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NATA

LumCAT: 1656-S
Luminaire: 92.70.124.00
Report No: NATA0100
Test No: GC2019011114
LampCAT: SEOUL SAWx10 LES9.8
Lamp flux(lm): 1491.5
Number of Lamps: 1
Length(mm): 47
Phm Type: C
Voltage(V): 34.6000
Current(A): 0.3000
Power (W): 10.3800
PF: 0.0000
Ballast type: DC
Width(mm): 47
Height(mm): 0

Photometric Results

Lumens(lm): 1339.08
Efficiency(%): 89.78%
Lumens(lm)/Power(W): 129.19
Central intensity(cd): 8142.469
Maximum intensity(cd): 8142.469
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=16.2
[C90/270]Total=16.2
Field angle(10%Imax): [C0/180]Total=37.9
[C90/270]Total=37.9
Maximum s/h(1/2): C0_180=0.28 C90_270=0.28
Maximum s/h(1/4): C0_180=0.30 C90_270=0.30
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.91%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.326%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8142.469	1.948	1.948	.131%	.145%
1.0	8088.469	15.480	17.428	1.038%	1.301%
2.0	7878.656	30.152	47.581	2.022%	3.553%
3.0	7509.305	43.097	90.678	2.890%	6.772%
4.0	6996.305	53.519	144.197	3.588%	10.768%
5.0	6293.250	60.148	204.345	4.033%	15.260%
6.0	5569.242	63.838	268.183	4.280%	20.027%
7.0	4826.320	64.500	332.684	4.325%	24.844%
8.0	4149.422	63.328	396.012	4.246%	29.573%
9.0	3513.867	60.279	456.291	4.042%	34.075%
10.0	2957.906	56.326	512.617	3.776%	38.281%
11.0	2495.531	52.217	564.834	3.501%	42.181%
12.0	2117.953	48.289	613.123	3.238%	45.787%
13.0	1779.047	43.886	657.009	2.942%	49.064%
14.0	1505.531	39.941	696.95	2.678%	52.047%
15.0	1292.147	36.674	733.624	2.459%	54.786%
16.0	1119.846	33.849	767.473	2.270%	57.313%
17.0	992.538	31.823	799.296	2.134%	59.690%
18.0	887.414	30.072	829.367	2.016%	61.935%
19.0	809.592	28.904	858.272	1.938%	64.094%
20.0	738.823	27.710	885.982	1.858%	66.163%
21.0	687.192	27.006	912.988	1.811%	68.180%
22.0	645.933	26.535	939.523	1.779%	70.162%
23.0	611.395	26.197	965.72	1.756%	72.118%
24.0	584.072	26.051	991.771	1.747%	74.063%
25.0	561.811	26.037	1017.808	1.746%	76.008%
26.0	543.755	26.139	1043.947	1.753%	77.960%
27.0	527.027	26.238	1070.186	1.759%	79.919%
28.0	513.035	26.412	1096.598	1.771%	81.892%
29.0	498.502	26.503	1123.101	1.777%	83.871%
30.0	479.552	26.294	1149.395	1.763%	85.834%
31.0	448.397	25.325	1174.72	1.698%	87.726%
32.0	406.273	23.609	1198.329	1.583%	89.489%
33.0	362.911	21.675	1220.004	1.453%	91.107%
34.0	314.290	19.273	1239.277	1.292%	92.547%
35.0	266.316	16.751	1256.028	1.123%	93.798%
36.0	210.375	13.560	1269.588	.909%	94.810%
37.0	159.623	10.534	1280.122	.706%	95.597%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	114.609	7.738	1287.86	.519%	96.175%
39.0	73.582	5.078	1292.938	.340%	96.554%
40.0	46.364	3.268	1296.206	.219%	96.798%
41.0	31.380	2.258	1298.464	.151%	96.967%
42.0	24.434	1.793	1300.257	.120%	97.101%
43.0	20.032	1.498	1301.755	.100%	97.212%
44.0	16.622	1.266	1303.021	.085%	97.307%
45.0	14.534	1.127	1304.148	.076%	97.391%
46.0	13.732	1.083	1305.231	.073%	97.472%
47.0	13.120	1.052	1306.284	.071%	97.551%
48.0	12.565	1.024	1307.308	.069%	97.627%
49.0	12.073	0.999	1308.307	.067%	97.702%
50.0	11.609	0.975	1309.282	.065%	97.775%
51.0	11.250	0.959	1310.241	.064%	97.846%
52.0	10.927	0.944	1311.185	.063%	97.917%
53.0	10.666	0.934	1312.119	.063%	97.986%
54.0	10.434	0.926	1313.045	.062%	98.056%
55.0	10.273	0.923	1313.968	.062%	98.124%
56.0	10.146	0.922	1314.89	.062%	98.193%
57.0	10.027	0.922	1315.812	.062%	98.262%
58.0	9.865	0.917	1316.729	.062%	98.331%
59.0	9.668	0.909	1317.638	.061%	98.399%
60.0	9.429	0.895	1318.534	.060%	98.465%
61.0	9.148	0.877	1319.411	.059%	98.531%
62.0	8.888	0.861	1320.272	.058%	98.595%
63.0	8.529	0.833	1321.105	.056%	98.657%
64.0	8.170	0.805	1321.91	.054%	98.718%
65.0	7.840	0.779	1322.689	.052%	98.776%
66.0	7.530	0.754	1323.444	.051%	98.832%
67.0	7.270	0.734	1324.178	.049%	98.887%
68.0	7.059	0.718	1324.895	.048%	98.941%
69.0	6.891	0.705	1325.601	.047%	98.993%
70.0	6.792	0.700	1326.301	.047%	99.045%
71.0	6.694	0.694	1326.995	.047%	99.097%
72.0	6.616	0.690	1327.685	.046%	99.149%
73.0	6.532	0.685	1328.37	.046%	99.200%
74.0	6.483	0.683	1329.053	.046%	99.251%
75.0	6.427	0.681	1329.734	.046%	99.302%

