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NATA

LumCAT: 1656-S
Luminaire: 92.70.126.00
Report No: NATA0100
Test No: GC2019011721
LampCAT: LUMINUS CHM-9-XD20
Lamp flux(lm): 1829.0
Number of Lamps: 1
Length(mm): 47
Phm Type: C

Voltage(V): 34.9000
Current(A): 0.4000
Power (W): 13.9600
PF: 0.0000
Ballast type: DC
Width(mm): 47
Height(mm): 0

Photometric Results

Lumens(lm): 1653.54
Efficiency(%): 90.41%
Lumens(lm)/Power(W): 118.63
Central intensity(cd): 10604.390
Maximum intensity(cd): 10604.390
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=15.8
[C90/270]Total=15.8
Field angle(10%Imax): [C0/180]Total=36.6
[C90/270]Total=36.6
Maximum s/h(1/2): C0_180=0.27 C90_270=0.27
Maximum s/h(1/4): C0_180=0.29 C90_270=0.29
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.54%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.537%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10604.391	2.537	2.537	.139%	.153%
1.0	10509.539	20.114	22.651	1.100%	1.370%
2.0	10224.211	39.129	61.78	2.139%	3.736%
3.0	9673.875	55.520	117.3	3.036%	7.094%
4.0	8944.102	68.418	185.719	3.741%	11.232%
5.0	8010.773	76.564	262.282	4.186%	15.862%
6.0	7019.648	80.464	342.746	4.399%	20.728%
7.0	6037.664	80.689	423.435	4.412%	25.608%
8.0	5224.922	79.742	503.177	4.360%	30.430%
9.0	4390.242	75.313	578.491	4.118%	34.985%
10.0	3677.625	70.031	648.522	3.829%	39.220%
11.0	3143.180	65.769	714.29	3.596%	43.198%
12.0	2647.195	60.355	774.646	3.300%	46.848%
13.0	2223.633	54.853	829.499	2.999%	50.165%
14.0	1894.992	50.273	879.772	2.749%	53.205%
15.0	1621.969	46.035	925.807	2.517%	55.989%
16.0	1381.718	41.765	967.572	2.283%	58.515%
17.0	1213.959	38.922	1006.494	2.128%	60.869%
18.0	1087.538	36.853	1043.347	2.015%	63.098%
19.0	998.859	35.661	1079.009	1.950%	65.254%
20.0	912.635	34.230	1113.238	1.871%	67.324%
21.0	844.805	33.200	1146.438	1.815%	69.332%
22.0	797.006	32.741	1179.179	1.790%	71.312%
23.0	756.935	32.433	1211.612	1.773%	73.274%
24.0	722.981	32.247	1243.859	1.763%	75.224%
25.0	697.085	32.306	1276.165	1.766%	77.178%
26.0	676.069	32.500	1308.665	1.777%	79.143%
27.0	657.091	32.713	1341.379	1.789%	81.121%
28.0	642.192	33.062	1374.44	1.808%	83.121%
29.0	624.797	33.217	1407.657	1.816%	85.130%
30.0	598.409	32.811	1440.468	1.794%	87.114%
31.0	560.011	31.629	1472.098	1.729%	89.027%
32.0	502.573	29.205	1501.303	1.597%	90.793%
33.0	442.308	26.417	1527.72	1.444%	92.391%
34.0	377.557	23.152	1550.872	1.266%	93.791%
35.0	313.664	19.729	1570.601	1.079%	94.984%
36.0	245.805	15.844	1586.445	.866%	95.942%
37.0	184.936	12.205	1598.65	.667%	96.680%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	119.820	8.089	1606.74	.442%	97.169%
39.0	71.663	4.946	1611.685	.270%	97.469%
40.0	41.217	2.905	1614.591	.159%	97.644%
41.0	26.269	1.890	1616.481	.103%	97.759%
42.0	19.976	1.466	1617.946	.080%	97.847%
43.0	15.532	1.162	1619.108	.064%	97.917%
44.0	12.171	0.927	1620.035	.051%	97.974%
45.0	10.273	0.797	1620.832	.044%	98.022%
46.0	9.724	0.767	1621.599	.042%	98.068%
47.0	9.415	0.755	1622.354	.041%	98.114%
48.0	9.176	0.748	1623.102	.041%	98.159%
49.0	8.958	0.741	1623.843	.041%	98.204%
50.0	8.740	0.734	1624.577	.040%	98.248%
51.0	8.578	0.731	1625.308	.040%	98.292%
52.0	8.416	0.727	1626.036	.040%	98.336%
53.0	8.255	0.723	1626.758	.040%	98.380%
54.0	8.135	0.722	1627.48	.039%	98.424%
55.0	8.009	0.719	1628.2	.039%	98.467%
56.0	7.903	0.718	1628.918	.039%	98.511%
57.0	7.791	0.716	1629.635	.039%	98.554%
58.0	7.713	0.717	1630.352	.039%	98.597%
59.0	7.650	0.719	1631.071	.039%	98.641%
60.0	7.559	0.718	1631.789	.039%	98.684%
61.0	7.481	0.718	1632.506	.039%	98.728%
62.0	7.432	0.720	1633.226	.039%	98.771%
63.0	7.362	0.719	1633.945	.039%	98.815%
64.0	7.327	0.722	1634.667	.039%	98.858%
65.0	7.277	0.723	1635.391	.040%	98.902%
66.0	7.235	0.725	1636.115	.040%	98.946%
67.0	7.186	0.725	1636.841	.040%	98.990%
68.0	7.144	0.726	1637.567	.040%	99.034%
69.0	7.130	0.730	1638.297	.040%	99.078%
70.0	7.102	0.732	1639.029	.040%	99.122%
71.0	7.080	0.734	1639.763	.040%	99.167%
72.0	7.052	0.736	1640.499	.040%	99.211%
73.0	7.038	0.738	1641.237	.040%	99.256%
74.0	7.003	0.738	1641.975	.040%	99.300%
75.0	6.996	0.741	1642.716	.041%	99.345%

