
NATA

LumCAT: 3-1567-M	
Luminaire: BJB 47.319.2135	
Report No: NATA0100	Voltage(V): 36.7600
Test No: GC2019012102	Current(A): 0.5000
LampCAT: PHILIPS Certaflux slm 1205	Power (W): 18.3800
Lamp flux(lm): 2360.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2130.32
Efficiency(%): 90.27%
Lumens(lm)/Power(W): 116.00
Central intensity(cd): 7569.704
Maximum intensity(cd): 7569.704
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=24.4
[C90/270]Total=24.4
Field angle(10%Imax): [C0/180]Total=64.2
[C90/270]Total=64.2
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.41 C90_270=0.41
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.34%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.637%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7569.703	1.811	1.811	.077%	.085%
1.0	7545.234	14.440	16.251	.612%	.763%
2.0	7462.547	28.560	44.811	1.210%	2.104%
3.0	7326.984	42.051	86.862	1.782%	4.077%
4.0	7123.078	54.488	141.351	2.309%	6.635%
5.0	6792.609	64.921	206.272	2.751%	9.683%
6.0	6447.445	73.905	280.177	3.132%	13.152%
7.0	6045.188	80.790	360.966	3.423%	16.944%
8.0	5613.047	85.665	446.632	3.630%	20.965%
9.0	5190.117	89.035	535.667	3.773%	25.145%
10.0	4765.570	90.748	626.415	3.845%	29.405%
11.0	4305.867	90.097	716.512	3.818%	33.634%
12.0	3883.500	88.543	805.055	3.752%	37.790%
13.0	3422.391	84.425	889.48	3.577%	41.753%
14.0	2928.234	77.684	967.164	3.292%	45.400%
15.0	2529.281	71.787	1038.951	3.042%	48.770%
16.0	2148.820	64.952	1103.902	2.752%	51.819%
17.0	1824.609	58.500	1162.403	2.479%	54.565%
18.0	1583.648	53.665	1216.068	2.274%	57.084%
19.0	1411.383	50.389	1266.457	2.135%	59.449%
20.0	1245.952	46.731	1313.188	1.980%	61.643%
21.0	1162.048	45.667	1358.855	1.935%	63.786%
22.0	1088.543	44.717	1403.572	1.895%	65.886%
23.0	1034.613	44.331	1447.903	1.878%	67.967%
24.0	989.627	44.140	1492.044	1.870%	70.039%
25.0	955.083	44.263	1536.307	1.876%	72.116%
26.0	925.446	44.488	1580.795	1.885%	74.205%
27.0	897.870	44.700	1625.495	1.894%	76.303%
28.0	872.248	44.906	1670.401	1.903%	78.411%
29.0	846.802	45.020	1715.421	1.908%	80.524%
30.0	820.751	45.002	1760.423	1.907%	82.637%
31.0	792.928	44.784	1805.207	1.898%	84.739%
32.0	760.999	44.223	1849.43	1.874%	86.815%
33.0	716.681	42.804	1892.234	1.814%	88.824%
34.0	658.730	40.394	1932.629	1.712%	90.720%
35.0	582.314	36.627	1969.256	1.552%	92.439%
36.0	489.509	31.552	2000.808	1.337%	93.921%
37.0	404.550	26.699	2027.506	1.131%	95.174%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	320.372	21.630	2049.136	.917%	96.189%
39.0	221.140	15.261	2064.397	.647%	96.906%
40.0	148.254	10.450	2074.847	.443%	97.396%
41.0	85.029	6.117	2080.965	.259%	97.683%
42.0	44.009	3.229	2084.194	.137%	97.835%
43.0	26.037	1.947	2086.141	.083%	97.926%
44.0	20.925	1.594	2087.735	.068%	98.001%
45.0	17.796	1.380	2089.115	.058%	98.066%
46.0	15.546	1.226	2090.341	.052%	98.123%
47.0	13.605	1.091	2091.433	.046%	98.175%
48.0	12.157	0.991	2092.423	.042%	98.221%
49.0	11.201	0.927	2093.35	.039%	98.265%
50.0	10.624	0.892	2094.243	.038%	98.307%
51.0	10.343	0.881	2095.124	.037%	98.348%
52.0	10.167	0.879	2096.003	.037%	98.389%
53.0	9.977	0.874	2096.877	.037%	98.430%
54.0	9.816	0.871	2097.748	.037%	98.471%
55.0	9.696	0.871	2098.619	.037%	98.512%
56.0	9.612	0.874	2099.492	.037%	98.553%
57.0	9.485	0.872	2100.365	.037%	98.594%
58.0	9.401	0.874	2101.239	.037%	98.635%
59.0	9.330	0.877	2102.116	.037%	98.676%
60.0	9.274	0.881	2102.997	.037%	98.717%
61.0	9.211	0.883	2103.88	.037%	98.759%
62.0	9.176	0.888	2104.769	.038%	98.801%
63.0	9.113	0.890	2105.659	.038%	98.842%
64.0	9.070	0.894	2106.553	.038%	98.884%
65.0	9.056	0.900	2107.453	.038%	98.927%
66.0	9.007	0.902	2108.355	.038%	98.969%
67.0	8.972	0.906	2109.261	.038%	99.012%
68.0	8.937	0.909	2110.17	.039%	99.054%
69.0	8.916	0.913	2111.082	.039%	99.097%
70.0	8.888	0.916	2111.998	.039%	99.140%
71.0	8.859	0.919	2112.917	.039%	99.183%
72.0	8.838	0.922	2113.839	.039%	99.226%
73.0	8.817	0.925	2114.763	.039%	99.270%
74.0	8.789	0.926	2115.69	.039%	99.313%
75.0	8.789	0.931	2116.621	.039%	99.357%

