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NATA

Client:

LumCAT: 1535-E

Luminaire: 92.70.043.00

Report No: nt0100

Test No: GC20200115114

LampCAT: LUMINUS CXM-6-AC40

Lamp flux(lm): 850.2

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 34.7700

Current(A): 0.1970

Power (W): 6.8500

PF: 0.0000

Ballast type: DC

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 738.42, Efficiency(%): 86.86% , Luminous Efficacy(lm/W): 107.80

Central intensity(cd): 1392.750, Maximum intensity(cd): 1392.750

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=36.2

[C90/270]Total=36.2

Field angle(10%Imax): [C0/180]Total=77.0

[C90/270]Total=77.0

Maximum s/h(1/2): C0_180=0.58 C90_270=0.58

Maximum s/h(1/4): C0_180=0.63 C90_270=0.63

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 86.86%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.013%

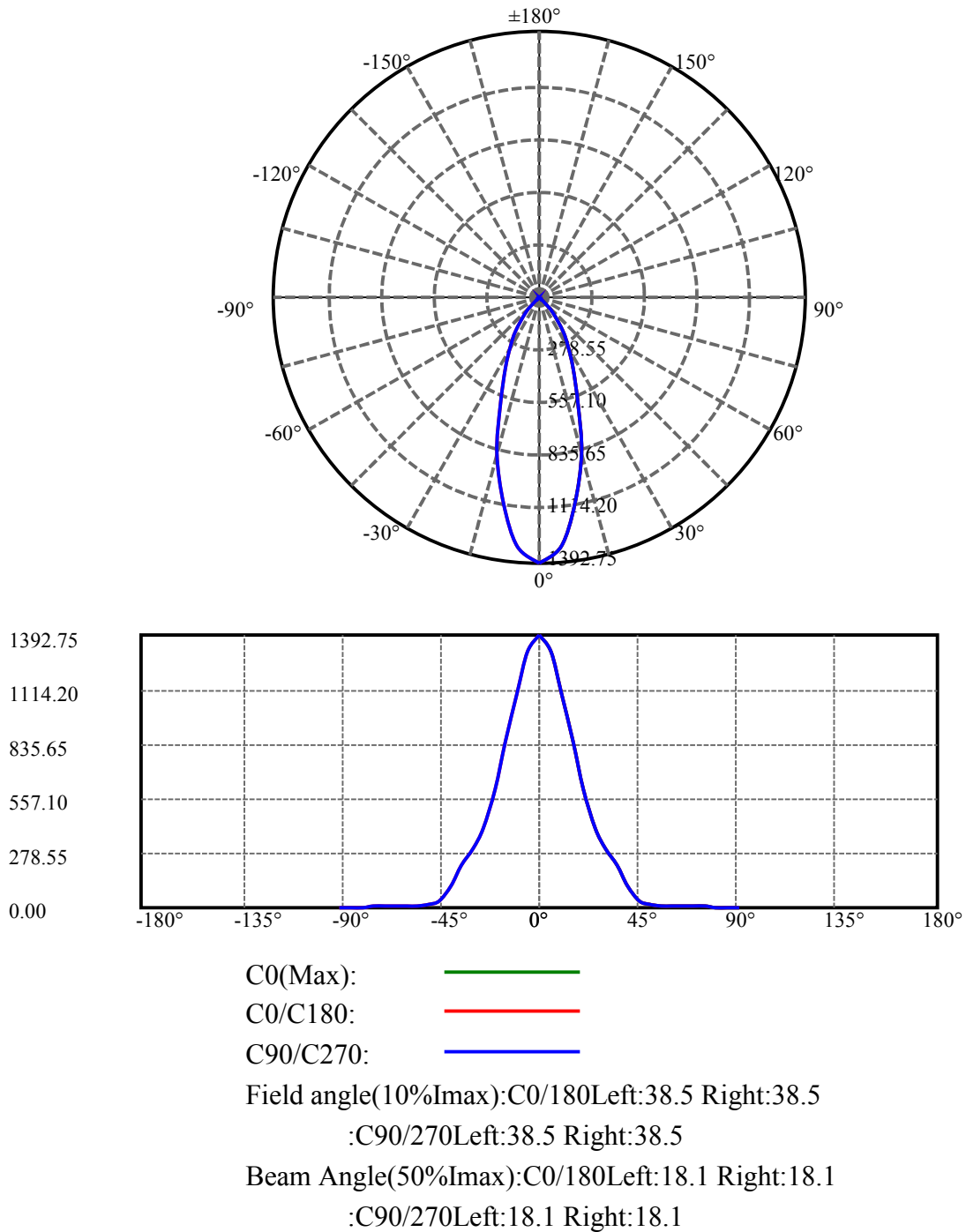
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1392.750	0.000	0	.000%	.000%
5.0	1304.719	32.247	32.247	3.793%	4.367%
10.0	1096.073	85.884	118.131	10.102%	15.998%
15.0	847.828	115.311	233.442	13.563%	31.614%
20.0	605.166	119.747	353.189	14.085%	47.830%
25.0	409.634	106.434	459.623	12.519%	62.244%
30.0	301.479	89.992	549.615	10.585%	74.431%
35.0	212.667	75.712	625.327	8.905%	84.685%
40.0	108.844	53.642	678.968	6.310%	91.949%
45.0	31.514	25.988	704.957	3.057%	95.468%
50.0	17.009	9.805	714.761	1.153%	96.796%
55.0	8.276	5.498	720.259	.647%	97.541%
60.0	6.799	3.485	723.744	.410%	98.013%
65.0	5.730	3.046	726.79	.358%	98.425%
70.0	5.027	2.724	729.513	.320%	98.794%
75.0	4.634	2.525	732.039	.297%	99.136%
80.0	4.155	2.352	734.39	.277%	99.454%
85.0	3.734	2.144	736.534	.252%	99.745%
90.0	3.150	1.885	738.419	.222%	100.000%