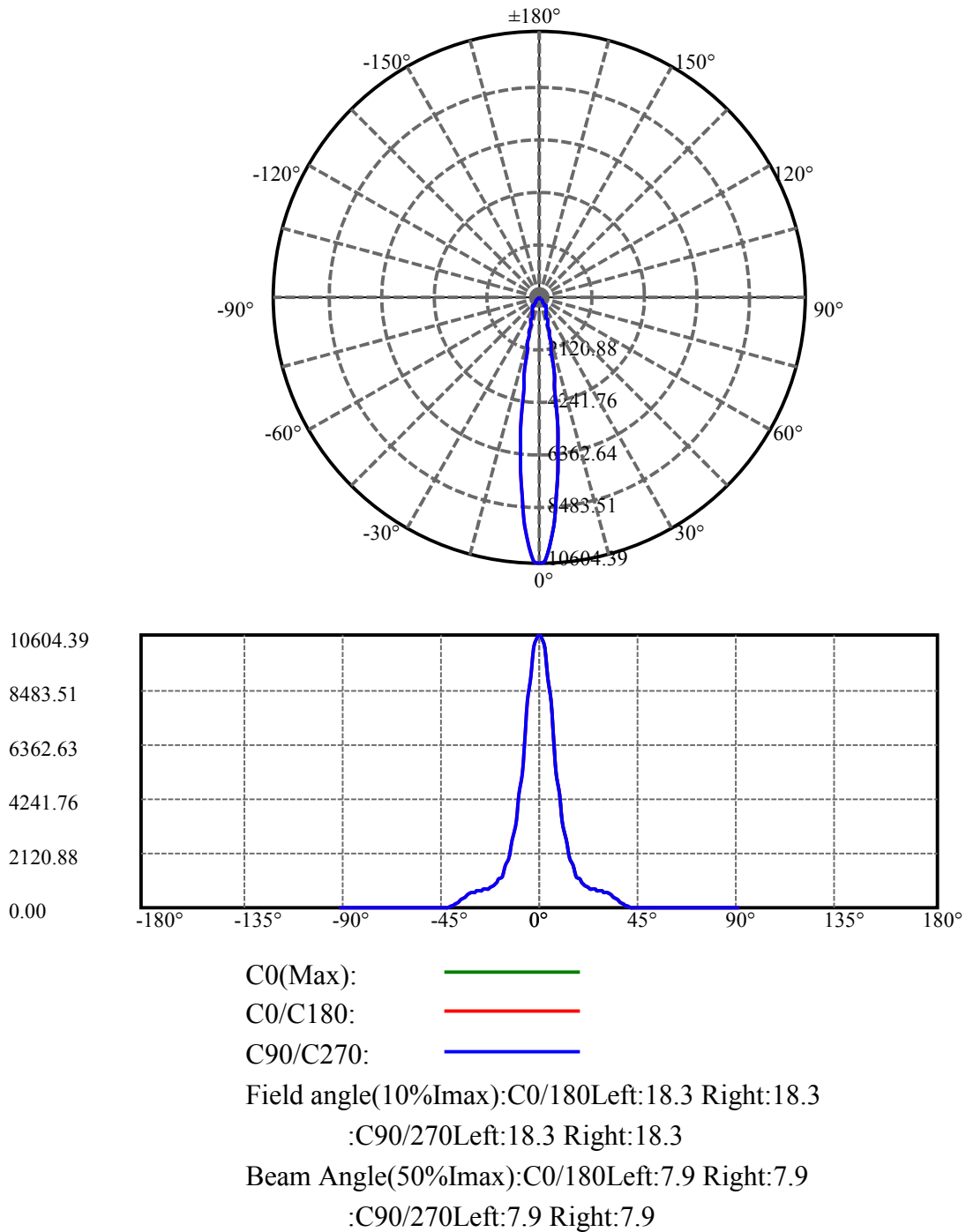
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.982	0.743	1643.459	.041%	99.390%
77.0	6.961	0.744	1644.203	.041%	99.435%
78.0	6.940	0.744	1644.947	.041%	99.480%
79.0	6.954	0.749	1645.696	.041%	99.525%
80.0	6.926	0.748	1646.444	.041%	99.571%
81.0	6.919	0.749	1647.193	.041%	99.616%
82.0	6.912	0.751	1647.944	.041%	99.661%
83.0	6.898	0.751	1648.694	.041%	99.707%
84.0	6.877	0.750	1649.444	.041%	99.752%
85.0	6.855	0.749	1650.193	.041%	99.797%
86.0	6.820	0.746	1650.939	.041%	99.842%
87.0	6.799	0.745	1651.684	.041%	99.888%
88.0	6.785	0.744	1652.427	.041%	99.932%
89.0	6.792	0.745	1653.172	.041%	99.978%
90.0	6.778	0.372	1653.544	.020%	100.000%