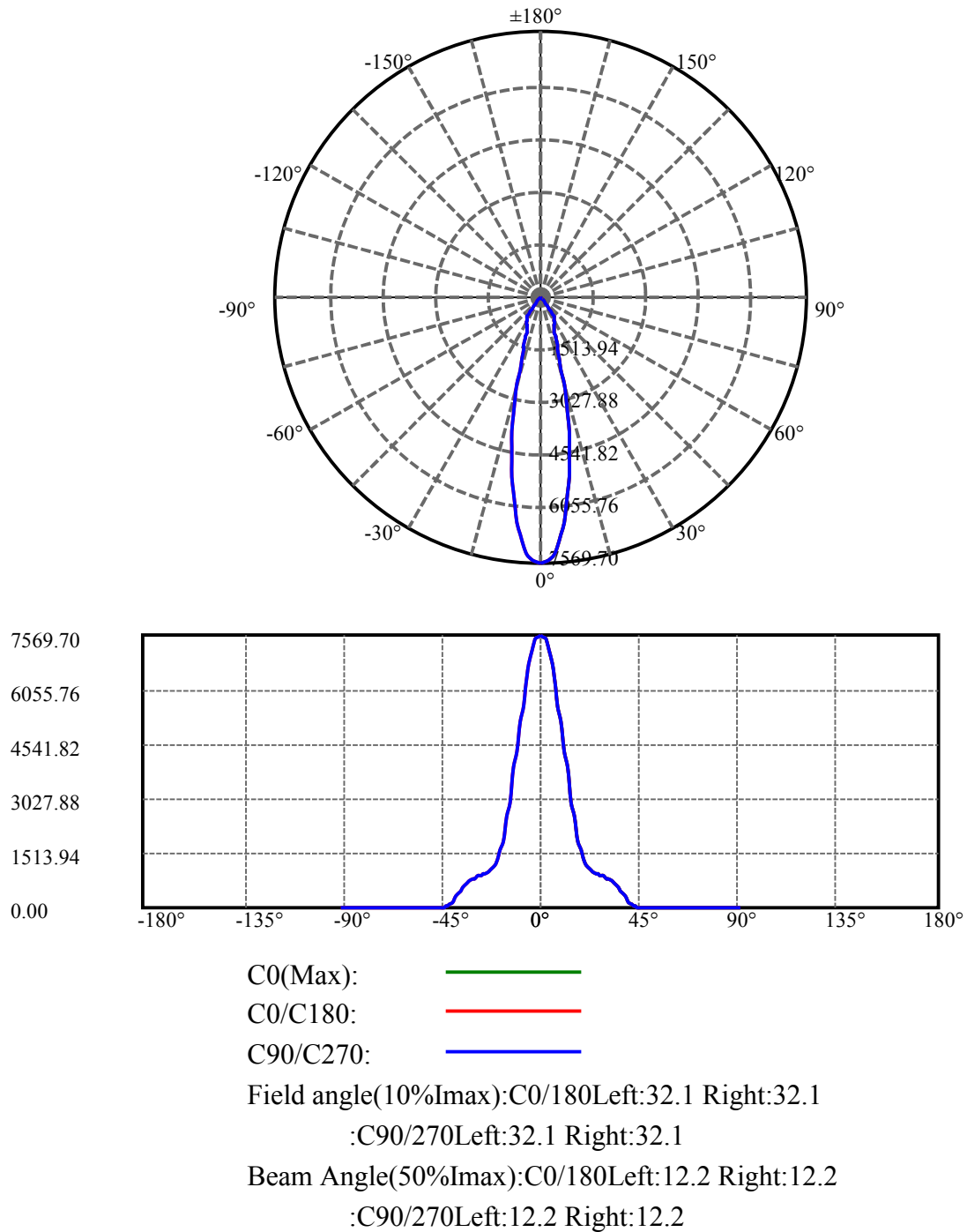
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.768	0.933	2117.554	.040%	99.401%
77.0	8.754	0.935	2118.489	.040%	99.445%
78.0	8.740	0.937	2119.427	.040%	99.489%
79.0	8.733	0.940	2120.367	.040%	99.533%
80.0	8.733	0.943	2121.31	.040%	99.577%
81.0	8.712	0.944	2122.253	.040%	99.621%
82.0	8.705	0.945	2123.199	.040%	99.666%
83.0	8.719	0.949	2124.148	.040%	99.710%
84.0	8.698	0.949	2125.096	.040%	99.755%
85.0	8.698	0.950	2126.046	.040%	99.799%
86.0	8.684	0.950	2126.996	.040%	99.844%
87.0	8.655	0.948	2127.944	.040%	99.889%
88.0	8.670	0.950	2128.894	.040%	99.933%
89.0	8.663	0.950	2129.844	.040%	99.978%
90.0	8.663	0.475	2130.319	.020%	100.000%