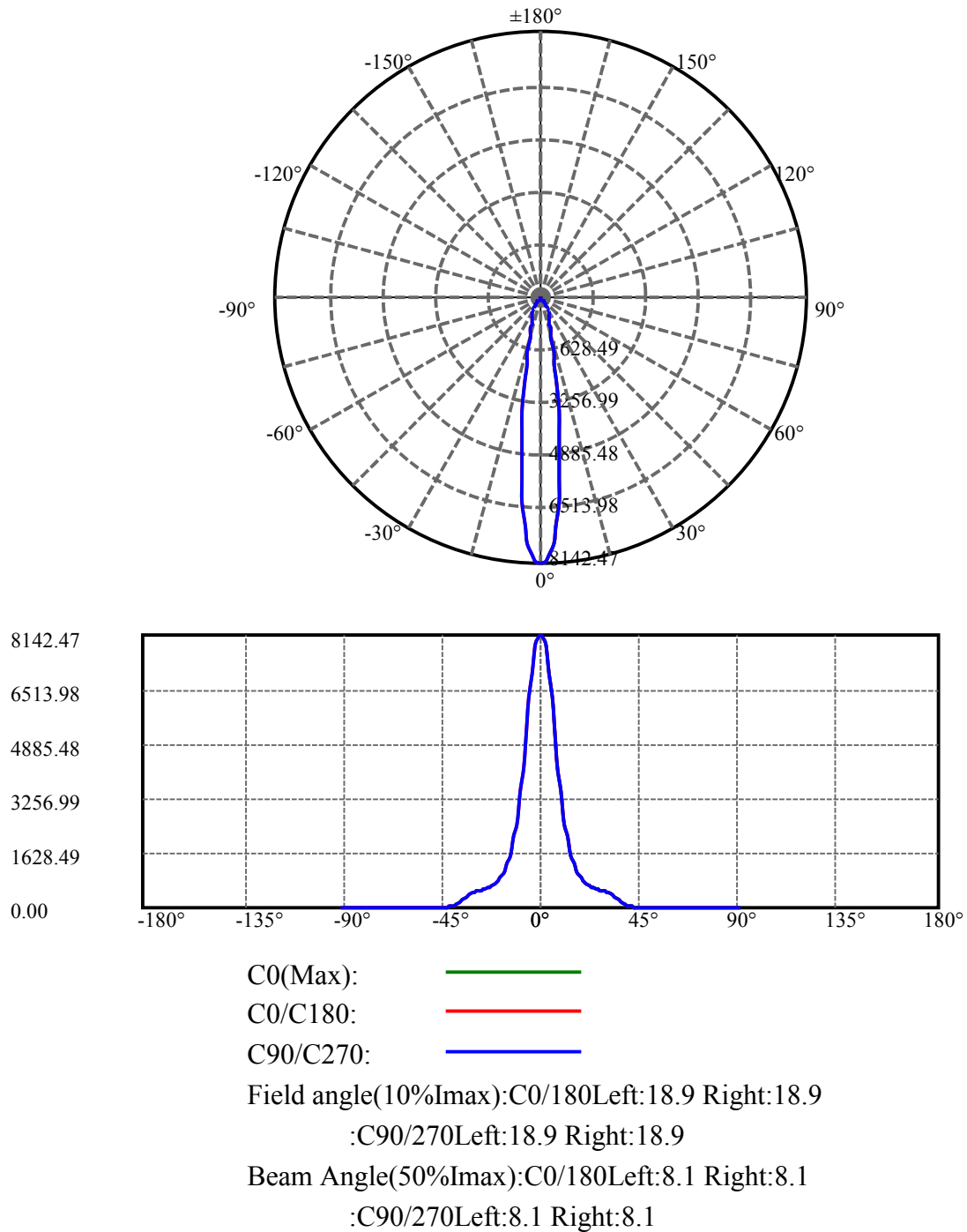
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.370	0.678	1330.412	.045%	99.352%
77.0	6.314	0.675	1331.086	.045%	99.403%
78.0	6.237	0.669	1331.755	.045%	99.453%
79.0	6.166	0.664	1332.419	.045%	99.502%
80.0	6.103	0.659	1333.078	.044%	99.552%
81.0	6.033	0.653	1333.732	.044%	99.600%
82.0	5.970	0.648	1334.38	.043%	99.649%
83.0	5.941	0.647	1335.027	.043%	99.697%
84.0	5.864	0.640	1335.666	.043%	99.745%
85.0	5.808	0.634	1336.301	.043%	99.792%
86.0	5.745	0.628	1336.929	.042%	99.839%
87.0	5.681	0.622	1337.551	.042%	99.886%
88.0	5.639	0.618	1338.169	.041%	99.932%
89.0	5.576	0.611	1338.781	.041%	99.977%
90.0	5.505	0.302	1339.083	.020%	100.000%