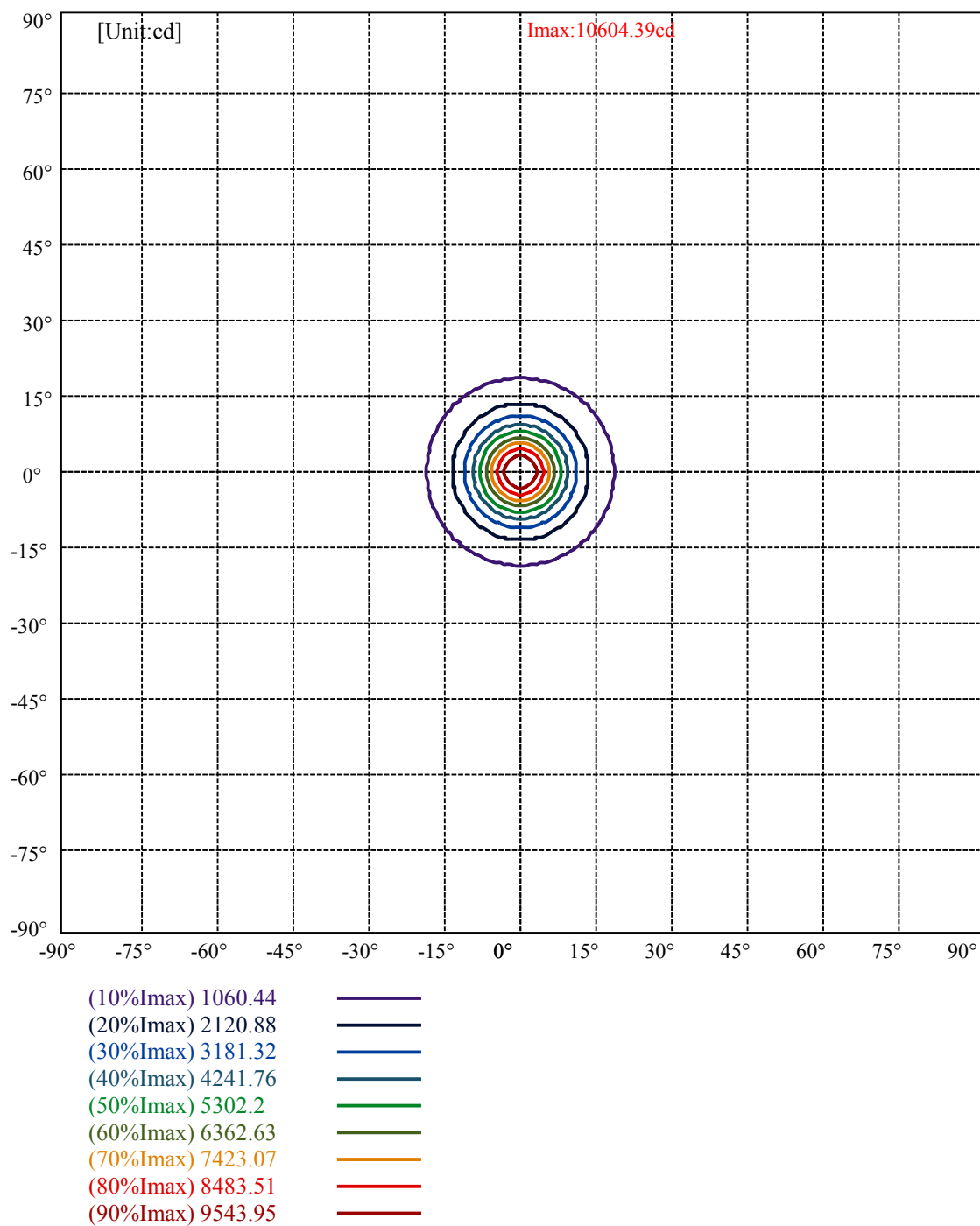
ZONAL LUMEN SUMMARY

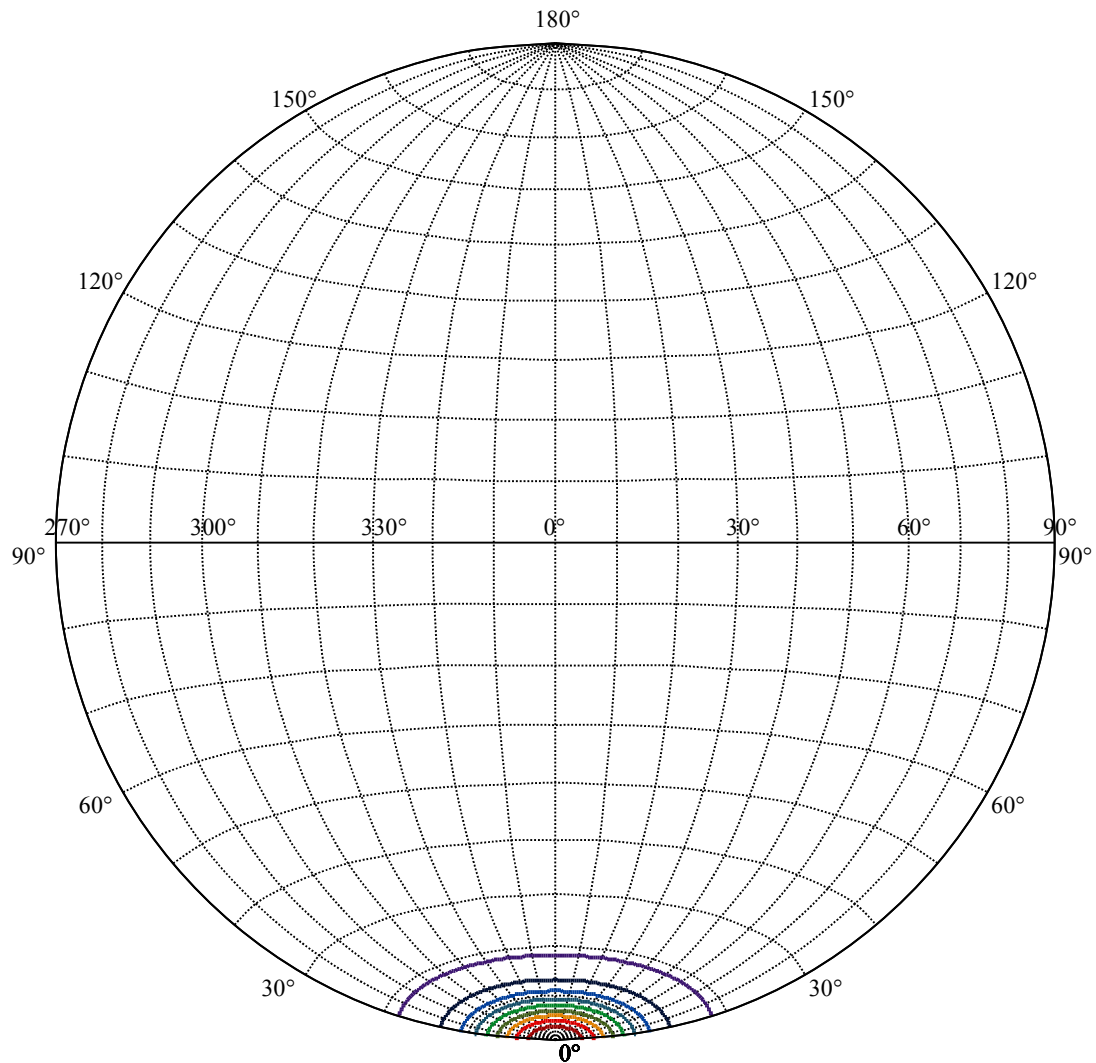
Zone	Lumens	%Lamp	%Fixt
0-30	1440.47	78.76%	87.11%
0-40	1614.59	88.28%	97.64%
0-60	1631.79	89.22%	98.68%
0-90	1653.17	90.39%	99.98%
0-120	1653.17	90.39%	99.98%
0-180	1653.54	90.41%	100.00%
60-90	22.10	1.21%	1.34%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.43	1322.84	72.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	648.52
10-20	464.72
20-30	327.23
30-40	174.12
40-50	9.99
50-60	7.21
60-70	7.24
70-80	7.41
80-90	6.73
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







