14	22.89	19.97	17.38
135.0	171.11	135.00	101.03	67.44	43.14	30.49	22.56	19.63	16.20
180.0	161.27	113.74	86.34	55.24	37.63	26.33	21.26	18.28	15.13
225.0	194.63	158.01	122.51	82.13	56.48	39.21	27.45	22.67	19.63
270.0	213.41	177.36	139.61	104.91	78.81	52.26	35.49	26.66	22.50
315.0	206.21	166.50	130.33	88.37	60.13	39.99	26.16	20.31	17.55
360.0	230.40	173.98	134.89	102.54	71.94	43.03	30.21	20.93	18.00

NATA 1653-N

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	14.91	12.32	11.42	10.74	10.35	10.01	9.73	9.45	9.23
45.0	14.12	13.22	12.43	11.98	11.31	10.69	10.13	9.62	9.45
90.0	15.81	15.02	14.23	13.61	12.99	12.66	12.60	12.83	13.16
135.0	14.12	13.61	13.22	13.22	13.05	12.71	12.71	12.43	11.98
180.0	13.89	13.56	13.33	13.28	12.99	12.83	12.54	11.98	11.19
225.0	16.31	15.02	14.12	13.67	13.61	13.44	13.39	13.39	13.28
270.0	19.69	16.82	15.58	14.79	14.01	13.05	12.49	11.81	11.36
315.0	13.89	12.32	11.53	10.86	10.58	10.24	9.79	9.56	9.28
360.0	14.91	12.32	11.42	10.74	10.35	10.01	9.73	9.45	9.23
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	9.06	8.83	8.72	8.55	8.44	8.33	8.27	8.21	8.16
45.0	9.34	9.17	9.23	9.34	9.62	10.13	10.63	11.31	11.48
90.0	13.50	13.89	13.89	13.84	13.56	13.11	12.43	11.64	10.86
135.0	11.64	11.19	10.46	9.84	9.28	8.83	8.49	8.04	7.88
180.0	10.91	10.41	9.34	9.00	8.72	8.38	8.27	8.10	8.04
225.0	12.88	12.83	12.54	11.81	11.31	10.86	10.52	9.84	9.51
270.0	11.36	11.31	11.59	12.04	12.49	12.99	13.50	13.95	14.18
315.0	9.06	8.89	8.72	8.61	8.55	8.55	8.49	8.55	8.78
360.0	9.06	8.83	8.72	8.55	8.44	8.33	8.27	8.21	8.16
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.10	8.10	8.10	7.99	7.93	7.88	7.82	7.76	7.65
45.0	11.36	11.03	10.52	9.56	8.78	8.27	7.88	7.59	7.54
90.0	10.18	9.51	8.83	8.33	8.04	7.82	7.65	7.54	7.48
135.0	7.76	7.71	7.65	7.59	7.54	7.43	7.37	7.31	7.31
180.0	8.04	7.99	7.93	7.99	7.93	7.82	7.76	7.65	7.54
225.0	9.39	9.17	9.06	8.78	8.38	8.16	7.88	7.54	7.37
270.0	13.61	13.11	11.98	10.86	9.96	8.83	8.33	7.99	7.54
315.0	8.94	9.11	9.23	9.34	9.17	8.72	8.44	7.93	7.48
360.0	8.10	8.10	8.10	7.99	7.93	7.88	7.82	7.76	7.65
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.59	7.54	7.43	7.37	7.31	7.20	7.14	6.98	7.03
45.0	7.48	7.43	7.37	7.26	7.14	7.14	7.03	6.98	6.86
90.0	7.43	7.37	7.37	7.31	7.26	7.20	7.09	7.03	6.92
135.0	7.20	7.14	7.09	6.98	6.92	6.86	6.81	6.75	6.69
180.0	7.43	7.37	7.31	7.26	7.20	7.14	7.03	6.98	6.86
225.0	7.31	7.31	7.31	7.20	7.20	7.14	7.03	7.03	6.92
270.0	7.48	7.43	7.37	7.31	7.26	7.26	7.14	7.14	7.03
315.0	7.31	7.20	7.14	7.09	7.03	6.98	6.92	6.86	6.81
360.0	7.59	7.54	7.43	7.37	7.31	7.20	7.14	6.98	7.03
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.98	6.86	6.75	6.69	6.69	6.64	6.58	6.47	6.41
45.0	6.81	6.75	6.69	6.64	6.47	6.41	6.30	6.19	6.13
90.0	6.81	6.69	6.64	6.53	6.41	6.24	6.19	6.13	6.08
135.0	6.58	6.53	6.47	6.47	6.41	6.30	6.24	6.19	6.19
180.0	6.86	6.86	6.86	6.86	6.81	6.58	6.58	6.58	6.58
225.0	6.92	6.86	6.75	6.64	6.53	6.47	6.36	6.24	6.24
270.0	6.92	6.86	6.75	6.69	6.58	6.47	6.36	6.19	6.08
315.0	6.75	6.69	6.58	6.53	6.47	6.47	6.41	6.24	6.19
360.0	6.98	6.86	6.75	6.69	6.69	6.64	6.58	6.47	6.41

Intensity data(cd)

C/γ(°)	90.0
0.0	6.36
45.0	6.02
90.0	6.02
135.0	6.19
180.0	6.58
225.0	6.24
270.0	6.02
315.0	6.13
360.0	6.36