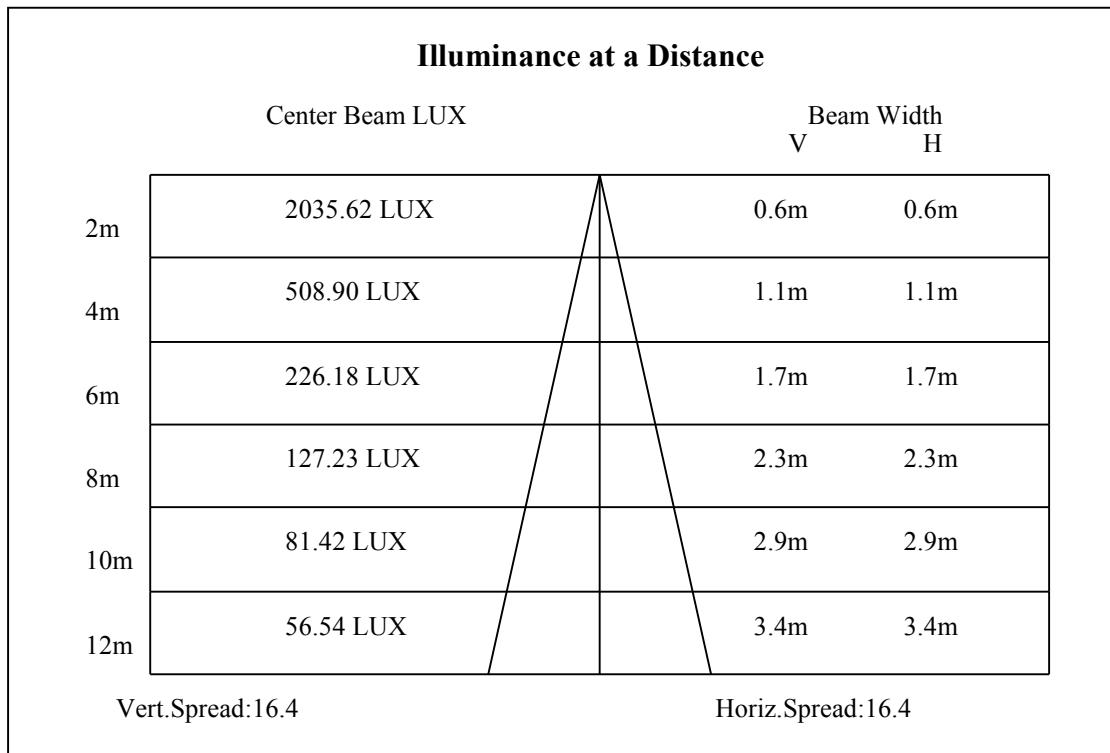
ZONAL LUMEN SUMMARY

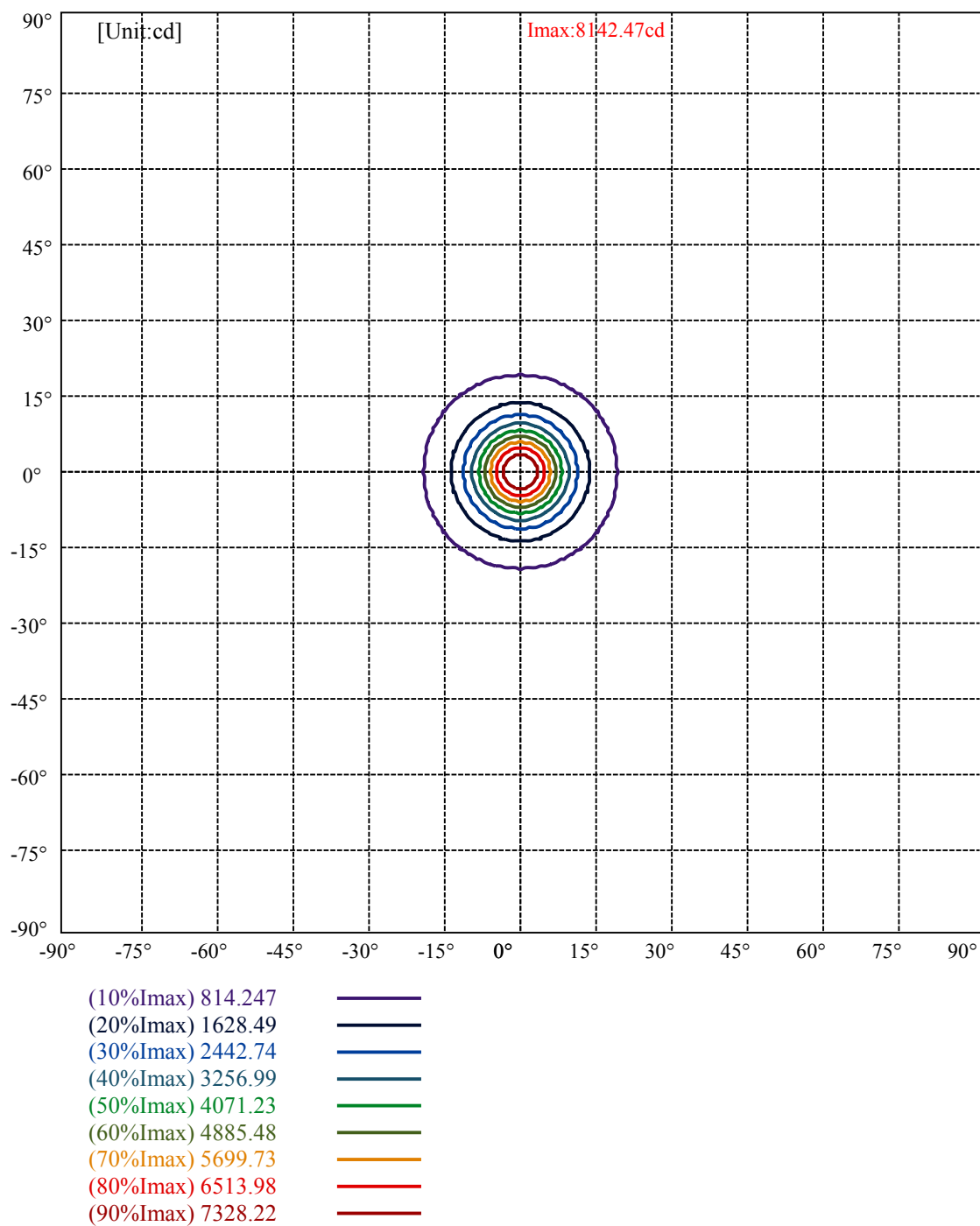
Zone	Lumens	%Lamp	%Fixt
0-30	1149.39	77.06%	85.83%
0-40	1296.21	86.91%	96.80%
0-60	1318.53	88.40%	98.47%
0-90	1338.78	89.76%	99.98%
0-120	1338.78	89.76%	99.98%
0-180	1339.08	89.78%	100.00%
60-90	21.14	1.42%	1.58%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.04	1071.27	71.83%	80.00%

