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NATA

LumCAT: 1545-E	
Luminaire: 92.70.051.00	
Report No: NATA0100	Voltage(V): 35.5000
Test No: GC2019010301	Current(A): 0.2600
LampCAT: BRIDGELUX V8E G7	Power (W): 9.2300
Lamp flux(lm): 1392.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 21	Width(mm): 21
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1187.66
Efficiency(%): 85.32%
Lumens(lm)/Power(W): 128.71
Central intensity(cd): 1655.578
Maximum intensity(cd): 1655.578
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=40.5
[C90/270]Total=40.5
Field angle(10%Imax): [C0/180]Total=90.3
[C90/270]Total=90.3
Maximum s/h(1/2): C0_180=0.63 C90_270=0.63
Maximum s/h(1/4): C0_180=0.72 C90_270=0.72
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.35%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.719%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1655.578	0.396	0.396	.028%	.033%
1.0	1653.469	3.164	3.561	.227%	.300%
2.0	1646.648	6.302	9.862	.453%	.830%
3.0	1635.188	9.385	19.247	.674%	1.621%
4.0	1617.258	12.371	31.618	.889%	2.662%
5.0	1594.195	15.237	46.855	1.095%	3.945%
6.0	1563.188	17.918	64.773	1.287%	5.454%
7.0	1528.031	20.421	85.194	1.467%	7.173%
8.0	1487.039	22.695	107.889	1.630%	9.084%
9.0	1442.602	24.747	132.637	1.778%	11.168%
10.0	1391.695	26.501	159.138	1.904%	13.399%
11.0	1339.031	28.018	187.156	2.013%	15.758%
12.0	1284.469	29.286	216.442	2.104%	18.224%
13.0	1215.773	29.991	246.433	2.155%	20.750%
14.0	1155.424	30.653	277.086	2.202%	23.330%
15.0	1100.890	31.246	308.332	2.245%	25.961%
16.0	1048.254	31.685	340.017	2.276%	28.629%
17.0	988.242	31.685	371.702	2.276%	31.297%
18.0	935.023	31.685	403.387	2.276%	33.965%
19.0	886.430	31.647	435.034	2.274%	36.630%
20.0	839.046	31.469	466.504	2.261%	39.279%
21.0	794.039	31.205	497.708	2.242%	41.907%
22.0	755.156	31.022	528.73	2.229%	44.519%
23.0	718.945	30.805	559.535	2.213%	47.113%
24.0	681.560	30.400	589.935	2.184%	49.672%
25.0	649.336	30.093	620.028	2.162%	52.206%
26.0	618.427	29.729	649.757	2.136%	54.709%
27.0	589.296	29.338	679.096	2.108%	57.180%
28.0	562.127	28.940	708.035	2.079%	59.616%
29.0	537.666	28.585	736.62	2.054%	62.023%
30.0	517.134	28.355	764.975	2.037%	64.411%
31.0	495.429	27.982	792.956	2.010%	66.767%
32.0	472.430	27.454	820.41	1.972%	69.078%
33.0	451.779	26.983	847.393	1.938%	71.350%
34.0	427.676	26.226	873.619	1.884%	73.558%
35.0	401.611	25.261	898.879	1.815%	75.685%
36.0	379.020	24.430	923.31	1.755%	77.742%
37.0	356.330	23.516	946.826	1.689%	79.722%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	331.566	22.385	969.211	1.608%	81.607%
39.0	307.118	21.195	990.406	1.523%	83.392%
40.0	286.411	20.189	1010.595	1.450%	85.092%
41.0	264.241	19.011	1029.605	1.366%	86.692%
42.0	237.326	17.414	1047.02	1.251%	88.159%
43.0	213.152	15.941	1062.961	1.145%	89.501%
44.0	190.526	14.514	1077.475	1.043%	90.723%
45.0	168.673	13.079	1090.554	.940%	91.824%
46.0	146.545	11.560	1102.114	.830%	92.797%
47.0	125.009	10.026	1112.14	.720%	93.642%
48.0	105.750	8.618	1120.758	.619%	94.367%
49.0	87.384	7.232	1127.99	.520%	94.976%
50.0	68.991	5.796	1133.786	.416%	95.464%
51.0	54.963	4.684	1138.47	.337%	95.859%
52.0	44.409	3.838	1142.307	.276%	96.182%
53.0	36.949	3.236	1145.543	.232%	96.454%
54.0	33.033	2.931	1148.474	.211%	96.701%
55.0	30.312	2.723	1151.197	.196%	96.930%
56.0	27.323	2.484	1153.681	.178%	97.139%
57.0	24.110	2.217	1155.898	.159%	97.326%
58.0	20.559	1.912	1157.81	.137%	97.487%
59.0	17.655	1.660	1159.47	.119%	97.627%
60.0	15.173	1.441	1160.911	.104%	97.748%
61.0	13.233	1.269	1162.18	.091%	97.855%
62.0	12.502	1.210	1163.39	.087%	97.957%
63.0	12.009	1.173	1164.564	.084%	98.056%
64.0	11.609	1.144	1165.708	.082%	98.152%
65.0	11.222	1.115	1166.823	.080%	98.246%
66.0	10.927	1.095	1167.918	.079%	98.338%
67.0	10.652	1.075	1168.993	.077%	98.429%
68.0	10.413	1.059	1170.052	.076%	98.518%
69.0	10.146	1.039	1171.091	.075%	98.605%
70.0	9.893	1.019	1172.11	.073%	98.691%
71.0	9.661	1.002	1173.112	.072%	98.775%
72.0	9.429	0.983	1174.095	.071%	98.858%
73.0	9.197	0.964	1175.06	.069%	98.939%
74.0	9.028	0.952	1176.011	.068%	99.020%
75.0	8.810	0.933	1176.944	.067%	99.098%