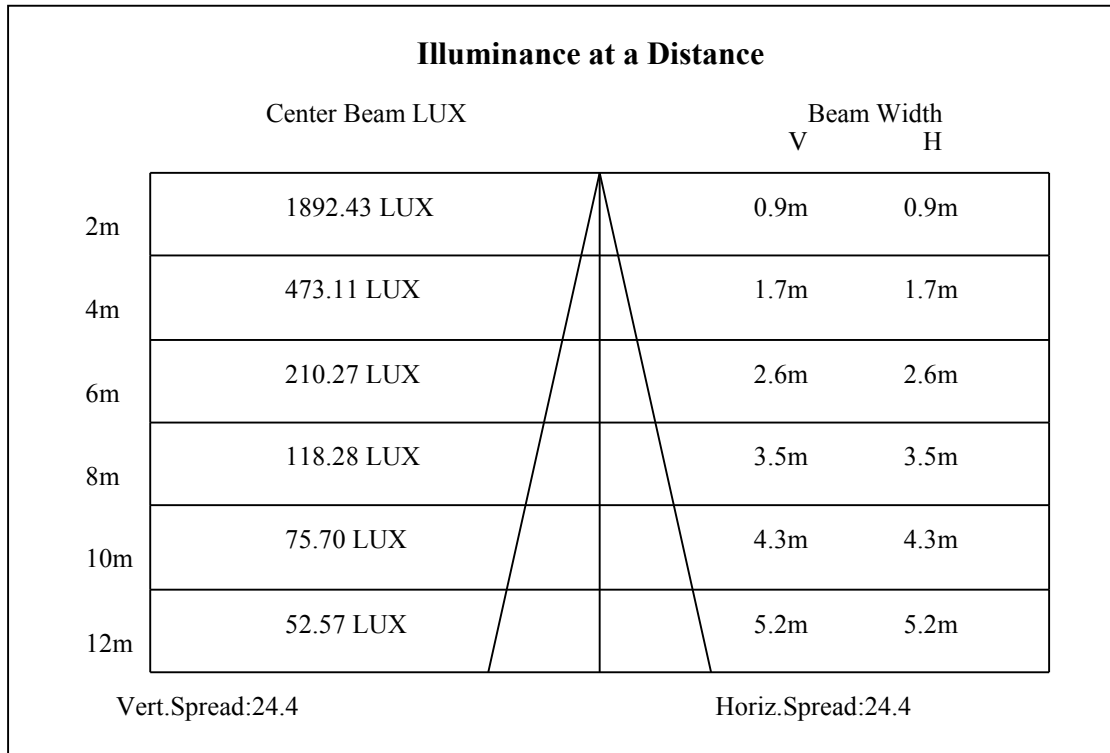
ZONAL LUMEN SUMMARY

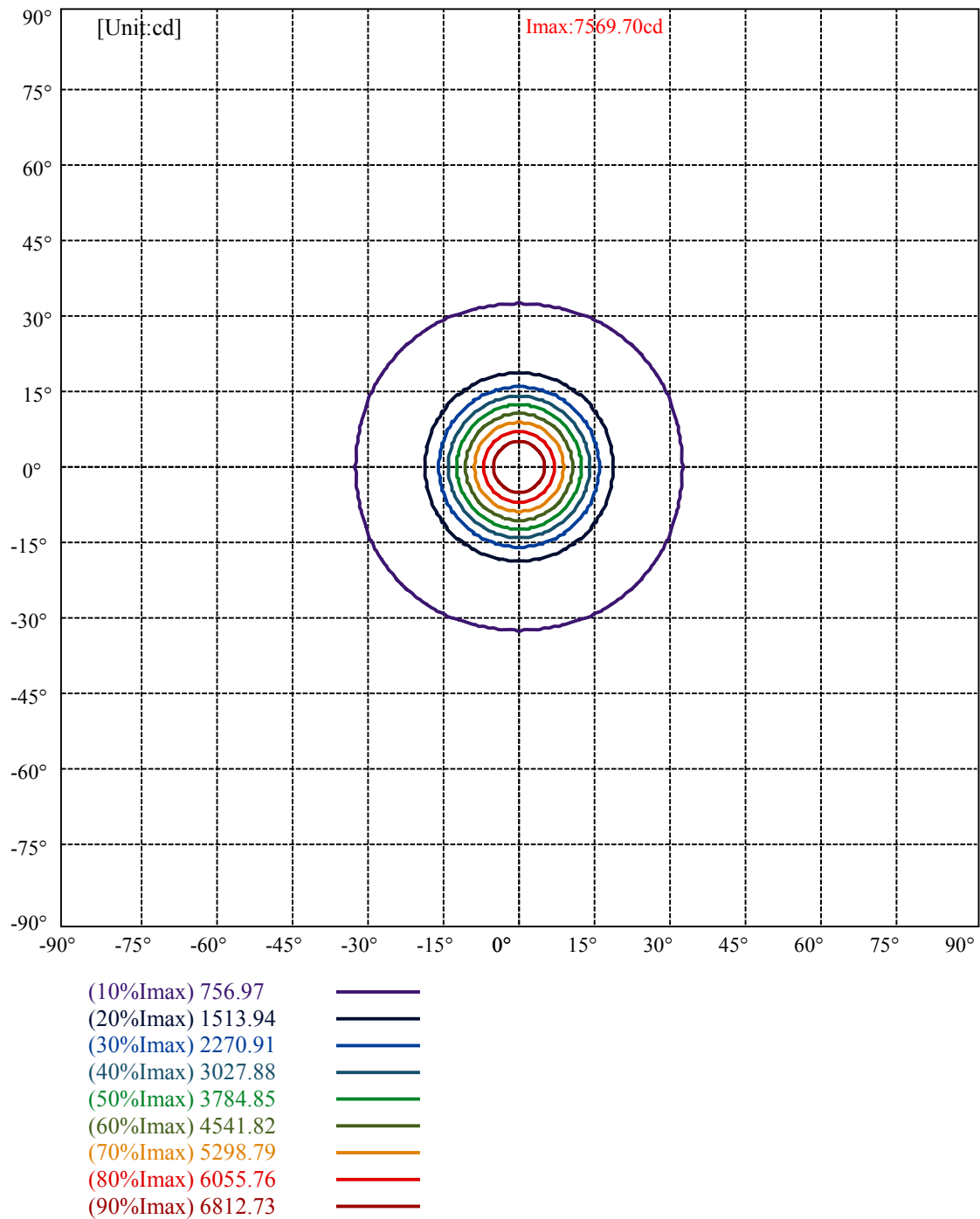
Zone	Lumens	%Lamp	%Fixt
0-30	1760.42	74.59%	82.64%
0-40	2074.85	87.92%	97.40%
0-60	2103.00	89.11%	98.72%
0-90	2129.84	90.25%	99.98%
0-120	2129.84	90.25%	99.98%
0-180	2130.32	90.27%	100.00%
60-90	27.73	1.17%	1.30%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.75	1704.26	72.21%	80.00%