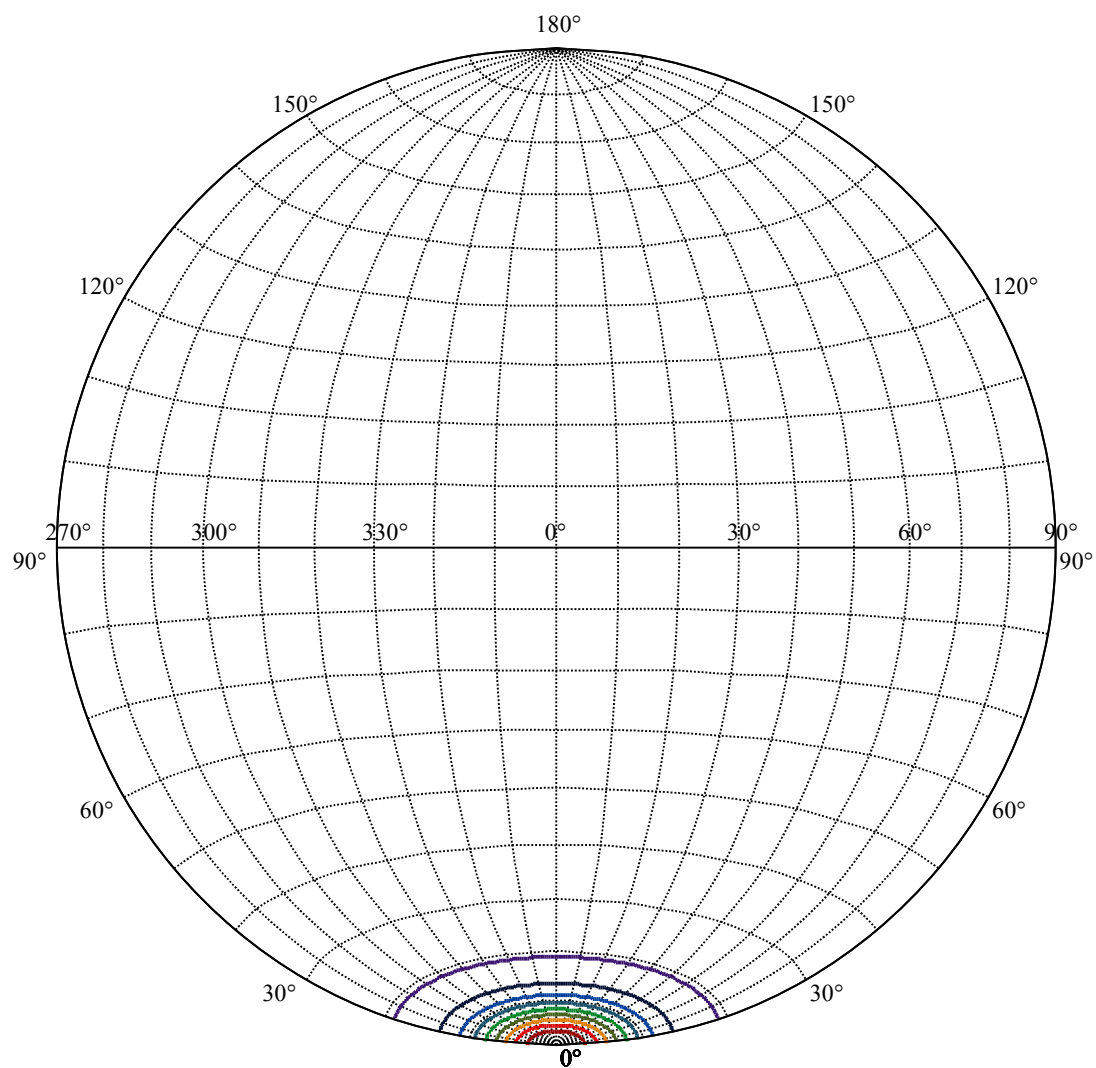
ZONAL LUMEN SUMMARY

0-10	512.62
10-20	373.37
20-30	263.41
30-40	146.81
40-50	13.08
50-60	9.25
60-70	7.77
70-80	6.78
80-90	5.70
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:8142.47