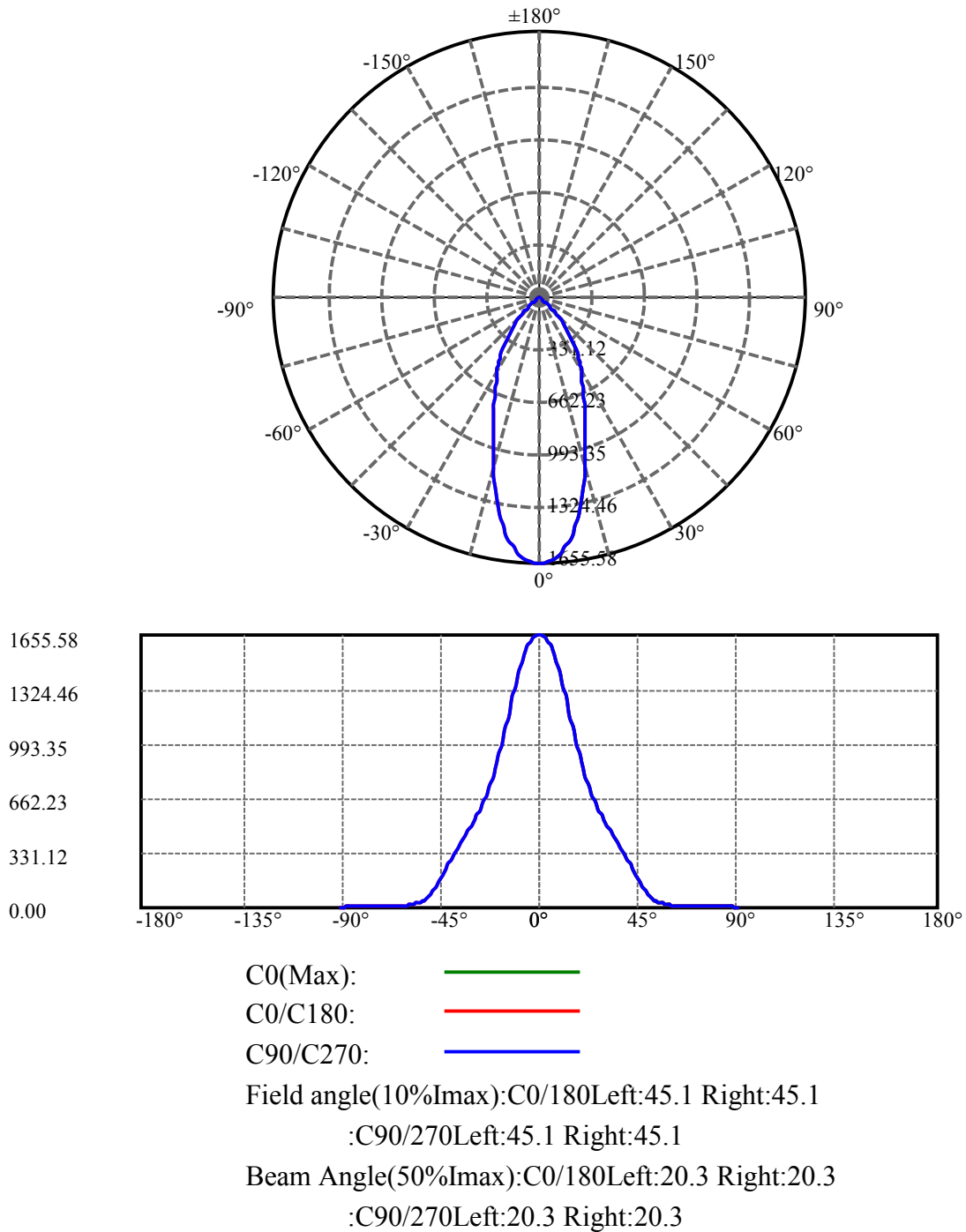
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.557	0.910	1177.855	.065%	99.175%
77.0	8.430	0.901	1178.756	.065%	99.251%
78.0	8.177	0.877	1179.633	.063%	99.325%
79.0	7.924	0.853	1180.486	.061%	99.396%
80.0	7.664	0.828	1181.314	.059%	99.466%
81.0	7.411	0.803	1182.116	.058%	99.534%
82.0	7.123	0.773	1182.89	.056%	99.599%
83.0	6.912	0.752	1183.642	.054%	99.662%
84.0	6.701	0.731	1184.373	.052%	99.724%
85.0	6.525	0.713	1185.086	.051%	99.784%
86.0	6.033	0.660	1185.746	.047%	99.839%
87.0	5.189	0.568	1186.314	.041%	99.887%
88.0	5.020	0.550	1186.864	.040%	99.933%
89.0	4.880	0.535	1187.399	.038%	99.978%
90.0	4.676	0.256	1187.655	.018%	100.000%