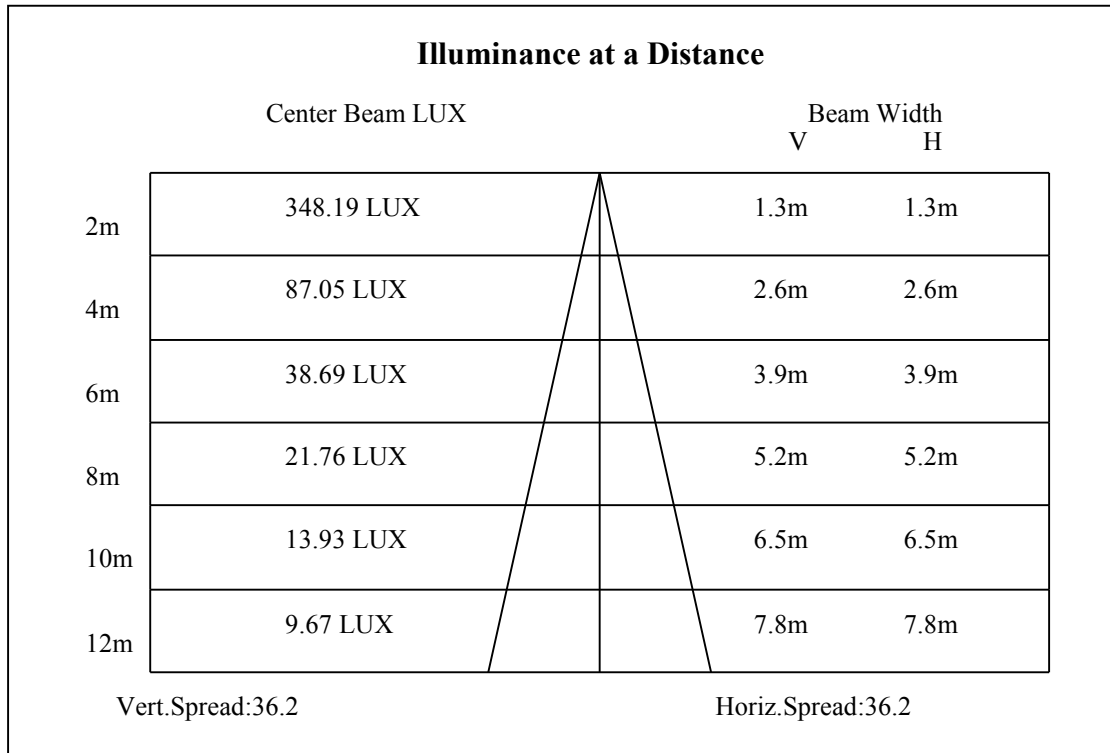
ZONAL LUMEN SUMMARY

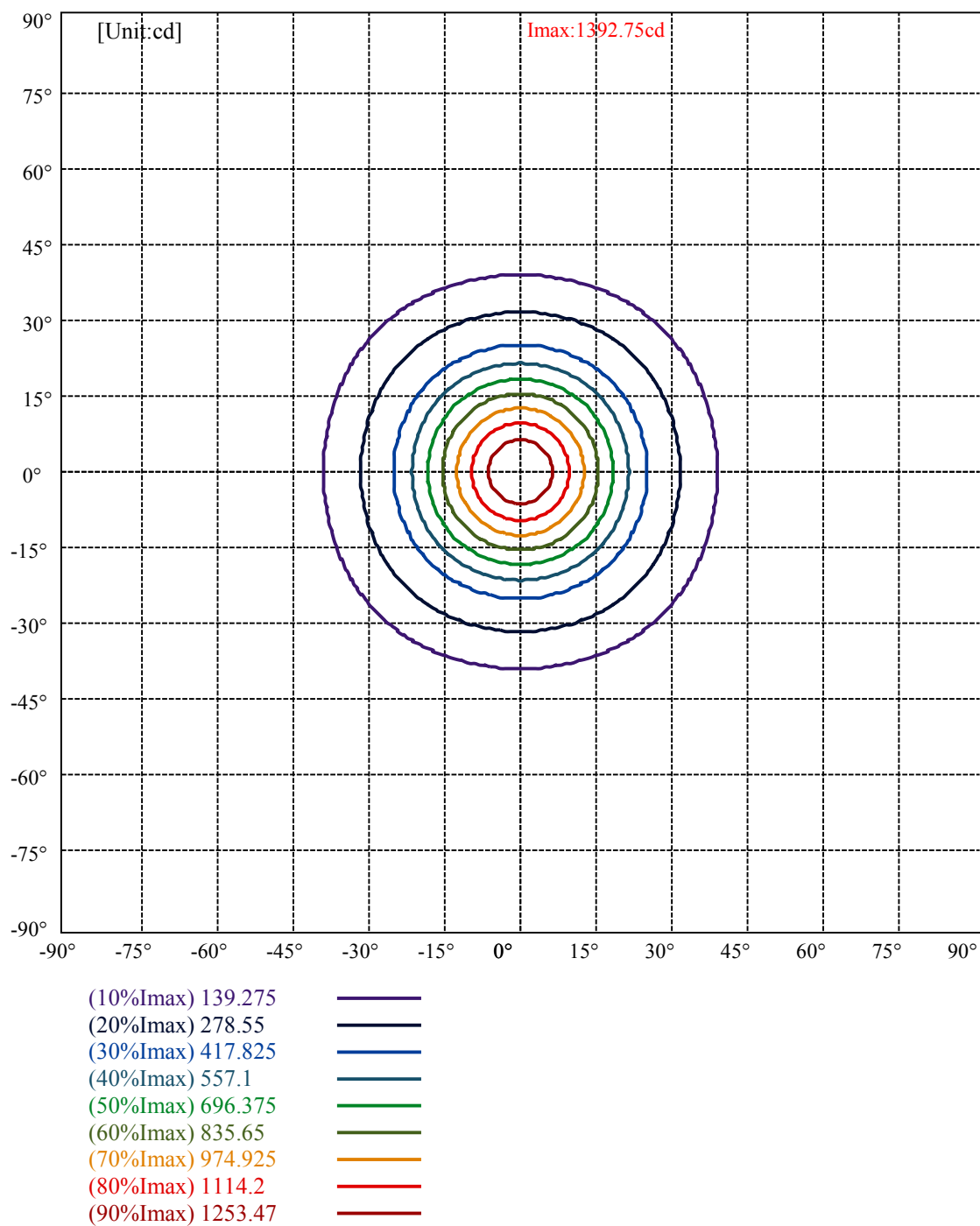
Zone	Lumens	%Lamp	%Fixt
0-30	549.61	64.65%	74.43%
0-40	678.97	79.86%	91.95%
0-60	723.74	85.13%	98.01%
0-90	736.53	86.63%	99.74%
0-120	736.53	86.63%	99.74%
0-180	738.42	86.86%	100.00%
60-90	16.28	1.91%	2.20%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-32.72	590.74	69.48%	80.00%