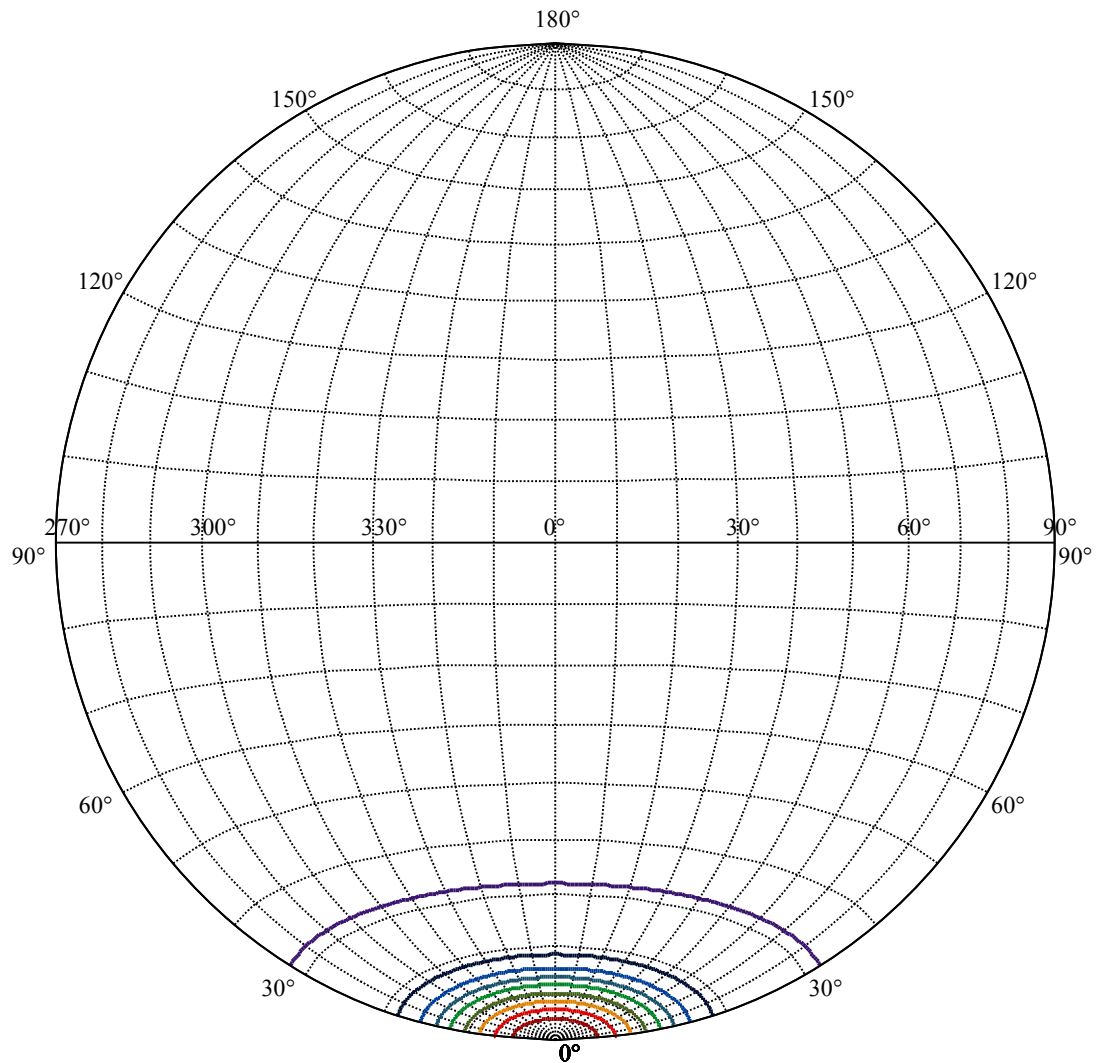
ZONAL LUMEN SUMMARY

0-10	626.41
10-20	686.77
20-30	447.24
30-40	314.42
40-50	19.40
50-60	8.75
60-70	9.00
70-80	9.31
80-90	8.53
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









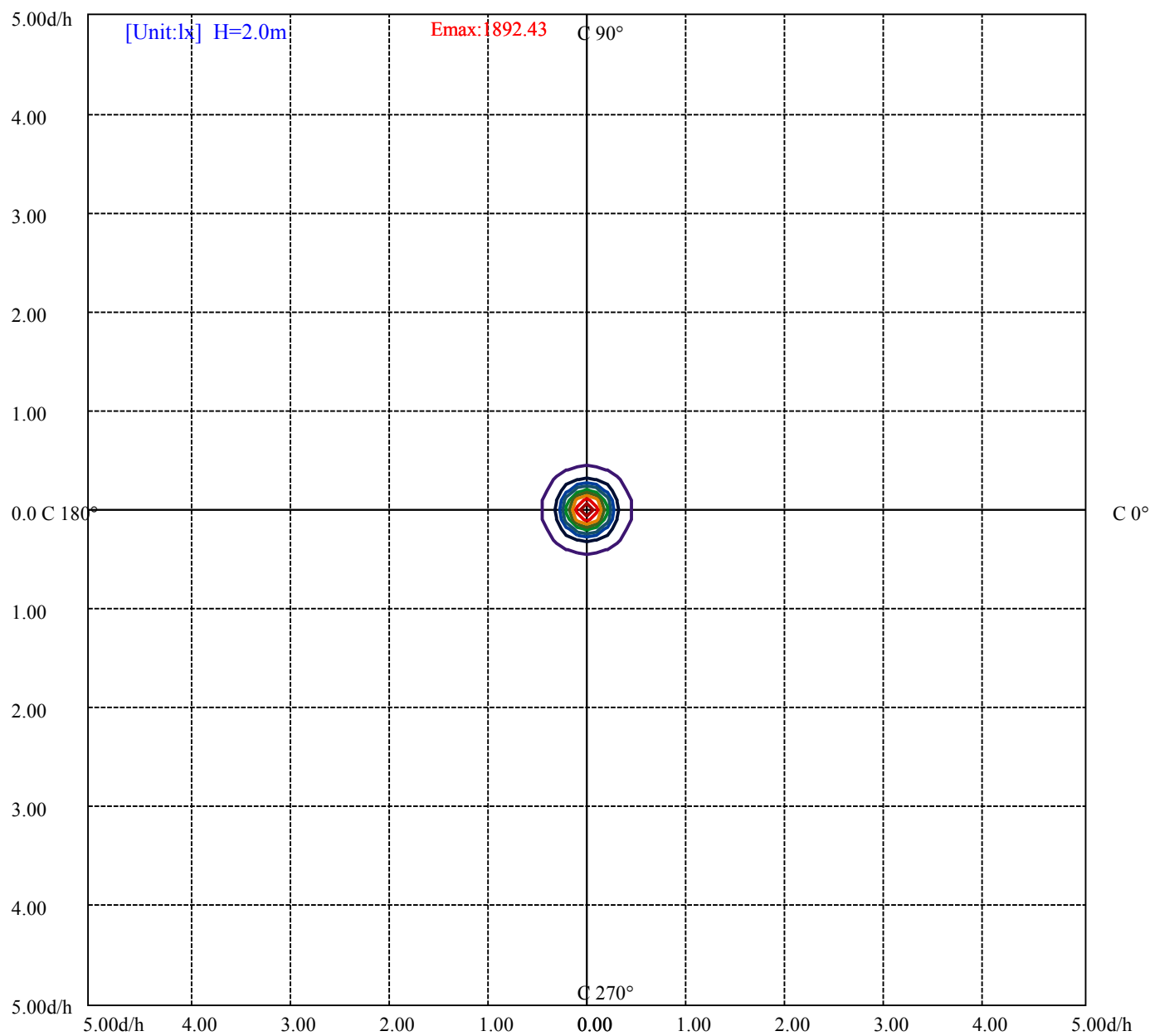
House

[Unit:cd]