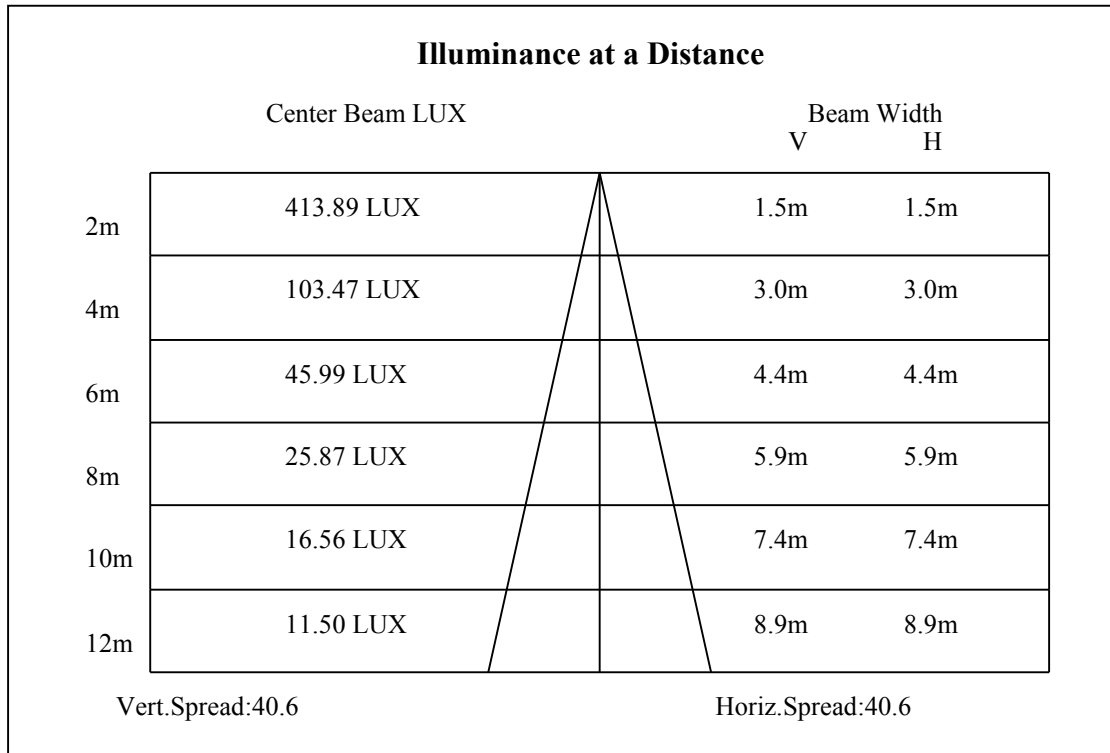
ZONAL LUMEN SUMMARY

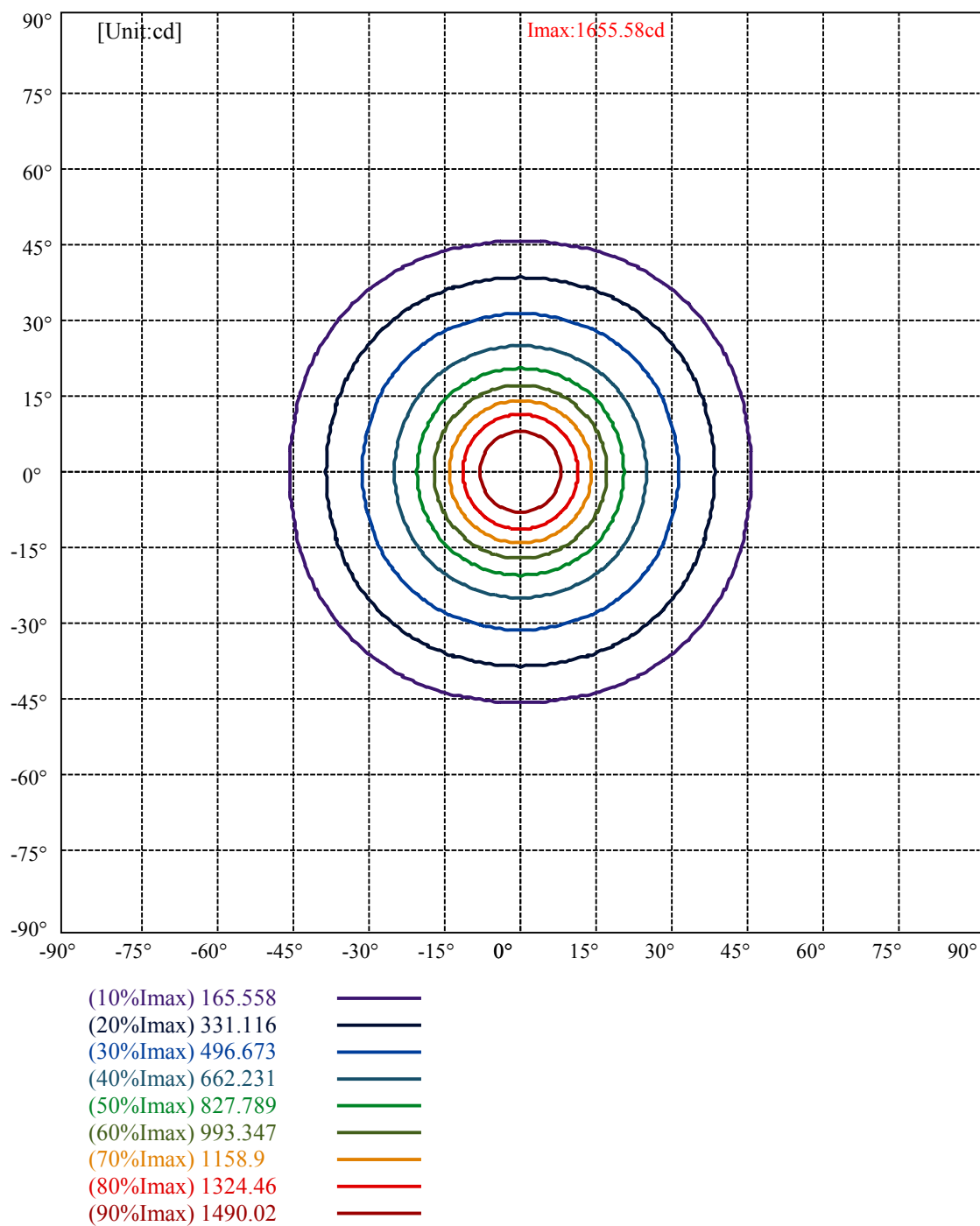
Zone	Lumens	%Lamp	%Fixt
0-30	764.97	54.96%	64.41%
0-40	1010.59	72.60%	85.09%
0-60	1160.91	83.40%	97.75%
0-90	1187.40	85.30%	99.98%
0-120	1187.40	85.30%	99.98%
0-180	1187.66	85.32%	100.00%
60-90	27.93	2.01%	2.35%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-37.15	950.12	68.26%	80.00%