(10%Imax) 814.247

(20%Imax) 1628.49

(30%Imax) 2442.74

(40%Imax) 3256.99

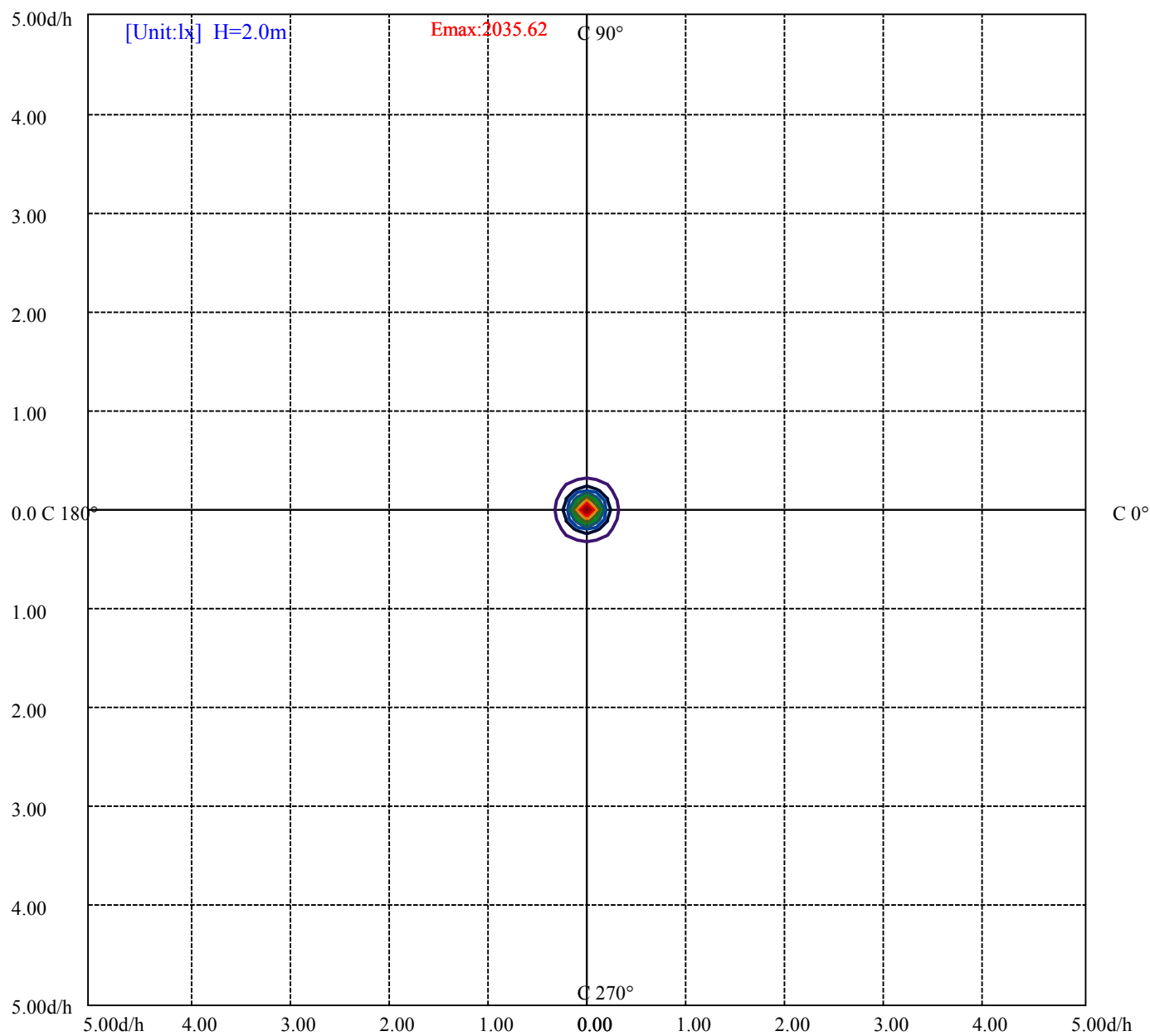
(50%Imax) 4071.23

(60%Imax) 4885.48

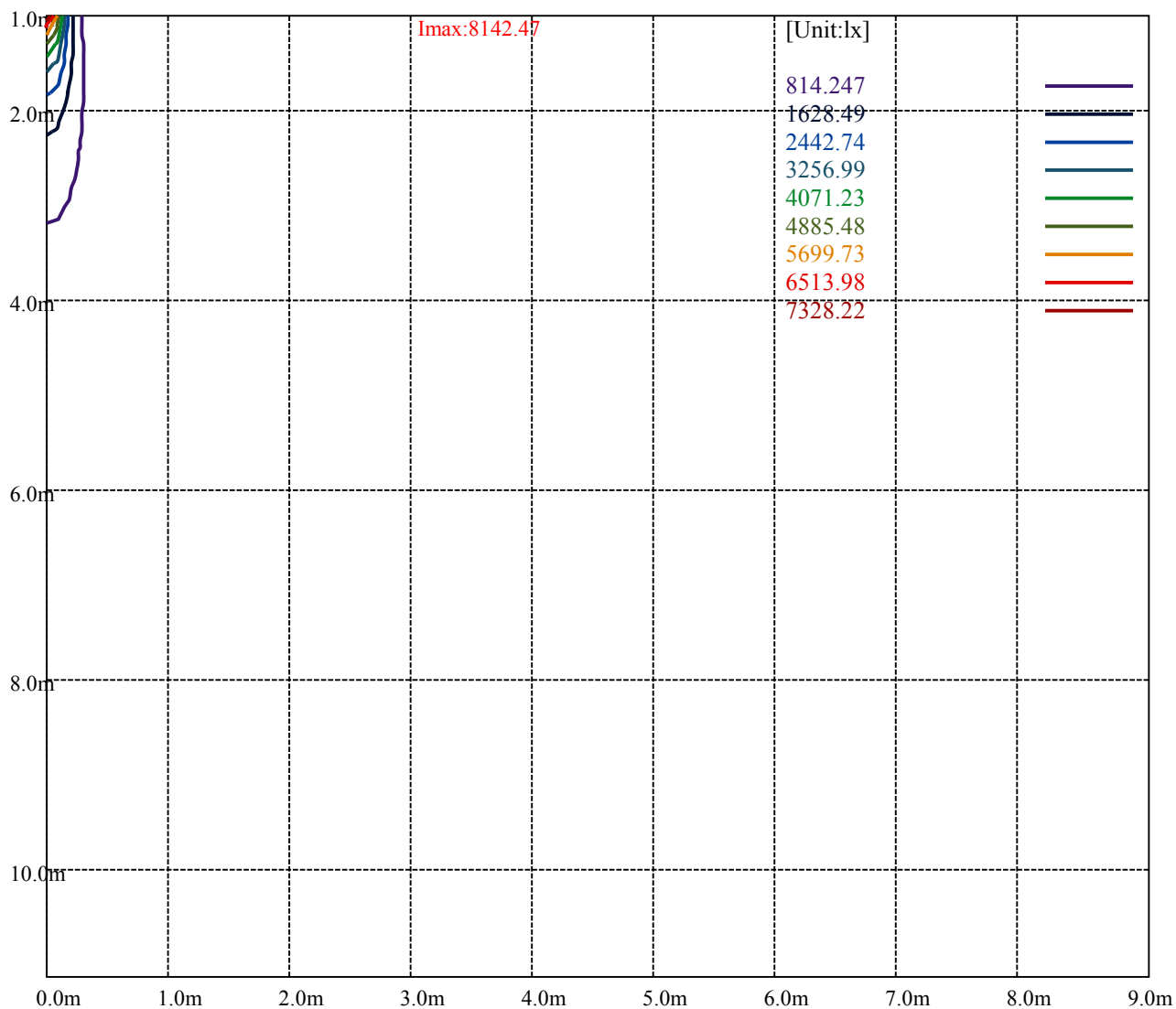
(70%Imax) 5699.73

(80%Imax) 6513.98

(90%Imax) 7328.22



(10%Emax) 203.5615	
(20%Emax) 407.1225	
(30%Emax) 610.685	
(40%Emax) 814.245	
(50%Emax) 1017.807	
(60%Emax) 1221.37	
(70%Emax) 1424.93	
(80%Emax) 1628.493	
(90%Emax) 1832.052	



Luminance Table

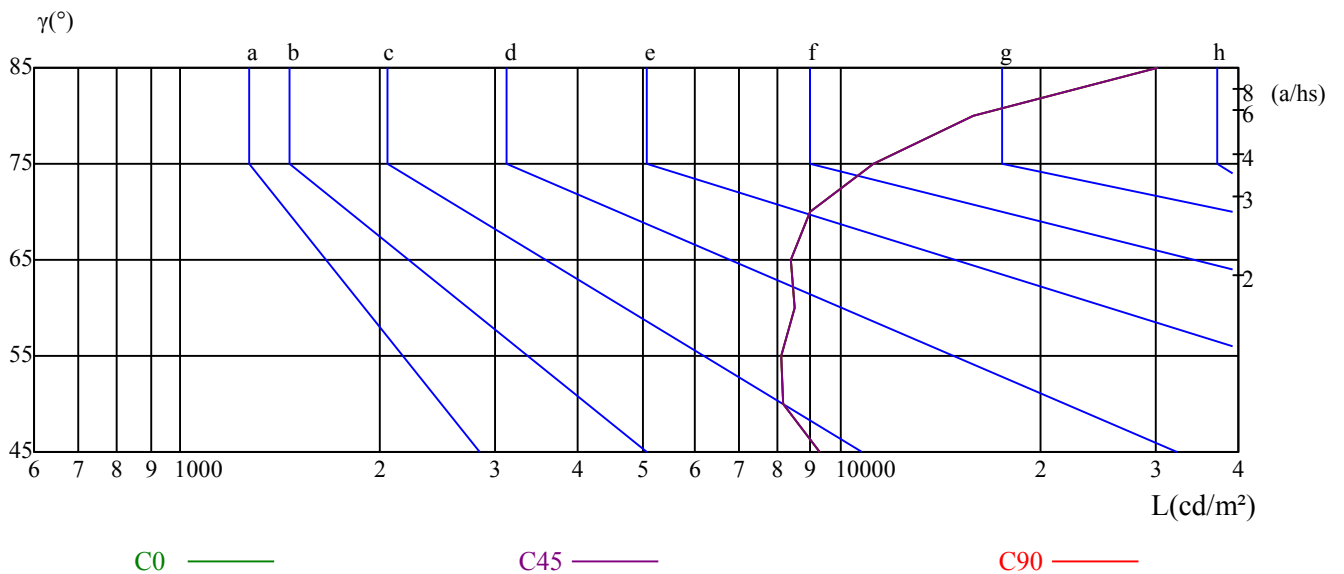
γ	45	50	55	60	65	70	75	80	85
C0	9304	8176	8108	8537	8398	8990	11241	15911	30166
C45	9304	8176	8108	8537	8398	8990	11241	15911	30166
C90	9304	8176	8108	8537	8398	8990	11241	15911	30166

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
8398	8398	8398	11241	11241	11241	30166	30166	30166