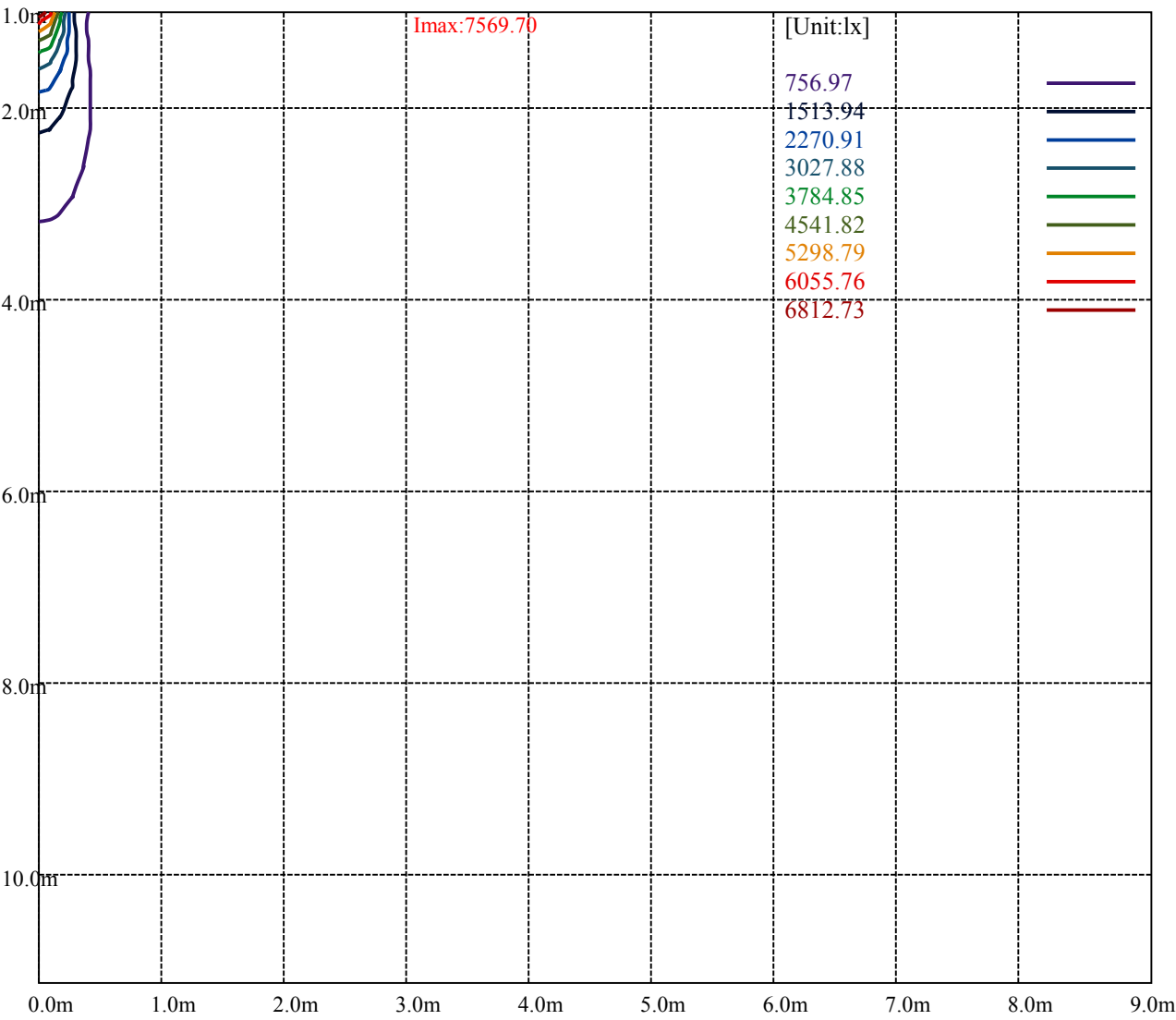
Road

Imax:7569.70

(10%Imax)	756.97	—
(20%Imax)	1513.94	—
(30%Imax)	2270.91	—
(40%Imax)	3027.88	—
(50%Imax)	3784.85	—
(60%Imax)	4541.82	—
(70%Imax)	5298.79	—
(80%Imax)	6055.76	—
(90%Imax)	6812.73	—



(10%E _{max}) 189.2425	—
(20%E _{max}) 378.485	—
(30%E _{max}) 567.7275	—
(40%E _{max}) 756.97	—
(50%E _{max}) 946.2125	—
(60%E _{max}) 1135.455	—
(70%E _{max}) 1324.698	—
(80%E _{max}) 1513.94	—
(90%E _{max}) 1703.182	—



Luminance Table

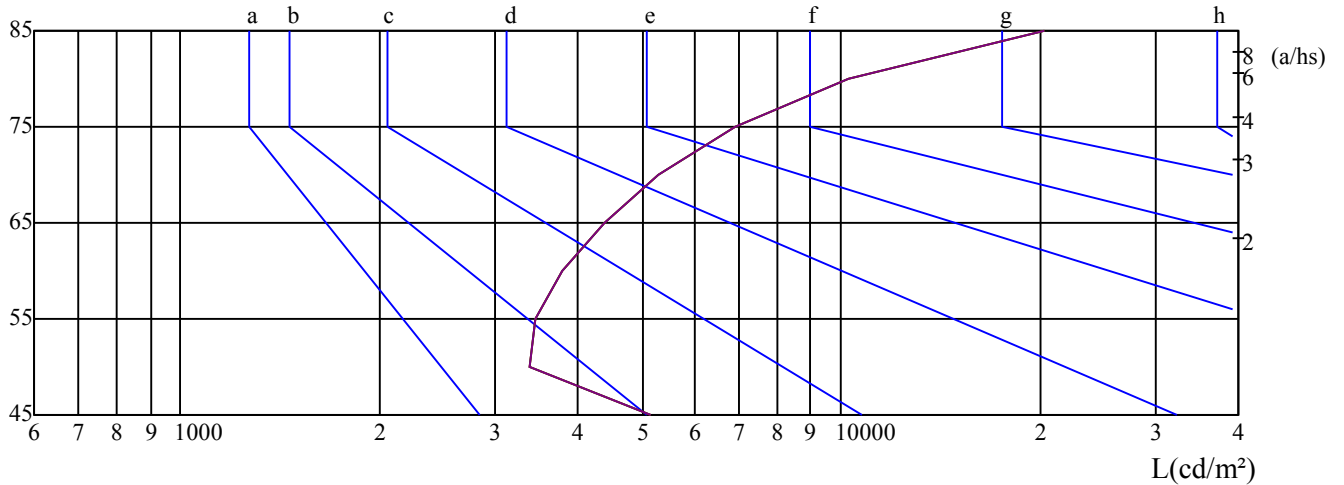
γ	45	50	55	60	65	70	75	80	85
C0	5136	3373	3450	3785	4373	5303	6930	10263	20366
C45	5136	3373	3450	3785	4373	5303	6930	10263	20366
C90	5136	3373	3450	3785	4373	5303	6930	10263	20366

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4373	4373	4373	6930	6930	6930	20366	20366	20366