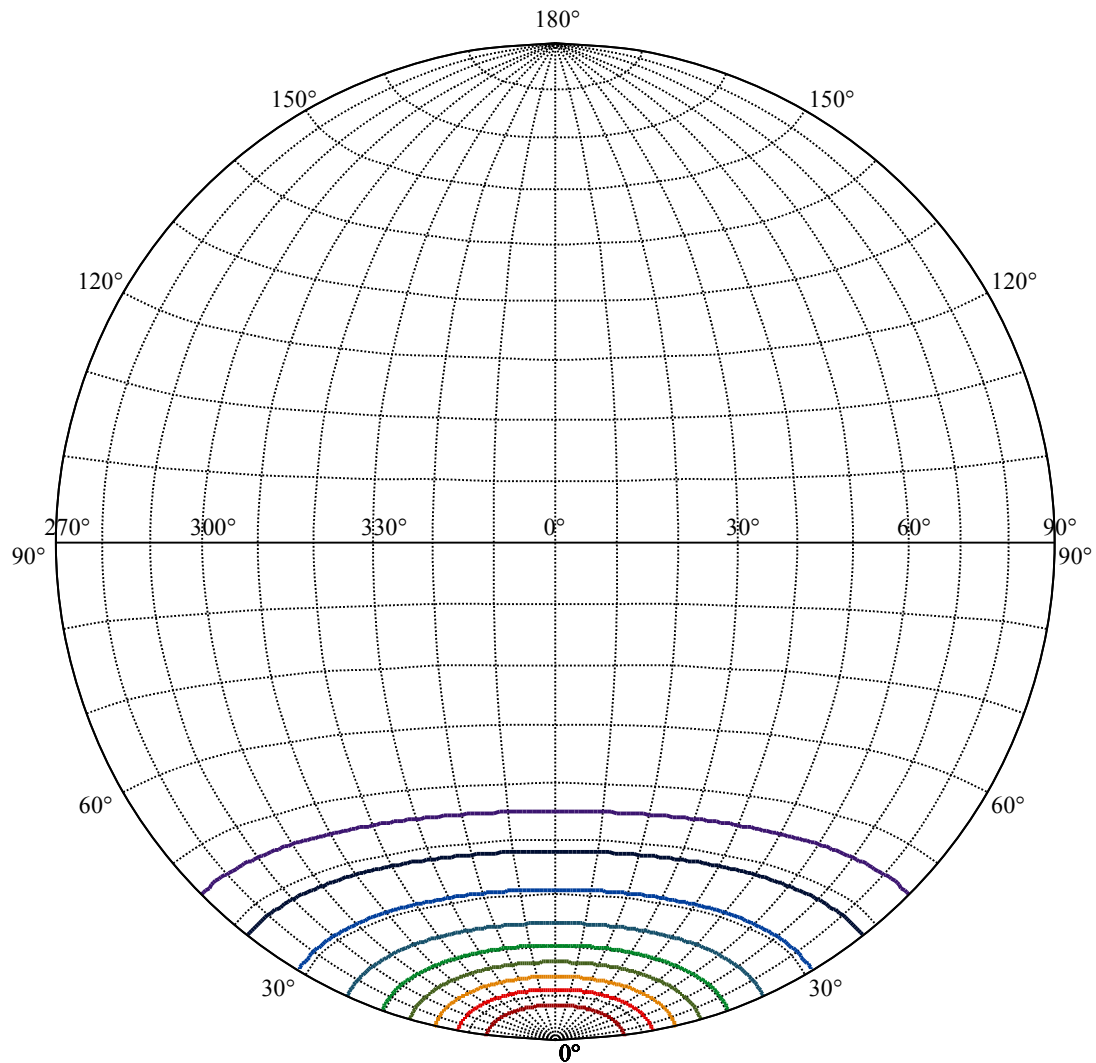
ZONAL LUMEN SUMMARY

0-10	159.14
10-20	307.37
20-30	298.47
30-40	245.62
40-50	123.19
50-60	27.13
60-70	11.20
70-80	9.20
80-90	6.09
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