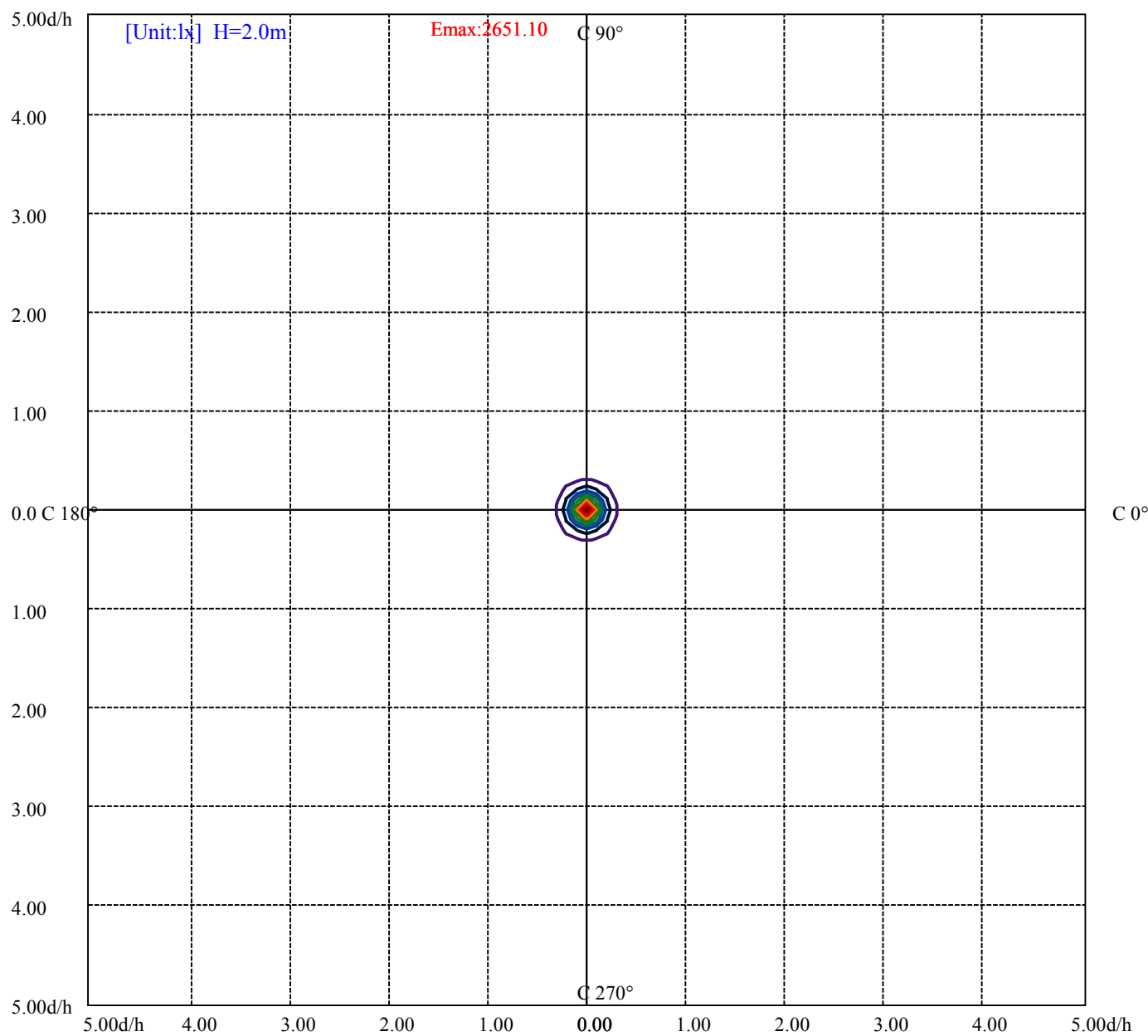
House

[Unit:cd]