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

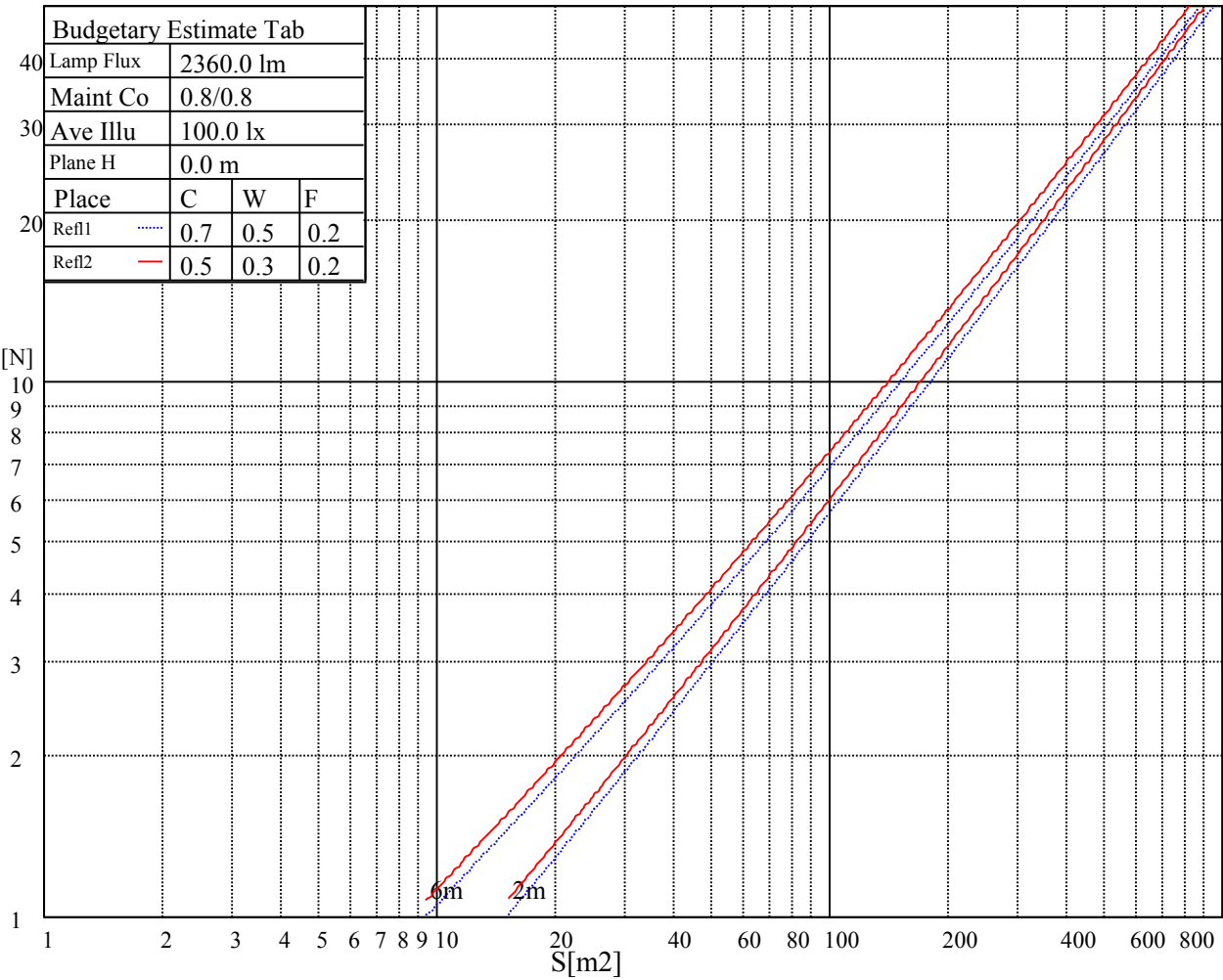
 $\gamma(^{\circ})$ 

C0 ———

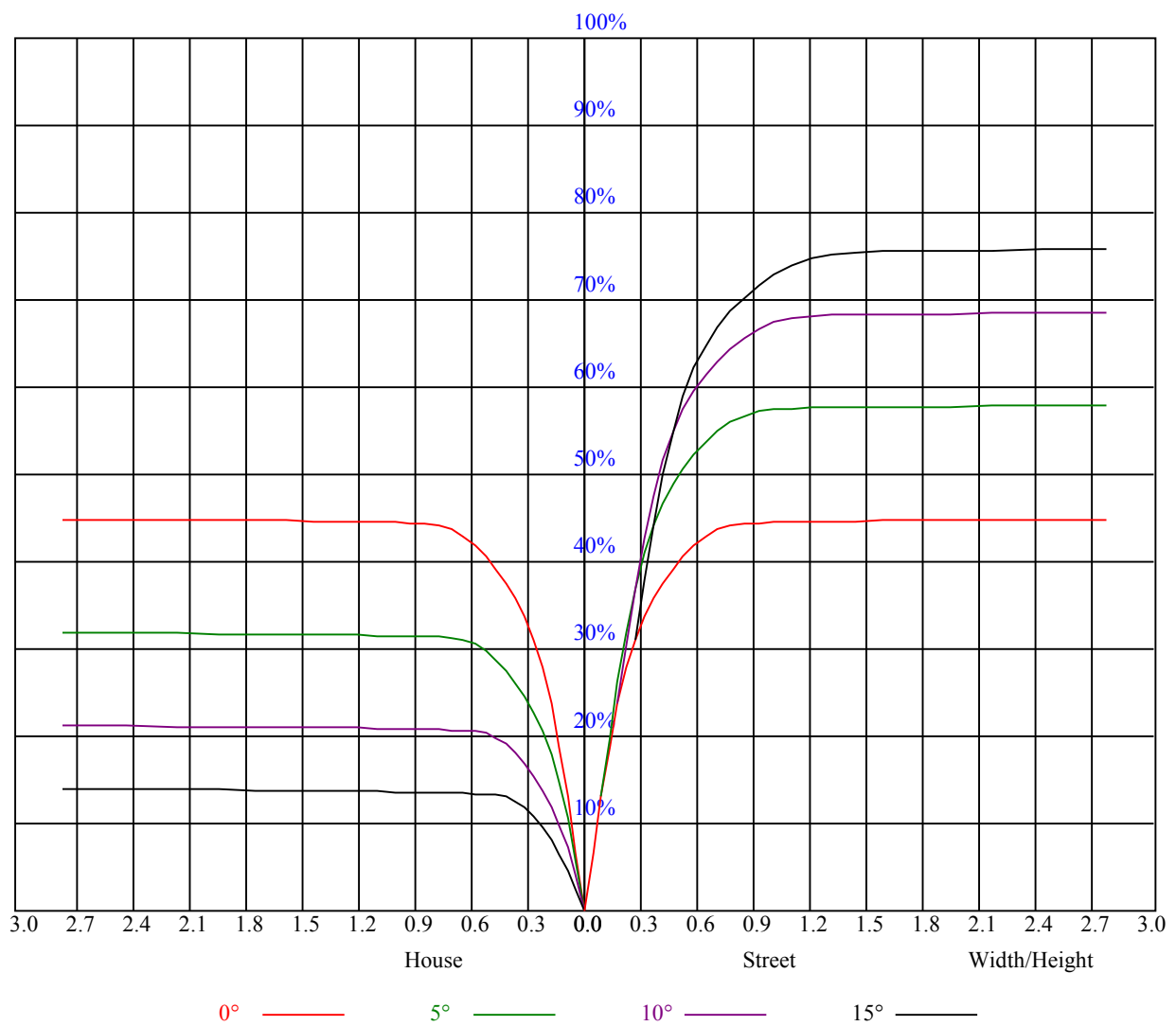
C45 ———

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	2.34	3.26	2.71	3.57	3.88	2.40	3.31	2.76	3.62	3.94
	3H	5.61	6.42	6.00	6.75	7.12	5.66	6.47	6.05	6.80	7.17
	4H	7.38	8.13	7.79	8.48	8.87	7.43	8.17	7.84	8.53	8.92
	6H	9.38	10.06	9.80	10.44	10.83	9.42	10.10	9.84	10.48	10.88
	8H	10.49	11.12	10.92	11.52	11.93	10.53	11.16	10.96	11.56	11.97
	12H	12.27	12.88	12.71	13.26	13.70	12.31	12.92	12.75	13.30	13.74
4H	2H	3.28	4.02	3.69	4.38	4.77	3.32	4.06	3.72	4.41	4.81
	3H	6.78	7.39	7.20	7.80	8.21	6.82	7.43	7.24	7.84	8.25
	4H	8.71	9.26	9.15	9.68	10.13	8.74	9.29	9.18	9.72	10.17
	6H	10.87	11.33	11.34	11.78	12.26	10.90	11.37	11.38	11.82	12.30
	8H	12.07	12.50	12.55	12.95	13.43	12.10	12.54	12.58	12.99	13.47
	12H	13.75	14.12	14.24	14.61	15.09	13.78	14.16	14.28	14.65	15.13
8H	4H	9.45	9.88	9.93	10.34	10.81	9.48	9.91	9.95	10.36	10.84
	6H	11.88	12.22	12.39	12.72	13.21	11.90	12.25	12.42	12.75	13.24
	8H	13.27	13.57	13.80	14.09	14.59	13.29	13.60	13.83	14.12	14.62
	12H	15.08	15.34	15.60	15.84	16.42	15.11	15.37	15.63	15.87	16.45
12H	4H	9.66	10.03	10.16	10.52	11.00	9.69	10.06	10.18	10.55	11.03
	6H	12.40	12.50	12.74	12.97	13.52	12.42	12.53	12.76	13.00	13.55
	8H	13.72	13.98	14.25	14.48	15.06	13.75	14.01	14.27	14.50	15.09
Variation with the observer position at spacings:											
S = 1.0H		5.5/-8.5					5.5/-8.5				
S = 1.5H		7.8/-6.4					7.8/-6.4				
S = 2.0H		9.3/-4.8					9.3/-4.8				
Standard tables:		BK2					BK2				
Uncorrected UGR		1.7					1.7				



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	0.97	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.87	0.88	0.86	0.85	0.86	0.84	0.83	0.82
3	0.90	0.86	0.83	0.89	0.86	0.83	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.80	0.77	0.75	0.74
5	0.82	0.78	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.78	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
7	0.75	0.71	0.68	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
8	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63
9	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.65	0.62	0.59	0.58



NATA 3-1567-M

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	7560.56	7594.88	7602.19	7561.69	7465.50	7270.31	7027.88	6689.81	6245.44
45.0	7554.38	7590.38	7583.06	7516.13	7388.44	7133.06	6820.31	6438.38	5990.06
90.0	7579.13	7557.19	7462.13	7281.00	7022.25	6651.00	6270.19	5823.00	5385.94
135.0	7584.75	7549.88	7416.56	7248.94	7004.25	6581.81	6177.94	5766.75	5319.00
180.0	7560.56	7453.69	7261.88	7046.44	6735.38	6312.94	5905.69	5457.94	5059.69
225.0	7554.38	7467.19	7318.13	7115.06	6850.13	6464.25	6089.63	5654.25	5221.13
270.0	7579.13	7560.00	7494.19	7387.31	7207.88	6883.88	6557.06	6197.63	5774.63
315.0	7584.75	7588.69	7562.25	7459.31	7310.81	7043.63	6730.88	6333.75	5908.50