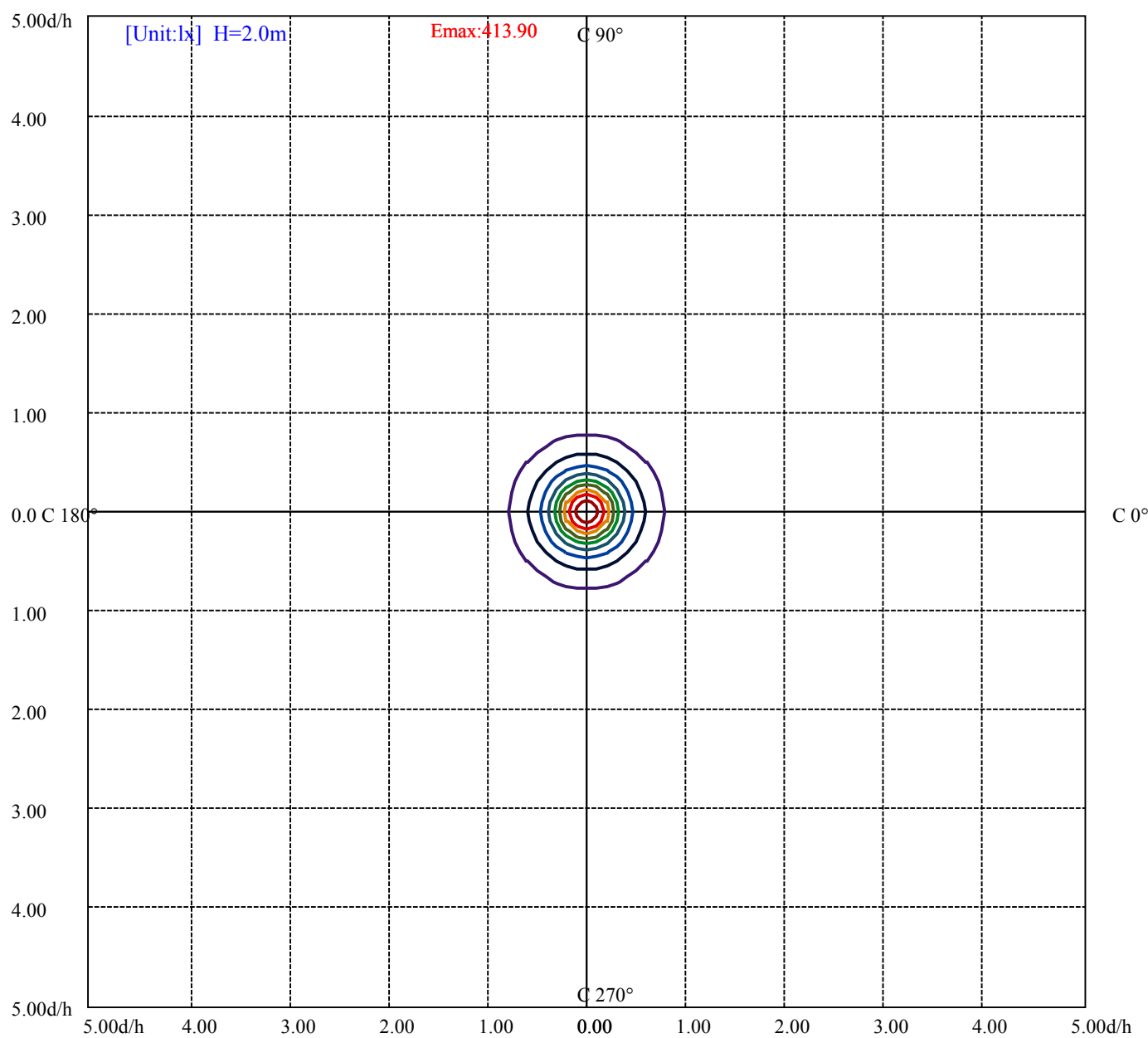


House

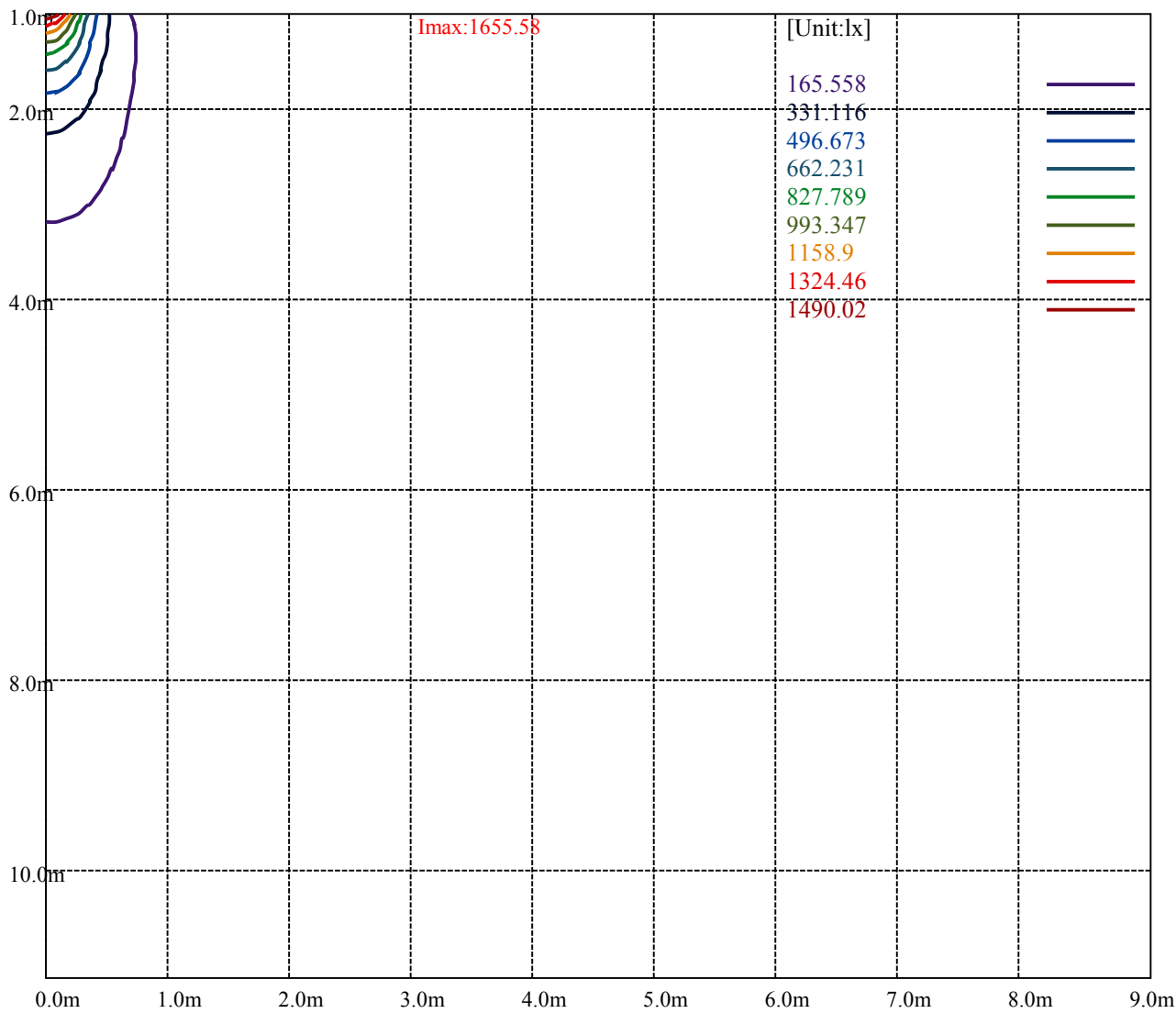
[Unit:cd]

Road

I_{max}:1655.58(10%I_{max}) 165.558(20%I_{max}) 331.116(30%I_{max}) 496.673(40%I_{max}) 662.231(50%I_{max}) 827.789(60%I_{max}) 993.347(70%I_{max}) 1158.9(80%I_{max}) 1324.46(90%I_{max}) 1490.02



(10%E _{max}) 41.3895	—
(20%E _{max}) 82.779	—
(30%E _{max}) 124.1683	—
(40%E _{max}) 165.5578	—
(50%E _{max}) 206.9473	—
(60%E _{max}) 248.3367	—
(70%E _{max}) 289.725	—
(80%E _{max}) 331.115	—
(90%E _{max}) 372.505	—



Luminance Table

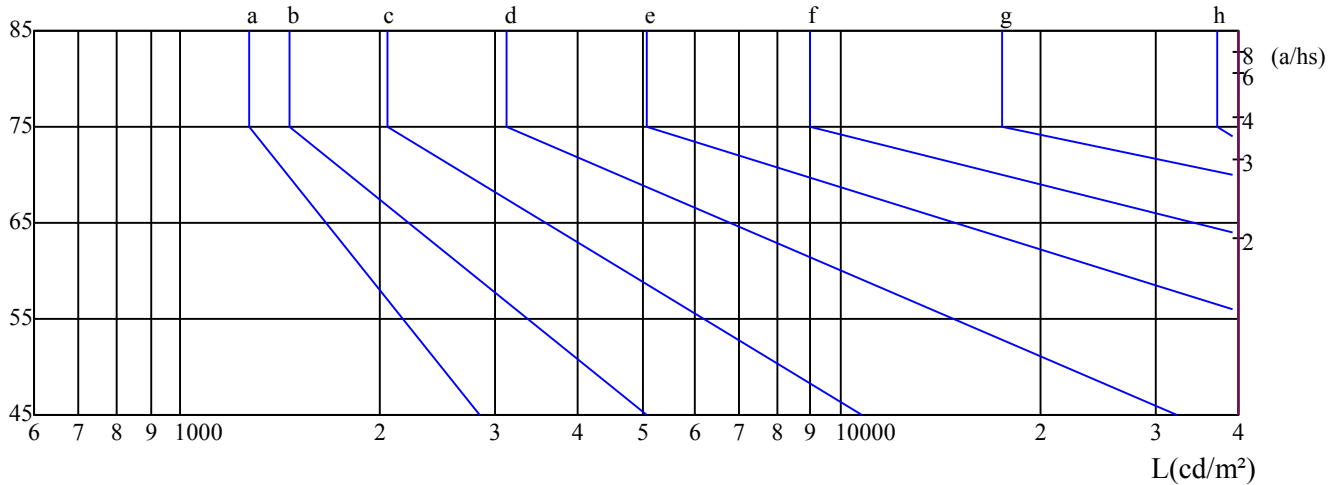
γ	45	50	55	60	65	70	75	80	85
C0	540905	243380	119834	68814	60211	65590	77188	100081	169764
C45	540905	243380	119834	68814	60211	65590	77188	100081	169764
C90	540905	243380	119834	68814	60211	65590	77188	100081	169764

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
60211	60211	60211	77188	77188	77188	169764	169764	169764