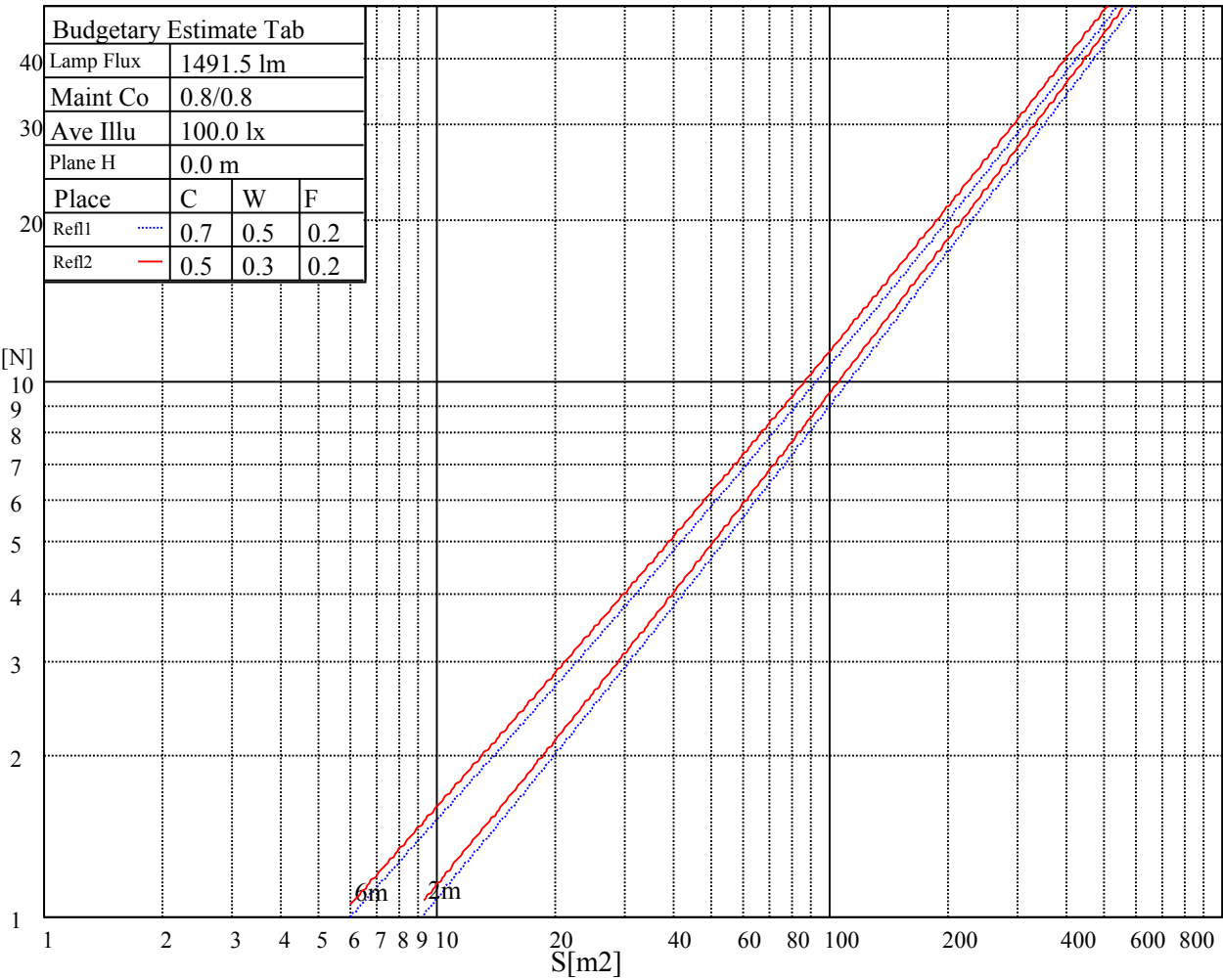
Glare Table

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

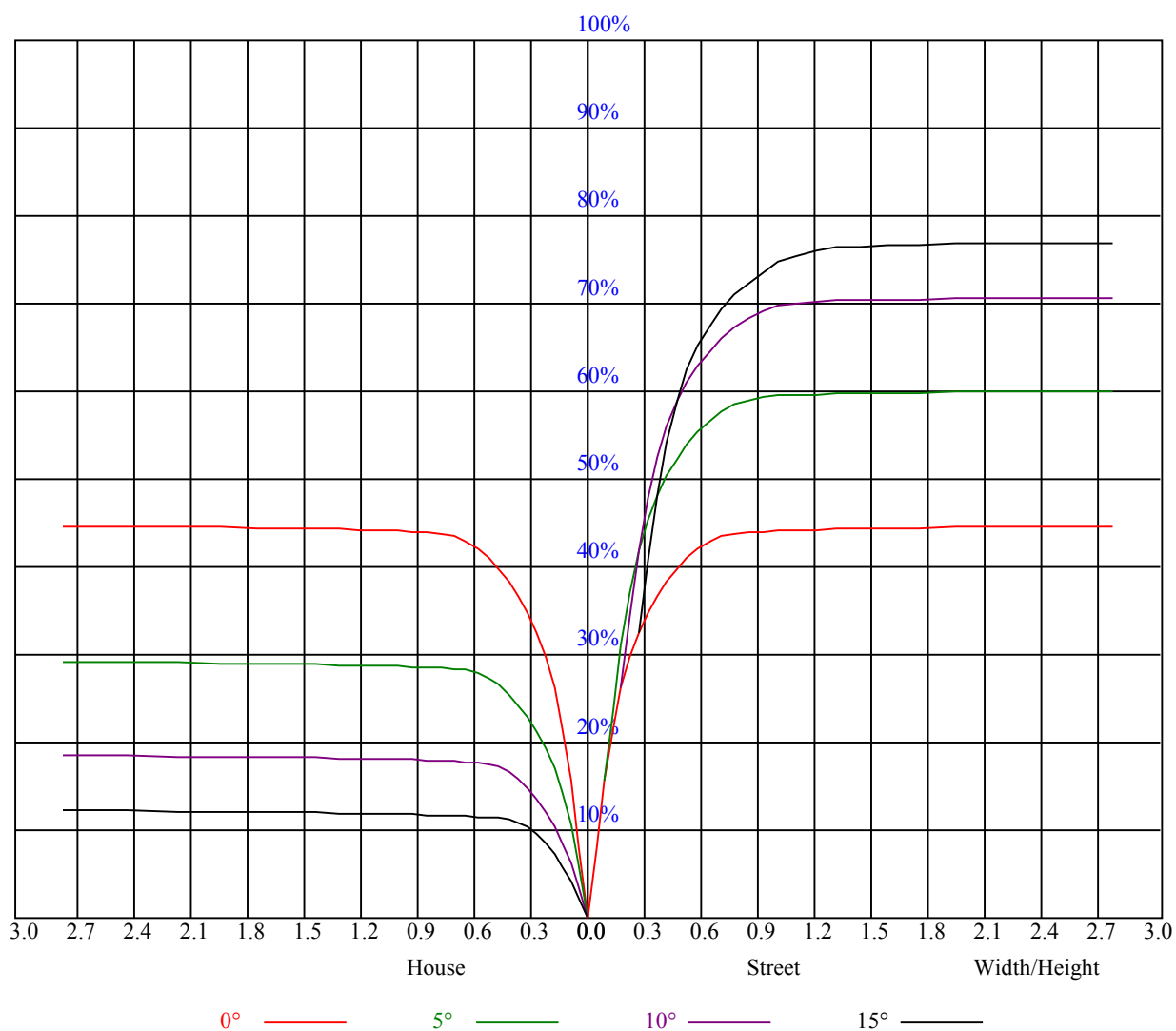
Luminance Limiting Curve



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	9.20	10.12	9.56	10.43	10.74	7.90	8.82	8.27	9.14	9.45
	3H	11.23	12.04	11.62	12.38	12.75	10.40	11.21	10.78	11.55	11.92
	4H	12.53	13.28	12.94	13.64	14.03	11.72	12.47	12.13	12.83	13.22
	6H	14.07	14.75	14.49	15.13	15.53	13.30	13.99	13.72	14.36	14.76
	8H	14.91	15.56	15.35	15.95	16.36	14.22	14.87	14.66	15.26	15.67
	12H	16.31	16.92	16.74	17.31	17.74	15.80	16.41	16.23	16.80	17.23
4H	2H	9.67	10.42	10.08	10.78	11.17	8.69	9.44	9.09	9.79	10.18
	3H	12.02	12.64	12.43	13.05	13.45	11.40	12.02	11.81	12.43	12.83
	4H	13.54	14.09	13.98	14.51	14.96	12.91	13.46	13.35	13.89	14.34
	6H	15.23	15.70	15.70	16.15	16.63	14.65	15.13	15.13	15.58	16.05
	8H	16.23	16.66	16.70	17.12	17.59	15.70	16.14	16.18	16.59	17.06
	12H	17.61	17.99	18.11	18.48	18.96	17.21	17.59	17.71	18.08	18.56
8H	4H	14.03	14.47	14.51	14.92	15.40	13.53	13.97	14.01	14.42	14.90
	6H	16.03	16.38	16.55	16.88	17.37	15.58	15.92	16.09	16.43	16.91
	8H	17.23	17.54	17.77	18.06	18.56	16.82	17.12	17.35	17.65	18.15
	12H	18.84	19.10	19.37	19.60	20.19	18.53	18.79	19.06	19.29	19.88
12H	4H	14.17	14.54	14.66	15.03	15.51	13.71	14.08	14.20	14.57	15.05
	6H	16.48	16.58	16.82	17.06	17.61	16.08	16.18	16.41	16.65	17.20
	8H	17.61	17.87	18.13	18.37	18.95	17.24	17.51	17.77	18.00	18.59
Variation with the observer position at spacings:											
S = 1.0H		5.4/-5.5					5.4/-5.5				
S = 1.5H		7.4/-4.2					7.4/-4.2				
S = 2.0H		8.6/-3.1					8.6/-3.1				
Standard tables:		BK3					BK3				
Uncorrected UGR		2.3					2.3				



RHOC	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	1.07	1.07	1.07	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	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.84	0.90	0.86	0.84	0.87	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.79
4	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.80	0.78	0.81	0.79	0.77	0.76
5	0.83	0.79	0.76	0.82	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.74	0.73
6	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
7	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.74	0.70	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.66
9	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62



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	8138.81	8110.69	7894.13	7551.00	7059.94	6249.38	5546.81	4860.56	4142.25
45.0	8141.06	8128.13	7972.31	7629.75	7157.81	6457.50	5670.56	4955.06	4292.44
90.0	8166.94	8148.94	8006.63	7693.88	7187.06	6584.06	5889.38	5003.44	4340.25
135.0	8123.06	8173.69	8078.63	7863.75	7508.25	6849.56	6188.06	5482.69	4730.63
180.0	8138.81	8069.06	7853.06	7457.06	6932.25	6188.63	5477.63	4713.19	4013.44
225.0	8141.06	8035.31	7801.31	7398.56	6791.63	6129.56	5429.81	4618.69	4000.50