360.0	7560.56	7594.88	7602.19	7561.69	7465.50	7270.31	7027.88	6689.81	6245.44
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5801.06	5411.81	4974.19	4570.88	4045.50	3611.25	3169.69	2678.06	2235.94
45.0	5555.81	5168.25	4709.25	4278.94	3791.81	3350.25	2854.13	2390.63	2040.75
90.0	4982.63	4504.50	4020.19	3577.50	3130.31	2593.69	2208.38	1889.44	1613.81
135.0	4862.25	4431.94	3940.88	3495.94	2996.44	2519.44	2147.06	1812.94	1563.75
180.0	4592.25	4117.50	3633.19	3200.06	2778.19	2293.88	1967.06	1707.75	1508.06
225.0	4838.63	4394.81	3935.81	3514.50	3091.50	2581.31	2211.75	1897.31	1626.19
270.0	5357.81	4993.88	4568.63	4177.69	3716.44	3237.75	2814.75	2369.81	2002.50
315.0	5530.50	5101.88	4664.81	4252.50	3828.94	3238.31	2861.44	2444.63	2053.88
360.0	5801.06	5411.81	4974.19	4570.88	4045.50	3611.25	3169.69	2678.06	2235.94
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1905.19	1649.25	1420.88	1294.88	1191.94	1123.88	1064.25	1021.50	980.44
45.0	1730.81	1522.13	1348.31	1217.81	1127.25	1058.63	1005.75	970.88	945.00
90.0	1408.50	1278.56	1117.97	1095.81	1046.93	1004.68	972.34	939.26	909.62
135.0	1394.44	1269.56	1154.25	1084.50	1032.19	987.19	951.75	926.44	902.25
180.0	1323.00	1213.31	1116.68	1049.57	1004.57	967.50	933.19	904.22	881.83
225.0	1431.56	1301.06	1121.91	1105.82	1050.92	1002.60	967.50	935.10	906.58
270.0	1746.00	1541.25	1343.81	1226.81	1135.13	1056.94	1000.69	963.56	929.81
315.0	1729.69	1515.94	1343.81	1221.19	1119.43	1075.50	1021.56	979.71	948.04
360.0	1905.19	1649.25	1420.88	1294.88	1191.94	1123.88	1064.25	1021.50	980.44
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	947.81	914.63	891.56	870.19	839.81	813.38	785.25	757.69	690.75
45.0	911.81	891.00	873.56	848.25	822.94	801.00	767.81	715.50	655.88
90.0	885.15	856.63	824.96	795.49	766.91	731.76	681.19	607.84	534.21
135.0	879.75	857.81	830.25	803.81	771.75	738.56	678.94	595.13	505.13
180.0	857.59	834.24	804.66	772.31	744.58	699.92	624.94	549.51	469.35
225.0	882.45	854.55	824.63	796.61	768.26	735.36	679.05	605.36	501.19
270.0	902.81	882.56	861.19	842.06	817.31	789.75	764.44	719.44	646.31
315.0	915.58	886.56	863.61	837.28	811.86	778.28	751.84	719.38	655.71
360.0	947.81	914.63	891.56	870.19	839.81	813.38	785.25	757.69	690.75
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	620.44	542.81	445.50	343.13	285.19	164.42	91.80	42.36	24.75
45.0	557.44	470.81	383.06	285.19	191.03	120.26	48.77	26.83	23.91
90.0	428.18	343.69	263.81	164.81	96.19	43.31	25.43	21.83	19.01
135.0	420.75	336.94	294.19	151.03	89.72	41.46	24.86	21.54	18.84
180.0	361.13	275.68	198.17	110.25	55.41	28.74	22.56	19.24	16.76
225.0	413.89	327.04	224.94	148.28	85.28	36.34	25.20	20.93	17.89
270.0	554.63	465.19	365.63	286.88	181.74	115.09	49.22	27.11	23.18
315.0	559.63	474.24	387.68	279.56	201.49	130.61	64.24	28.46	23.06
360.0	620.44	542.81	445.50	343.13	285.19	164.42	91.80	42.36	24.75