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

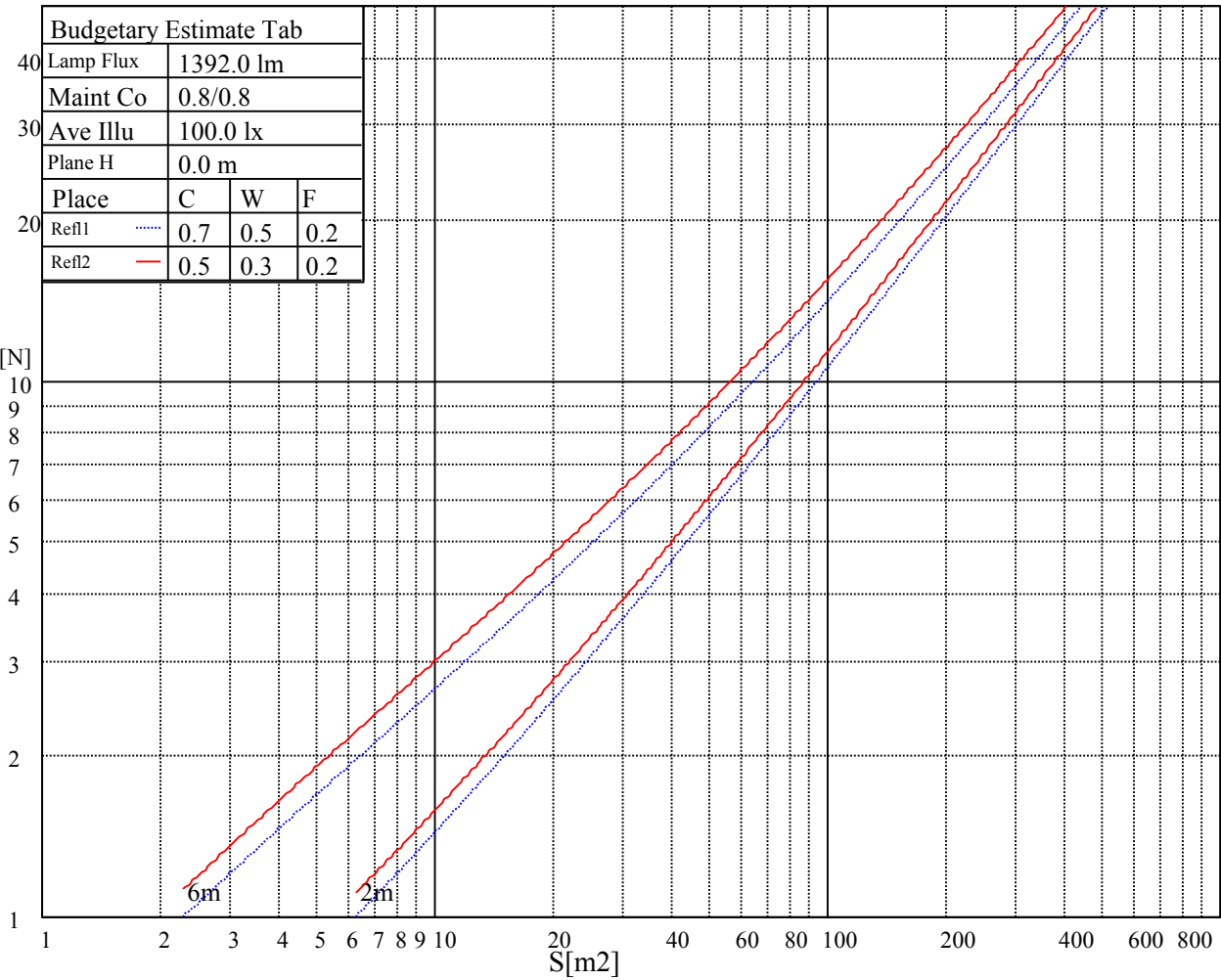
 $\gamma(^{\circ})$ 

C0 ———

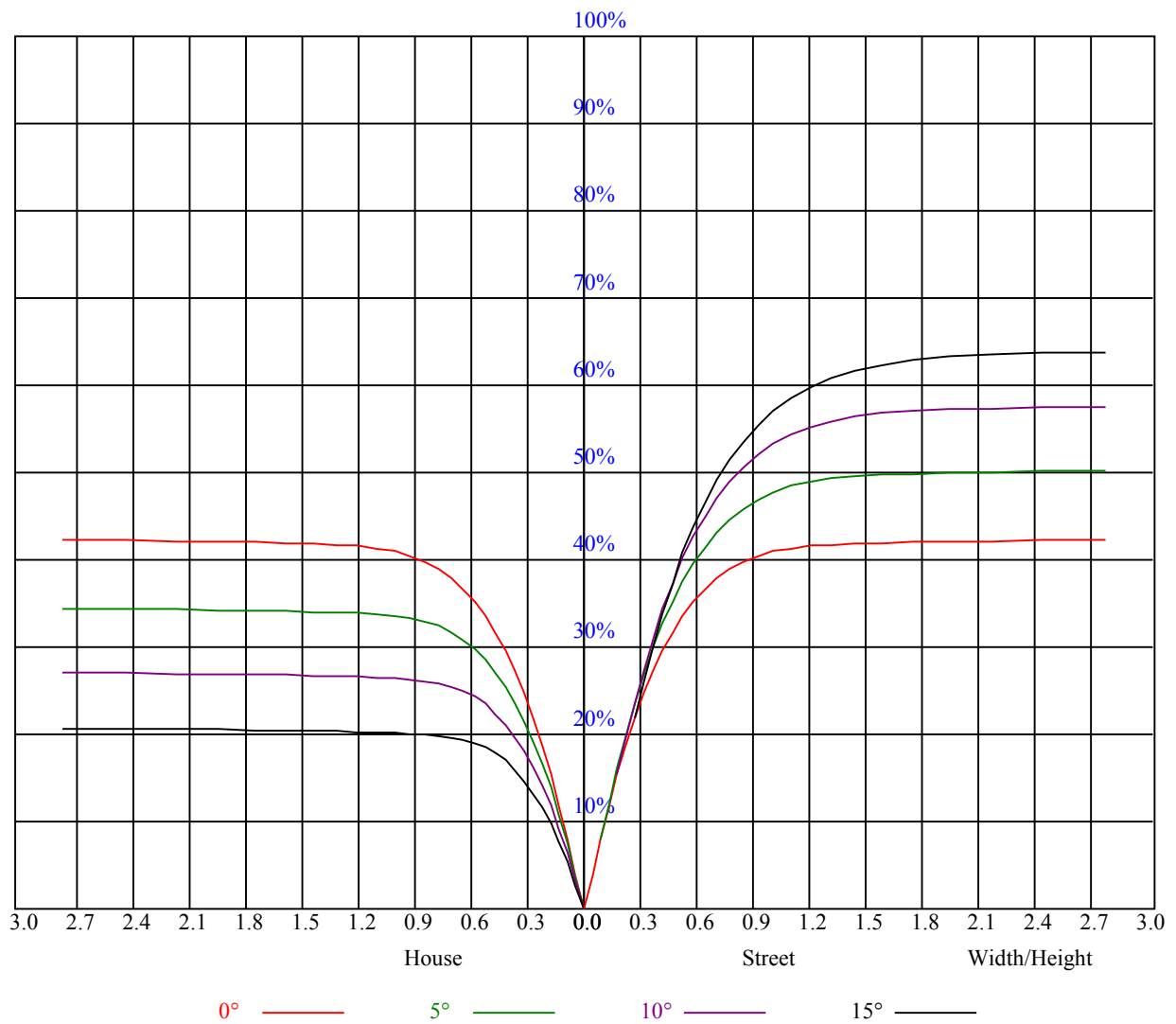
C45 ———

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	20.25	21.35	20.62	21.66	21.98	20.74	21.83	21.10	22.15	22.46
	3H	21.35	22.31	21.73	22.64	23.01	21.71	22.67	22.09	23.00	23.37
	4H	22.11	23.01	22.52	23.36	23.75	22.38	23.28	22.79	23.63	24.02
	6H	23.08	23.90	23.50	24.27	24.67	23.22	24.04	23.64	24.41	24.81
	8H	23.64	24.41	24.07	24.80	25.21	23.71	24.48	24.15	24.87	25.28
	12H	24.61	25.35	25.04	25.73	26.16	24.59	25.33	25.03	25.71	26.15
4H	2H	20.41	21.30	20.81	21.65	22.04	20.84	21.73	21.24	22.08	22.47
	3H	21.85	22.58	22.27	22.99	23.39	22.14	22.87	22.56	23.28	23.68
	4H	22.85	23.50	23.29	23.93	24.37	23.05	23.70	23.49	24.12	24.57
	6H	23.94	24.50	24.41	24.95	25.42	24.03	24.59	24.50	25.04	25.51
	8H	24.67	25.19	25.14	25.64	26.11	24.69	25.21	25.16	25.66	26.13
	12H	25.72	26.17	26.21	26.66	27.13	25.66	26.12	26.15	26.60	27.08
8H	4H	23.23	23.75	23.70	24.20	24.67	23.40	23.92	23.87	24.37	24.84
	6H	24.61	25.03	25.12	25.53	26.02	24.67	25.09	25.18	25.59	26.08
	8H	25.53	25.91	26.06	26.43	26.92	25.52	25.90	26.05	26.42	26.91
	12H	26.84	27.17	27.36	27.67	28.25	26.78	27.11	27.30	27.61	28.18
12H	4H	23.31	23.77	23.80	24.25	24.73	23.48	23.93	23.97	24.42	24.89
	6H	25.17	25.18	25.33	25.65	26.20	25.23	25.23	25.39	25.70	26.25
	8H	25.83	26.16	26.35	26.66	27.24	25.82	26.16	26.34	26.65	27.23
Variation with the observer position at spacings:											
S = 1.0H		2.4/-6.0					2.4/-6.0				
S = 1.5H		4.5/-5.7					4.5/-5.7				
S = 2.0H		6.2/-4.8					6.2/-4.8				
Standard tables:		BK2					BK2				
Uncorrected UGR		12.2					12.2				



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	1.02	1.02	1.02	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	0.94	0.92	0.90	0.92	0.90	0.88	0.89	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.74	0.73
3	0.81	0.76	0.73	0.80	0.75	0.72	0.77	0.74	0.71	0.75	0.72	0.70	0.73	0.71	0.69	0.67
4	0.75	0.70	0.66	0.74	0.70	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.69	0.66	0.64	0.62
5	0.70	0.65	0.61	0.69	0.65	0.61	0.68	0.64	0.60	0.66	0.63	0.60	0.65	0.62	0.59	0.58
6	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.59	0.56	0.63	0.59	0.56	0.61	0.58	0.55	0.54
7	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.51
8	0.58	0.53	0.49	0.58	0.53	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.49	0.47
9	0.55	0.50	0.46	0.55	0.50	0.46	0.54	0.49	0.46	0.53	0.49	0.46	0.52	0.49	0.46	0.45
10	0.52	0.47	0.44	0.52	0.47	0.44	0.51	0.47	0.44	0.50	0.46	0.43	0.50	0.46	0.43	0.42



NATA 1545-E

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	1645.31	1648.69	1652.06	1647.00	1639.13	1623.38	1599.75	1577.25	1535.63
45.0	1663.88	1661.06	1653.19	1643.06	1622.81	1595.81	1567.13	1531.69	1490.06
90.0	1657.13	1644.75	1632.94	1610.44	1576.69	1548.00	1504.69	1454.06	1417.50
135.0	1656.00	1645.31	1623.38	1601.44	1576.69	1542.94	1501.31	1461.94	1415.25
180.0	1645.31	1636.31	1617.19	1600.31	1576.69	1545.75	1506.94	1469.25	1418.63