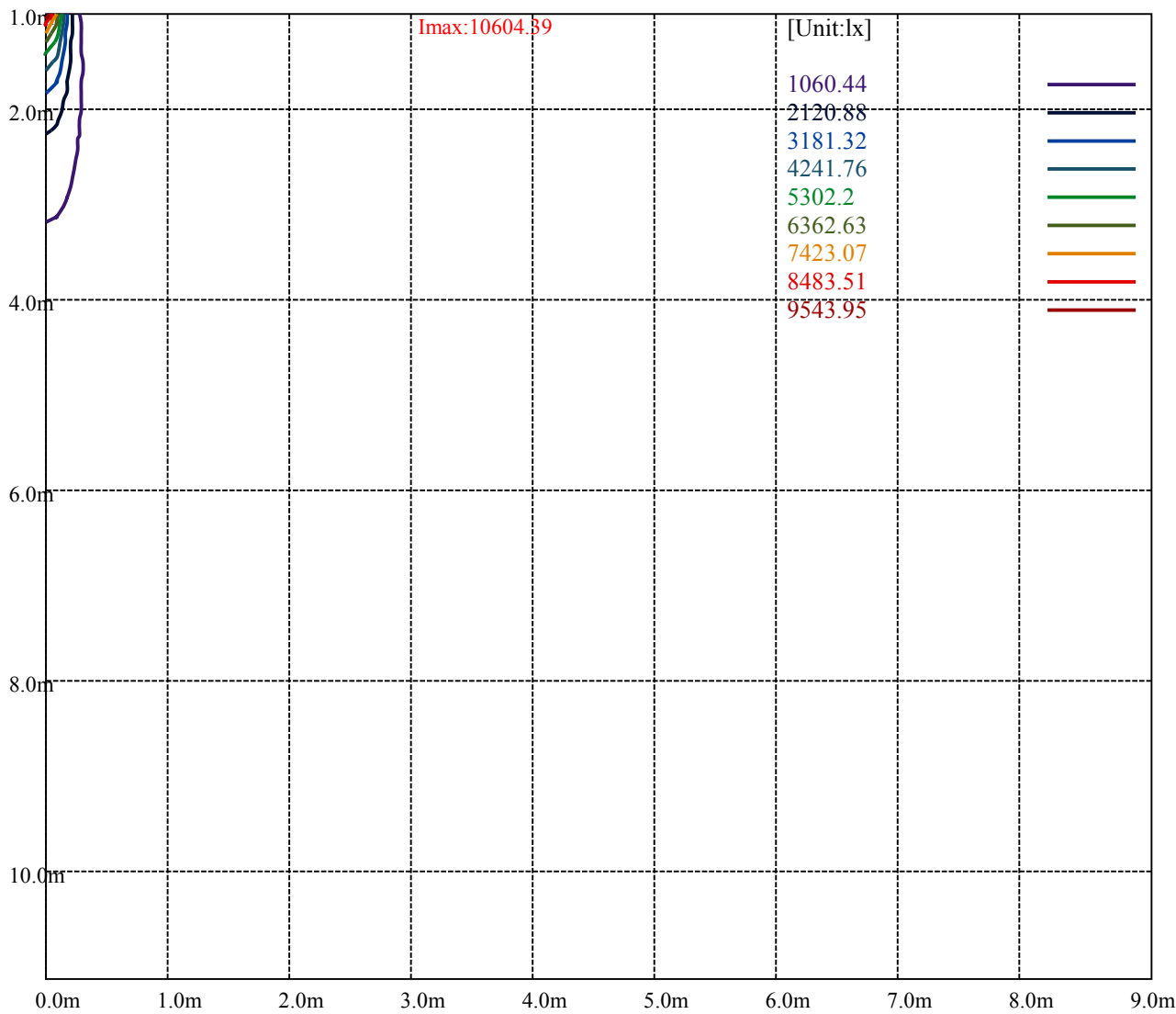
Road

Imax:10604.39

(10%Imax)	1060.44	—
(20%Imax)	2120.88	—
(30%Imax)	3181.32	—
(40%Imax)	4241.76	—
(50%Imax)	5302.2	—
(60%Imax)	6362.63	—
(70%Imax)	7423.07	—
(80%Imax)	8483.51	—
(90%Imax)	9543.95	—



(10%E _{max}) 265.11	—
(20%E _{max}) 530.22	—
(30%E _{max}) 795.3275	—
(40%E _{max}) 1060.438	—
(50%E _{max}) 1325.547	—
(60%E _{max}) 1590.657	—
(70%E _{max}) 1855.765	—
(80%E _{max}) 2120.875	—
(90%E _{max}) 2385.985	—



Luminance Table

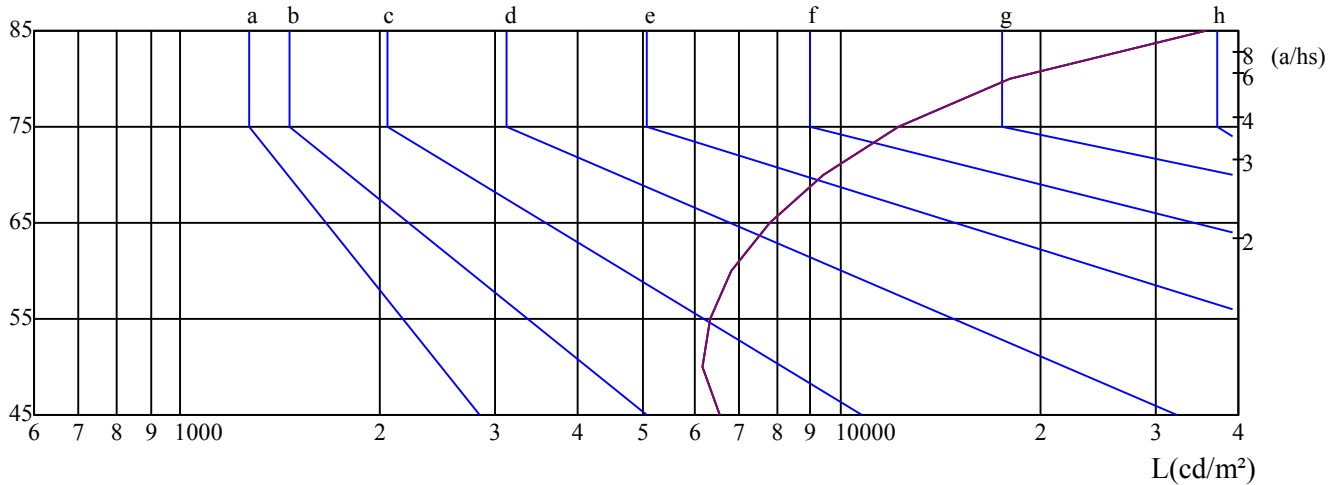
γ	45	50	55	60	65	70	75	80	85
C0	6577	6155	6321	6843	7795	9400	12237	18055	35608
C45	6577	6155	6321	6843	7795	9400	12237	18055	35608
C90	6577	6155	6321	6843	7795	9400	12237	18055	35608

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7795	7795	7795	12237	12237	12237	35608	35608	35608