270.0	8166.94	8075.81	7817.06	7394.06	6855.19	6192.00	5339.81	4685.06	4055.63
315.0	8123.06	7966.13	7606.13	7086.38	6478.31	5695.31	5011.88	4291.88	3620.25
360.0	8138.81	8110.69	7894.13	7551.00	7059.94	6249.38	5546.81	4860.56	4142.25
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3497.06	2991.94	2513.25	2155.50	1818.56	1544.06	1346.06	1163.81	1025.44
45.0	3544.31	3014.44	2550.94	2113.31	1754.44	1499.63	1269.56	1093.50	972.00
90.0	3717.00	3036.38	2574.00	2188.13	1786.50	1529.44	1318.50	1105.76	990.73
135.0	4030.31	3454.31	2880.56	2443.50	2026.69	1698.75	1462.50	1249.88	1089.00
180.0	3445.31	2892.94	2436.19	2094.75	1806.19	1515.38	1327.50	1119.94	1029.77
225.0	3435.75	2823.19	2406.94	2052.00	1722.38	1457.44	1213.31	1089.90	970.99
270.0	3350.81	2866.50	2444.63	2055.38	1739.81	1478.81	1281.94	1116.56	971.44
315.0	3090.38	2583.56	2157.75	1841.06	1577.81	1320.75	1117.80	1019.42	890.94
360.0	3497.06	2991.94	2513.25	2155.50	1818.56	1544.06	1346.06	1163.81	1025.44
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	928.13	849.38	771.19	720.00	679.50	642.38	611.44	588.94	569.25
45.0	859.50	786.94	723.38	675.00	640.13	614.81	588.38	572.63	557.44
90.0	872.94	790.14	716.23	655.76	600.75	555.36	523.07	494.72	475.54
135.0	975.94	885.94	798.75	742.50	696.38	652.50	623.25	597.38	575.44
180.0	918.00	838.18	766.41	710.38	669.83	633.26	605.53	580.05	560.93
225.0	867.99	787.50	733.05	684.96	648.28	622.13	599.91	578.19	562.05
270.0	861.75	785.25	707.63	649.69	600.75	569.81	536.63	518.06	502.31
315.0	815.06	753.41	693.96	659.25	631.86	600.92	584.38	564.53	547.09
360.0	928.13	849.38	771.19	720.00	679.50	642.38	611.44	588.94	569.25
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	551.81	538.31	523.69	505.69	470.25	423.00	376.88	323.44	286.31
45.0	540.00	526.50	514.13	497.25	464.06	422.44	379.13	320.63	285.19
90.0	459.96	446.79	433.18	419.40	399.71	363.71	334.63	300.49	261.34
135.0	554.63	540.00	526.50	513.56	496.13	469.69	424.13	374.06	324.56
180.0	543.38	529.71	514.74	496.24	467.04	419.68	368.10	320.34	270.79
225.0	548.33	534.94	518.57	497.53	459.11	409.73	363.71	314.72	258.41
270.0	481.50	463.50	449.44	428.63	393.75	366.75	325.69	284.06	227.48
315.0	536.63	524.53	507.77	478.13	437.12	375.19	331.03	276.58	216.45
360.0	551.81	538.31	523.69	505.69	470.25	423.00	376.88	323.44	286.31
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	214.03	165.99	113.40	68.85	40.95	26.49	20.25	16.09	12.60
45.0	229.84	171.79	123.98	84.09	48.60	31.61	25.93	20.98	17.72
90.0	208.69	165.88	124.71	87.41	58.50	40.73	32.74	28.01	23.68
135.0	284.06	210.21	155.25	106.54	68.18	41.74	26.55	22.33	18.34
180.0	209.76	164.31	120.88	72.39	42.98	26.89	20.25	15.47	11.93
225.0	203.34	151.82	109.18	66.21	41.12	27.90	23.51	18.56	15.02
270.0	173.81	131.40	97.99	59.40	41.74	32.18	26.55	22.84	19.63
315.0	159.47	115.59	71.49	43.76	28.86	23.51	19.69	15.98	14.06
360.0	214.03	165.99	113.40	68.85	40.95	26.49	20.25	16.09	12.60