225.0	1663.88	1663.31	1658.81	1648.13	1630.13	1606.50	1576.69	1533.94	1493.44
270.0	1657.13	1665.56	1670.06	1669.50	1663.88	1650.94	1626.75	1603.13	1570.50
315.0	1656.00	1662.75	1665.56	1661.63	1652.06	1640.25	1622.25	1593.00	1555.31
360.0	1645.31	1648.69	1652.06	1647.00	1639.13	1623.38	1599.75	1577.25	1535.63
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1497.94	1456.31	1395.56	1343.81	1288.69	1214.44	1154.25	1096.88	1025.44
45.0	1442.81	1391.63	1343.81	1285.88	1222.88	1166.63	1110.38	1044.00	990.56
90.0	1372.50	1304.44	1261.69	1211.06	1115.78	1091.59	1040.79	991.91	932.06
135.0	1366.88	1320.75	1270.13	1213.31	1155.38	1097.44	1045.13	993.94	949.50
180.0	1373.63	1320.19	1266.75	1215.00	1119.60	1093.95	1044.45	995.85	932.51
225.0	1451.81	1401.75	1345.50	1293.19	1233.00	1117.29	1109.93	1049.12	995.57
270.0	1522.13	1477.13	1427.63	1368.56	1305.56	1248.75	1181.25	1124.44	1057.50
315.0	1513.13	1461.38	1401.19	1344.94	1285.31	1213.31	1120.95	1089.90	1022.79
360.0	1497.94	1456.31	1395.56	1343.81	1288.69	1214.44	1154.25	1096.88	1025.44
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	972.00	921.38	869.63	820.13	781.88	742.50	705.94	675.56	641.25
45.0	936.56	882.00	833.63	793.13	748.13	712.69	676.13	641.25	609.75
90.0	886.50	842.46	796.67	753.19	717.08	679.95	644.96	616.28	584.38
135.0	897.75	858.94	817.31	774.56	738.56	709.31	667.13	640.13	617.06
180.0	891.79	851.18	810.17	768.43	735.36	699.02	664.82	637.71	606.60
225.0	940.16	887.18	845.04	800.83	757.80	723.43	689.06	649.86	619.93
270.0	995.06	940.50	883.69	833.63	793.13	756.00	711.00	676.69	644.63
315.0	960.36	907.82	856.24	808.43	769.33	728.66	693.45	657.23	623.81
360.0	972.00	921.38	869.63	820.13	781.88	742.50	705.94	675.56	641.25
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	610.88	579.38	551.81	529.88	506.81	478.13	453.94	429.19	401.06
45.0	579.38	550.69	529.31	513.56	482.63	460.13	441.56	410.63	386.44
90.0	560.14	535.39	513.90	495.79	477.51	451.63	429.53	406.63	380.36
135.0	581.63	560.25	541.69	520.88	503.44	484.31	467.44	447.75	422.44
180.0	583.59	558.96	537.08	519.47	503.55	485.72	469.07	448.99	420.36
225.0	591.86	562.73	537.41	518.96	498.66	477.51	458.89	435.83	412.20
270.0	610.88	580.50	554.06	526.50	501.75	482.63	459.00	433.13	406.69
315.0	596.03	569.14	536.06	512.04	489.09	459.39	434.81	409.28	383.34
360.0	610.88	579.38	551.81	529.88	506.81	478.13	453.94	429.19	401.06
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	380.25	357.19	330.19	304.88	286.31	258.24	236.98	212.85	188.33
45.0	369.56	343.13	316.69	297.56	284.06	248.91	225.11	197.33	176.51
90.0	359.89	337.39	311.12	286.54	267.64	244.18	220.39	195.24	174.43
135.0	394.88	372.38	347.06	321.19	297.56	284.06	244.63	222.30	202.61
180.0	398.87	379.35	356.12	330.58	307.35	281.42	257.91	231.81	208.01
225.0	386.83	362.53	339.92	315.84	290.76	268.82	249.30	223.37	197.10
270.0	382.50	361.69	339.75	311.06	289.69	284.63	241.88	219.77	197.49
315.0	359.38	336.99	311.68	289.29	267.92	243.68	222.41	202.56	179.72
360.0	380.25	357.19	330.19	304.88	286.31	258.24	236.98	212.85	188.33