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

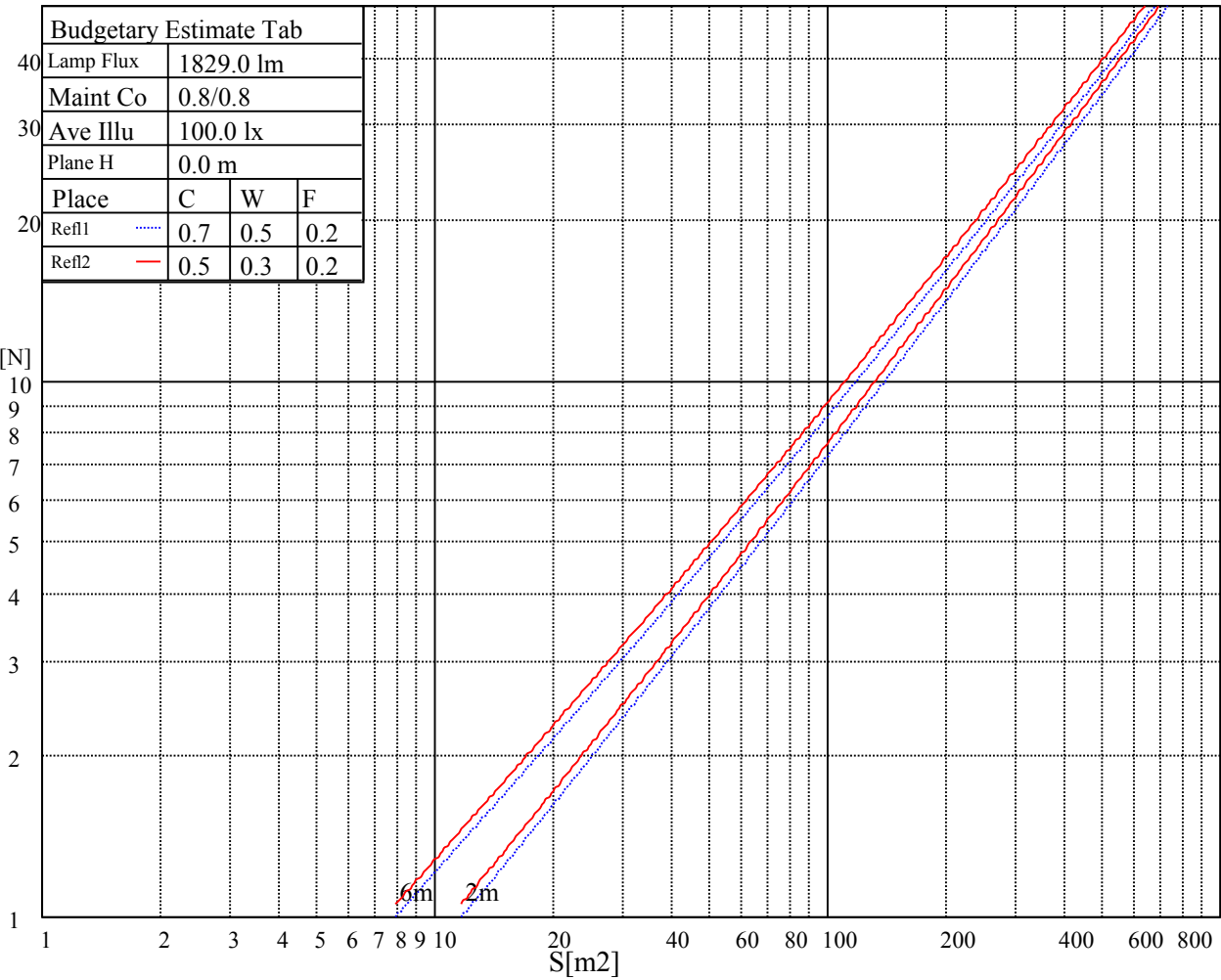
 $\gamma(^{\circ})$ 

C0 ———

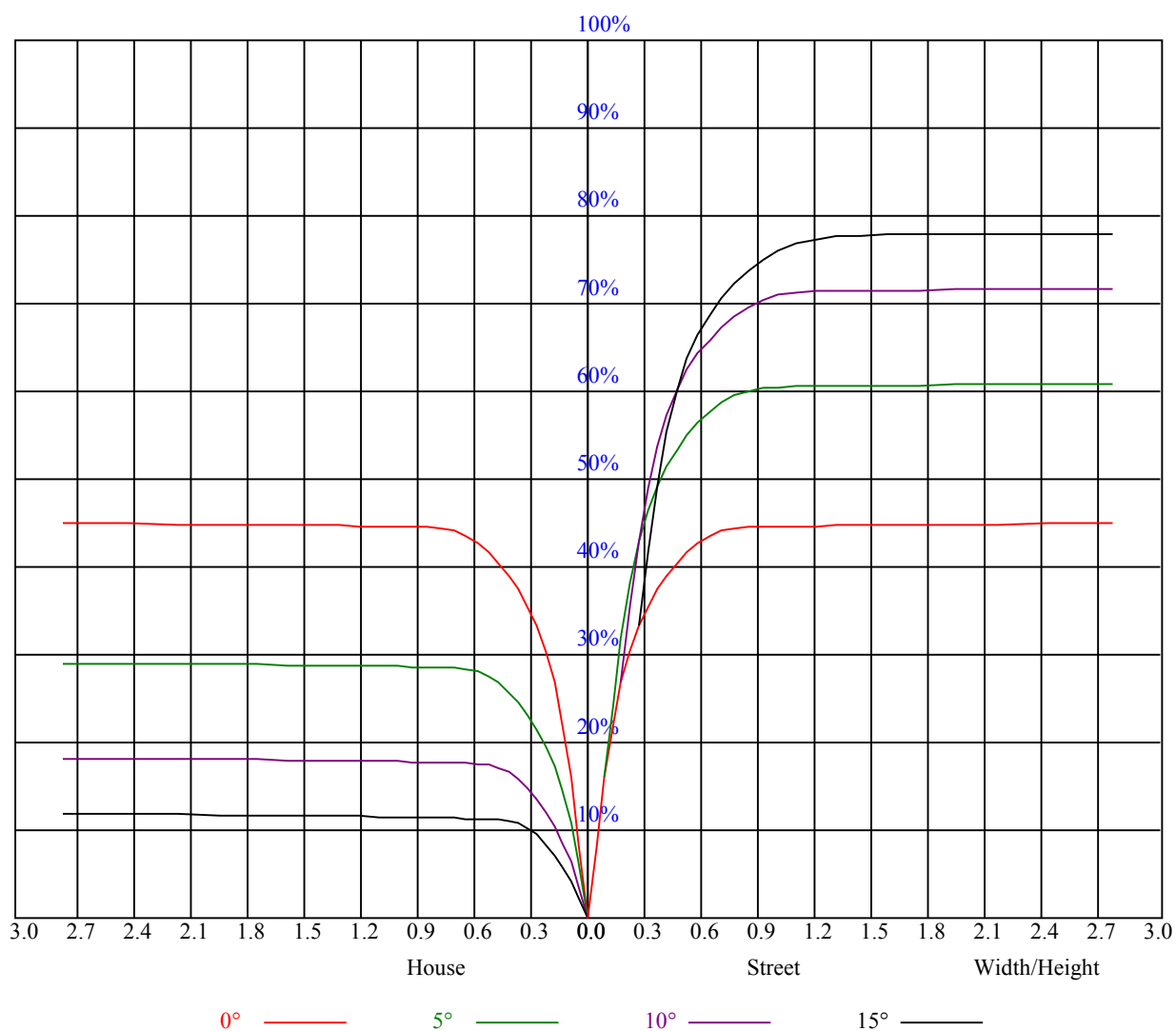
C45 ———

C90 ———

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	5.54	6.45	5.91	6.76	7.08	5.53	6.44	5.90	6.75	7.07
	3H	8.69	9.49	9.07	9.83	10.20	8.68	9.48	9.06	9.82	10.19
	4H	10.42	11.16	10.83	11.52	11.91	10.40	11.15	10.81	11.50	11.89
	6H	12.39	13.07	12.81	13.44	13.84	12.36	13.04	12.78	13.41	13.81
	8H	13.48	14.11	13.91	14.51	14.92	13.44	14.08	13.88	14.47	14.88
	12H	15.23	15.84	15.67	16.23	16.66	15.20	15.80	15.63	16.19	16.62
4H	2H	6.42	7.17	6.83	7.52	7.91	6.42	7.16	6.83	7.51	7.91
	3H	9.82	10.43	10.24	10.84	11.25	9.82	10.43	10.23	10.84	11.24
	4H	11.72	12.26	12.16	12.69	13.14	11.71	12.25	12.15	12.68	13.13
	6H	13.85	14.31	14.32	14.76	15.24	13.83	14.29	14.30	14.74	15.22
	8H	15.04	15.47	15.52	15.92	16.40	15.01	15.44	15.49	15.90	16.37
	12H	16.70	17.07	17.19	17.56	18.04	16.66	17.04	17.16	17.53	18.00
8H	4H	12.44	12.87	12.92	13.33	13.80	12.43	12.87	12.91	13.32	13.80
	6H	14.85	15.19	15.36	15.69	16.18	14.83	15.17	15.34	15.67	16.16
	8H	16.22	16.53	16.76	17.05	17.55	16.20	16.50	16.74	17.03	17.53
	12H	18.02	18.28	18.54	18.78	19.36	17.99	18.25	18.51	18.75	19.33
12H	4H	12.65	13.02	13.14	13.51	13.99	12.64	13.01	13.14	13.50	13.98
	6H	15.36	15.46	15.70	15.94	16.49	15.34	15.45	15.69	15.92	16.47
	8H	16.67	16.93	17.20	17.43	18.01	16.65	16.91	17.18	17.41	17.99
Variation with the observer position at spacings:											
S = 1.0H		5.8/-6.8					5.8/-6.8				
S = 1.5H		7.8/-4.9					7.8/-4.9				
S = 2.0H		9.0/-3.6					9.0/-3.6				
Standard tables:		BK3					BK3				
Uncorrected UGR		2.6					2.6				



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	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.91
1	1.01	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.91	0.91	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	0.85	0.84	0.83
3	0.92	0.88	0.85	0.91	0.87	0.85	0.88	0.86	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.80
4	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.80	0.83	0.81	0.79	0.82	0.80	0.78	0.77
5	0.84	0.80	0.77	0.83	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.79	0.77	0.75	0.74
6	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
8	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63



NATA 1656-S

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	10568.25	10589.63	10422.00	10008.00	9410.06	8494.88	7416.56	6469.31	5711.63		
45.0	10635.75	10521.00	10161.00	9631.13	8889.75	7745.06	6780.38	5882.06	4965.19		
90.0	10597.50	10392.19	10001.81	9234.56	8394.75	7443.56	6391.69	5419.69	4629.38		
135.0	10616.06	10518.19	10237.50	9637.88	8928.56	7949.25	6894.00	6009.19	5201.44		
180.0	10568.25	10343.25	9965.25	9303.19	8411.63	7518.38	6616.69	5566.50	4799.25		
225.0	10635.75	10569.94	10328.63	9789.75	9142.88	8322.75	7308.56	6339.38	5532.75		
270.0	10597.50	10616.06	10424.25	10064.81	9429.19	8548.31	7642.69	6619.50	5777.44		