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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	10.35	9.90	9.45	9.06	8.66	8.44	8.16	8.04	7.88		
45.0	15.64	15.08	14.79	14.34	13.73	13.33	12.99	12.60	12.21		
90.0	20.70	19.29	18.06	17.16	16.37	15.41	14.63	13.95	13.33		
135.0	14.29	12.83	12.32	11.87	11.42	11.08	10.80	10.52	10.35		
180.0	9.84	9.34	8.94	8.61	8.38	8.16	8.04	7.88	7.82		
225.0	13.84	13.28	12.54	12.04	11.59	11.14	10.86	10.58	10.46		
270.0	17.94	16.88	16.14	15.13	14.46	13.84	13.33	12.88	12.49		
315.0	13.67	13.28	12.71	12.32	11.98	11.48	11.19	10.97	10.80		
360.0	10.35	9.90	9.45	9.06	8.66	8.44	8.16	8.04	7.88		
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	7.82	7.82	7.82	7.88	7.93	7.99	8.10	8.16	8.27		
45.0	11.93	11.53	11.08	10.69	10.35	10.01	9.73	9.28	9.00		
90.0	12.71	12.26	11.76	11.48	11.08	10.63	10.24	9.79	9.28		
135.0	10.24	10.29	10.46	10.58	10.69	10.69	10.46	10.24	9.84		
180.0	7.76	7.82	7.82	7.88	7.88	7.88	7.88	7.82	7.82		
225.0	10.46	10.41	10.52	10.52	10.41	10.29	10.13	9.96	9.62		
270.0	12.09	11.76	11.64	11.31	10.91	10.58	10.01	9.56	9.17		
315.0	10.46	10.29	10.07	9.90	9.68	9.28	8.89	8.38	8.10		
360.0	7.82	7.82	7.82	7.88	7.93	7.99	8.10	8.16	8.27		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	8.27	8.27	8.16	7.93	7.59	7.26	6.92	6.69	6.58		
45.0	8.61	8.10	7.76	7.48	7.14	6.92	6.86	6.75	6.64		
90.0	8.94	8.44	8.10	7.76	7.59	7.43	7.31	7.20	7.14		
135.0	9.39	8.83	8.38	7.71	7.37	7.03	6.81	6.69	6.58		
180.0	7.71	7.54	7.37	7.26	7.09	6.92	6.64	6.58	6.47		
225.0	9.06	8.61	7.88	7.48	7.14	6.92	6.81	6.69	6.64		
270.0	8.49	8.16	7.88	7.65	7.48	7.37	7.26	7.26	7.14		
315.0	7.76	7.43	7.20	6.98	6.75	6.64	6.53	6.47	6.36		
360.0	8.27	8.27	8.16	7.93	7.59	7.26	6.92	6.69	6.58		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	6.41	6.30	6.24	6.13	6.08	6.02	5.96	5.91	5.91		
45.0	6.58	6.47	6.41	6.36	6.30	6.24	6.19	6.13	6.13		
90.0	7.09	7.03	7.03	7.03	6.98	6.86	6.81	6.69	6.53		
135.0	6.47	6.41	6.36	6.30	6.24	6.19	6.08	6.02	6.02		
180.0	6.36	6.24	6.19	6.13	6.08	6.02	5.96	5.91	5.85		
225.0	6.58	6.47	6.41	6.36	6.30	6.24	6.19	6.13	6.08		
270.0	7.14	7.14	7.09	7.03	6.98	6.98	6.81	6.69	6.53		
315.0	6.30	6.19	6.13	6.08	6.02	5.96	5.91	5.85	5.79		
360.0	6.41	6.30	6.24	6.13	6.08	6.02	5.96	5.91	5.91		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	5.91	5.85	5.91	5.85	5.85	5.79	5.74	5.79	5.74		
45.0	6.02	6.02	5.96	5.96	5.85	5.74	5.74	5.68	5.68		
90.0	6.41	6.24	6.13	6.02	5.91	5.79	5.68	5.57	5.51		
135.0	5.96	5.91	5.91	5.85	5.85	5.79	5.74	5.74	5.63		
180.0	5.85	5.85	5.85	5.79	5.74	5.74	5.68	5.63	5.51		
225.0	5.96	5.96	5.96	5.91	5.85	5.74	5.68	5.63	5.57		
270.0	6.36	6.19	6.08	5.91	5.74	5.68	5.57	5.51	5.46		
315.0	5.79	5.74	5.74	5.63	5.68	5.68	5.63	5.57	5.51		
360.0	5.91	5.85	5.91	5.85	5.85	5.79	5.74	5.79	5.74		

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Intensity data(cd)

Appendix Page: 19 Total:19

C/ $\gamma(^{\circ})$	90.0
0.0	5.63
45.0	5.57
90.0	5.46
135.0	5.51
180.0	5.46
225.0	5.51
270.0	5.46
315.0	5.46
360.0	5.63