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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	167.40	143.83	120.09	102.09	85.50	64.07	53.10	42.81	38.93		
45.0	157.89	136.18	115.82	99.11	79.54	63.11	52.82	42.41	35.78		
90.0	155.03	132.19	111.83	94.56	78.02	59.06	47.87	39.38	31.95		
135.0	179.16	156.83	137.03	115.20	94.84	77.23	59.96	47.64	37.13		
180.0	182.81	158.85	135.62	115.48	97.09	78.19	59.57	48.15	39.26		
225.0	174.49	154.29	134.21	111.99	92.98	74.70	59.91	47.08	39.26		
270.0	175.22	153.51	132.75	110.25	90.90	74.14	56.64	46.41	37.13		
315.0	157.39	136.69	112.73	97.31	80.21	61.43	49.84	41.40	36.17		
360.0	167.40	143.83	120.09	102.09	85.50	64.07	53.10	42.81	38.93		
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	36.51	34.03	30.94	28.07	25.93	23.85	20.36	16.14	15.41		
45.0	34.03	30.32	28.01	25.03	21.04	16.20	12.43	11.76	11.31		
90.0	29.14	26.72	23.29	20.59	14.40	12.26	11.70	11.19	10.74		
135.0	31.05	29.59	25.71	21.43	17.10	12.38	11.36	10.91	10.46		
180.0	33.08	30.94	28.29	24.02	20.14	14.79	11.31	10.74	10.35		
225.0	34.14	31.11	28.63	25.82	21.54	20.08	15.64	12.15	11.64		
270.0	32.46	29.08	26.21	22.67	21.32	19.46	18.00	15.75	13.84		
315.0	33.86	30.71	27.51	25.26	23.01	22.22	20.59	17.21	16.26		
360.0	36.51	34.03	30.94	28.07	25.93	23.85	20.36	16.14	15.41		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	14.79	14.40	13.78	13.39	13.11	12.94	12.54	12.21	11.98		
45.0	10.86	10.46	10.18	9.96	9.62	9.39	9.23	9.06	8.83		
90.0	10.46	10.18	9.79	9.56	9.34	9.11	8.89	8.66	8.44		
135.0	10.01	9.62	9.34	9.00	8.66	8.44	8.16	7.93	7.71		
180.0	9.90	9.51	9.17	8.89	8.55	8.27	8.04	7.82	7.59		
225.0	11.25	10.86	10.52	10.18	9.90	9.62	9.39	9.17	9.00		
270.0	13.22	12.83	12.54	12.15	11.93	11.64	11.48	11.25	11.03		
315.0	15.58	15.02	14.46	14.29	14.12	13.89	13.44	13.05	12.71		
360.0	14.79	14.40	13.78	13.39	13.11	12.94	12.54	12.21	11.98		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	11.53	11.14	10.91	10.91	10.69	10.46	9.96	9.62	8.89		
45.0	8.72	8.61	8.44	8.21	8.04	7.93	7.65	7.37	7.14		
90.0	8.21	8.04	7.88	7.71	7.54	7.31	7.14	6.98	6.75		
135.0	7.48	7.31	7.14	6.92	6.75	6.64	6.41	6.30	6.19		
180.0	7.37	7.14	6.98	6.75	6.64	6.47	6.36	6.24	6.19		
225.0	8.78	8.61	8.44	8.33	8.10	7.99	7.82	7.54	7.43		
270.0	10.80	10.41	10.29	10.18	9.84	9.68	9.39	9.17	9.17		
315.0	12.54	12.32	12.15	11.48	10.86	10.97	10.69	10.18	9.56		
360.0	11.53	11.14	10.91	10.91	10.69	10.46	9.96	9.62	8.89		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	8.44	7.82	7.54	7.37	7.20	6.98	5.01	4.95	4.89		
45.0	6.98	6.64	6.47	6.30	6.19	6.02	4.95	4.84	4.78		
90.0	6.53	6.36	6.08	5.85	5.57	5.34	4.84	4.73	4.67		
135.0	6.02	5.96	5.96	5.85	5.68	5.63	5.29	4.95	4.89		
180.0	5.96	5.79	5.68	5.51	5.46	5.40	5.12	5.01	5.01		
225.0	7.26	7.03	6.81	6.69	6.69	6.53	5.91	5.63	5.12		
270.0	8.89	8.55	8.27	7.93	7.59	7.03	5.34	5.06	4.89		
315.0	9.23	8.83	8.49	8.10	7.82	5.34	5.06	5.01	4.78		
360.0	8.44	7.82	7.54	7.37	7.20	6.98	5.01	4.95	4.89		

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Intensity data(cd)

Appendix Page: 19 Total:19

C/ $\gamma(^{\circ})$	90.0
0.0	4.50
45.0	4.56
90.0	4.61
135.0	4.84
180.0	4.95
225.0	4.95
270.0	4.50
315.0	4.50
360.0	4.50