315.0	10616.06	10526.06	10253.25	9721.69	8946.00	8064.00	7106.63	5995.69	5182.31		
360.0	10568.25	10589.63	10422.00	10008.00	9410.06	8494.88	7416.56	6469.31	5711.63		
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0		
0.0	4650.75	3976.31	3452.06	2818.13	2350.69	2048.06	1694.81	1446.75	1295.44		
45.0	4145.63	3510.56	2911.50	2469.38	2058.75	1731.94	1500.75	1297.13	1144.69		
90.0	3845.81	3197.25	2724.19	2279.25	1951.31	1652.06	1413.00	1122.24	1107.06		
135.0	4294.69	3655.69	3109.50	2599.88	2179.13	1870.88	1588.50	1365.19	1206.56		
180.0	4106.81	3374.44	2887.88	2475.00	2082.38	1765.69	1537.31	1329.19	1115.44		
225.0	4701.38	3959.44	3383.44	2839.50	2435.06	2060.44	1755.56	1532.81	1351.13		
270.0	4925.25	4166.44	3567.94	3049.88	2515.50	2163.38	1867.50	1568.25	1382.06		
315.0	4451.63	3580.88	3108.94	2646.56	2216.25	1867.50	1618.31	1392.19	1109.31		
360.0	4650.75	3976.31	3452.06	2818.13	2350.69	2048.06	1694.81	1446.75	1295.44		
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
0.0	1129.50	1026.56	945.56	865.13	815.63	775.13	734.63	708.75	687.94		
45.0	1034.44	956.25	861.75	808.88	767.81	726.75	698.06	678.38	657.00		
90.0	977.29	898.88	837.51	778.84	742.39	712.91	683.04	663.92	647.89		
135.0	1065.38	969.19	884.81	820.13	773.44	734.63	704.81	682.88	663.75		
180.0	1046.31	955.80	876.54	816.64	775.35	738.62	712.29	688.39	668.81		
225.0	1116.84	1065.38	976.16	888.75	833.96	789.47	748.74	716.51	693.73		
270.0	1234.69	1117.13	1000.69	927.00	860.63	813.94	769.50	733.50	707.63		
315.0	1095.86	1001.70	918.06	853.09	806.85	764.04	732.77	704.36	681.81		
360.0	1129.50	1026.56	945.56	865.13	815.63	775.13	734.63	708.75	687.94		
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0		
0.0	667.13	652.50	639.00	622.13	586.13	541.69	479.25	410.63	344.81		
45.0	640.13	628.88	608.63	578.25	533.25	465.75	406.13	344.25	289.13		
90.0	630.90	618.41	594.79	544.67	502.48	438.30	372.09	311.79	251.27		
135.0	645.19	631.69	617.06	585.00	536.63	480.38	414.00	345.38	286.31		
180.0	653.51	639.06	619.82	589.16	544.78	476.04	415.97	352.24	278.38		
225.0	672.64	656.55	639.62	622.41	592.14	540.79	481.28	420.69	356.34		
270.0	682.88	663.19	648.56	632.25	606.94	560.25	509.63	438.19	376.31		
315.0	664.37	647.27	630.90	613.41	577.74	517.39	460.13	397.29	326.76		
360.0	667.13	652.50	639.00	622.13	586.13	541.69	479.25	410.63	344.81		
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0		
0.0	285.75	202.78	136.80	82.63	45.96	27.23	21.77	17.49	13.78		
45.0	201.26	147.26	87.24	49.33	28.74	22.78	17.38	13.61	10.80		
90.0	179.33	127.41	83.03	40.16	25.82	21.71	16.71	12.32	10.24		
135.0	248.40	158.34	100.13	60.36	30.83	22.78	18.56	14.68	11.53		
180.0	208.07	149.18	94.16	54.84	28.97	21.71	17.66	13.61	10.74		
225.0	273.99	211.44	154.41	91.58	52.37	30.83	22.50	16.82	13.28		
270.0	312.75	288.00	170.66	116.49	73.13	38.31	24.47	19.24	14.46		
315.0	256.89	195.08	132.13	77.91	43.93	24.81	20.76	16.48	12.54		
360.0	285.75	202.78	136.80	82.63	45.96	27.23	21.77	17.49	13.78		