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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	21.71	18.79	16.14	14.23	12.71	11.48	10.86	10.58	10.24		
45.0	19.80	17.16	15.02	13.11	11.76	10.97	10.63	10.46	10.18		
90.0	16.48	14.46	12.71	11.36	10.58	10.29	10.13	9.96	9.84		
135.0	15.69	13.67	12.26	11.08	10.52	10.29	10.13	10.01	9.84		
180.0	14.46	12.88	11.59	10.80	10.52	10.29	10.07	9.96	9.84		
225.0	15.58	13.73	11.87	11.08	10.58	10.29	10.13	10.01	9.84		
270.0	19.01	16.65	14.57	12.71	11.31	10.63	10.35	10.18	10.01		
315.0	19.63	17.04	14.68	12.88	11.64	10.74	10.46	10.18	10.01		
360.0	21.71	18.79	16.14	14.23	12.71	11.48	10.86	10.58	10.24		
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	10.07	9.96	9.84	9.68	9.56	9.45	9.39	9.34	9.28		
45.0	10.01	9.90	9.73	9.56	9.51	9.45	9.34	9.28	9.23		
90.0	9.68	9.56	9.51	9.39	9.34	9.28	9.23	9.17	9.11		
135.0	9.68	9.56	9.51	9.39	9.28	9.28	9.23	9.17	9.11		
180.0	9.68	9.56	9.51	9.39	9.39	9.28	9.28	9.17	9.17		
225.0	9.73	9.56	9.51	9.45	9.34	9.23	9.17	9.17	9.11		
270.0	9.84	9.73	9.62	9.51	9.39	9.34	9.28	9.17	9.17		
315.0	9.84	9.73	9.68	9.51	9.39	9.34	9.28	9.23	9.23		
360.0	10.07	9.96	9.84	9.68	9.56	9.45	9.39	9.34	9.28		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	9.23	9.17	9.11	9.11	9.06	9.00	9.00	9.00	8.94		
45.0	9.11	9.11	9.11	9.06	9.00	8.94	8.94	8.94	8.89		
90.0	9.06	9.06	9.00	8.94	8.94	8.89	8.83	8.83	8.78		
135.0	9.11	9.00	9.06	8.94	8.94	8.94	8.89	8.83	8.83		
180.0	9.11	9.06	9.06	9.00	8.94	8.94	8.94	8.89	8.89		
225.0	9.06	9.06	9.00	8.94	8.94	8.89	8.89	8.83	8.83		
270.0	9.11	9.06	9.06	9.00	8.94	8.94	8.94	8.89	8.83		
315.0	9.11	9.06	9.06	9.06	9.00	8.94	8.89	8.89	8.89		
360.0	9.23	9.17	9.11	9.11	9.06	9.00	9.00	9.00	8.94		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	8.89	8.89	8.83	8.83	8.83	8.78	8.83	8.78	8.78		
45.0	8.83	8.83	8.78	8.78	8.78	8.78	8.72	8.72	8.72		
90.0	8.83	8.78	8.78	8.72	8.72	8.72	8.72	8.66	8.72		
135.0	8.83	8.78	8.78	8.78	8.78	8.78	8.72	8.78	8.72		
180.0	8.83	8.83	8.83	8.83	8.78	8.78	8.78	8.78	8.78		
225.0	8.83	8.78	8.78	8.78	8.72	8.72	8.66	8.72	8.72		
270.0	8.83	8.83	8.78	8.78	8.78	8.72	8.78	8.72	8.72		
315.0	8.83	8.83	8.78	8.83	8.78	8.78	8.72	8.72	8.72		
360.0	8.89	8.89	8.83	8.83	8.83	8.78	8.83	8.78	8.78		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	8.78	8.72	8.78	8.78	8.72	8.78	8.72	8.72	8.72		
45.0	8.72	8.72	8.66	8.66	8.66	8.61	8.61	8.66	8.61		
90.0	8.66	8.66	8.66	8.66	8.66	8.66	8.61	8.61	8.66		
135.0	8.72	8.72	8.78	8.78	8.78	8.72	8.66	8.66	8.66		
180.0	8.78	8.78	8.78	8.72	8.72	8.72	8.66	8.72	8.72		
225.0	8.66	8.66	8.66	8.66	8.66	8.66	8.66	8.66	8.61		
270.0	8.66	8.66	8.72	8.66	8.66	8.66	8.66	8.66	8.66		
315.0	8.72	8.72	8.72	8.66	8.72	8.66	8.66	8.66	8.66		
360.0	8.78	8.72	8.78	8.78	8.72	8.78	8.72	8.72	8.72		

Intensity data(cd)

Appendix Page: 19 Total:19

C/ $\gamma(^{\circ})$	90.0
0.0	8.66
45.0	8.66
90.0	8.61
135.0	8.66
180.0	8.72
225.0	8.66
270.0	8.66
315.0	8.66
360.0	8.66