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Intensity data(cd)										Appendix Page: 18 Total:19	
C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0		
0.0	10.52	9.79	9.45	9.17	8.89	8.66	8.55	8.38	8.21		
45.0	9.68	9.39	9.17	9.00	8.78	8.61	8.49	8.33	8.16		
90.0	9.62	9.39	9.11	8.89	8.72	8.55	8.38	8.33	8.16		
135.0	9.96	9.56	9.34	9.11	8.89	8.72	8.55	8.38	8.27		
180.0	9.96	9.68	9.34	9.11	8.94	8.72	8.55	8.38	8.21		
225.0	10.69	10.01	9.68	9.39	9.17	8.94	8.72	8.55	8.38		
270.0	11.42	10.18	9.79	9.51	9.28	9.00	8.83	8.61	8.38		
315.0	10.35	9.79	9.45	9.23	9.00	8.72	8.55	8.38	8.27		
360.0	10.52	9.79	9.45	9.17	8.89	8.66	8.55	8.38	8.21		
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	8.10	7.99	7.88	7.76	7.71	7.65	7.54	7.48	7.43		
45.0	8.04	7.93	7.82	7.71	7.65	7.59	7.48	7.43	7.37		
90.0	7.99	7.88	7.82	7.71	7.65	7.59	7.54	7.48	7.37		
135.0	8.16	8.04	7.88	7.82	7.71	7.65	7.54	7.48	7.43		
180.0	8.10	7.99	7.88	7.76	7.71	7.59	7.54	7.43	7.37		
225.0	8.21	8.10	7.99	7.82	7.76	7.71	7.59	7.48	7.48		
270.0	8.33	8.16	8.04	7.93	7.82	7.76	7.65	7.59	7.54		
315.0	8.16	7.99	7.93	7.82	7.71	7.65	7.59	7.48	7.48		
360.0	8.10	7.99	7.88	7.76	7.71	7.65	7.54	7.48	7.43		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	7.37	7.31	7.26	7.20	7.14	7.14	7.14	7.14	7.09		
45.0	7.31	7.31	7.26	7.26	7.20	7.14	7.09	7.09	7.09		
90.0	7.37	7.31	7.26	7.20	7.14	7.14	7.14	7.09	7.09		
135.0	7.37	7.37	7.26	7.26	7.20	7.14	7.14	7.09	7.03		
180.0	7.31	7.26	7.26	7.20	7.14	7.09	7.09	7.03	7.03		
225.0	7.37	7.31	7.31	7.26	7.20	7.14	7.09	7.09	7.09		
270.0	7.43	7.37	7.31	7.26	7.26	7.20	7.20	7.20	7.14		
315.0	7.37	7.37	7.31	7.26	7.20	7.14	7.14	7.09	7.09		
360.0	7.37	7.31	7.26	7.20	7.14	7.14	7.14	7.14	7.09		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	7.09	7.03	6.98	6.98	6.98	6.98	6.98	6.98	6.92		
45.0	7.03	7.03	6.98	6.98	6.98	6.92	6.92	6.92	6.86		
90.0	7.03	7.03	7.03	7.03	6.98	6.98	6.98	6.98	6.98		
135.0	7.03	7.03	7.03	6.98	6.98	6.98	6.92	6.98	6.92		
180.0	7.03	6.98	6.92	6.98	6.92	6.86	6.86	6.86	6.86		
225.0	7.03	7.03	6.98	6.98	6.98	6.92	6.92	6.92	6.92		
270.0	7.09	7.09	7.09	7.03	7.03	7.03	6.98	6.98	6.98		
315.0	7.09	7.09	7.03	7.03	7.03	7.03	6.98	7.03	6.98		
360.0	7.09	7.03	6.98	6.98	6.98	6.98	6.98	6.98	6.92		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	6.86	6.86	6.86	6.86	6.86	6.81	6.81	6.81	6.81		
45.0	6.92	6.92	6.86	6.86	6.86	6.81	6.81	6.81	6.81		
90.0	6.98	6.98	6.98	6.92	6.86	6.81	6.81	6.81	6.81		
135.0	6.92	6.92	6.92	6.86	6.86	6.86	6.81	6.81	6.81		
180.0	6.86	6.86	6.86	6.81	6.81	6.75	6.75	6.75	6.75		
225.0	6.86	6.86	6.86	6.86	6.86	6.86	6.81	6.75	6.75		
270.0	6.98	6.98	6.92	6.92	6.86	6.86	6.81	6.81	6.81		
315.0	6.98	6.92	6.92	6.92	6.86	6.81	6.81	6.75	6.81		
360.0	6.86	6.86	6.86	6.86	6.86	6.81	6.81	6.81	6.81		

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Intensity data(cd)

Appendix Page: 19 Total:19

C/ γ (°)	90.0
0.0	6.75
45.0	6.75
90.0	6.81
135.0	6.81
180.0	6.75
225.0	6.75
270.0	6.81
315.0	6.81
360.0	6.75