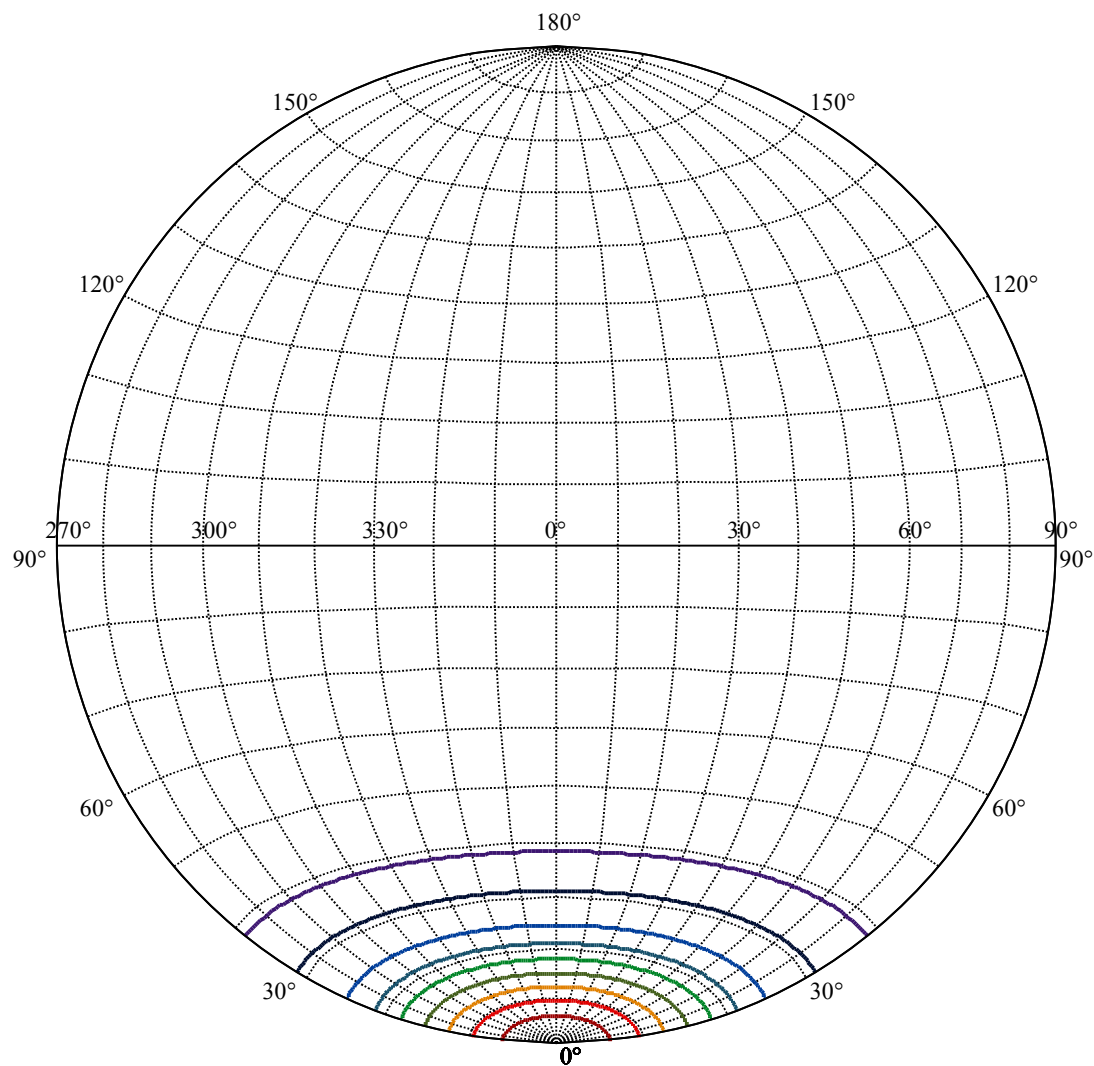
ZONAL LUMEN SUMMARY

0-10	118.13
10-20	235.06
20-30	196.43
30-40	129.35
40-50	35.79
50-60	8.98
60-70	5.77
70-80	4.88
80-90	2.14
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







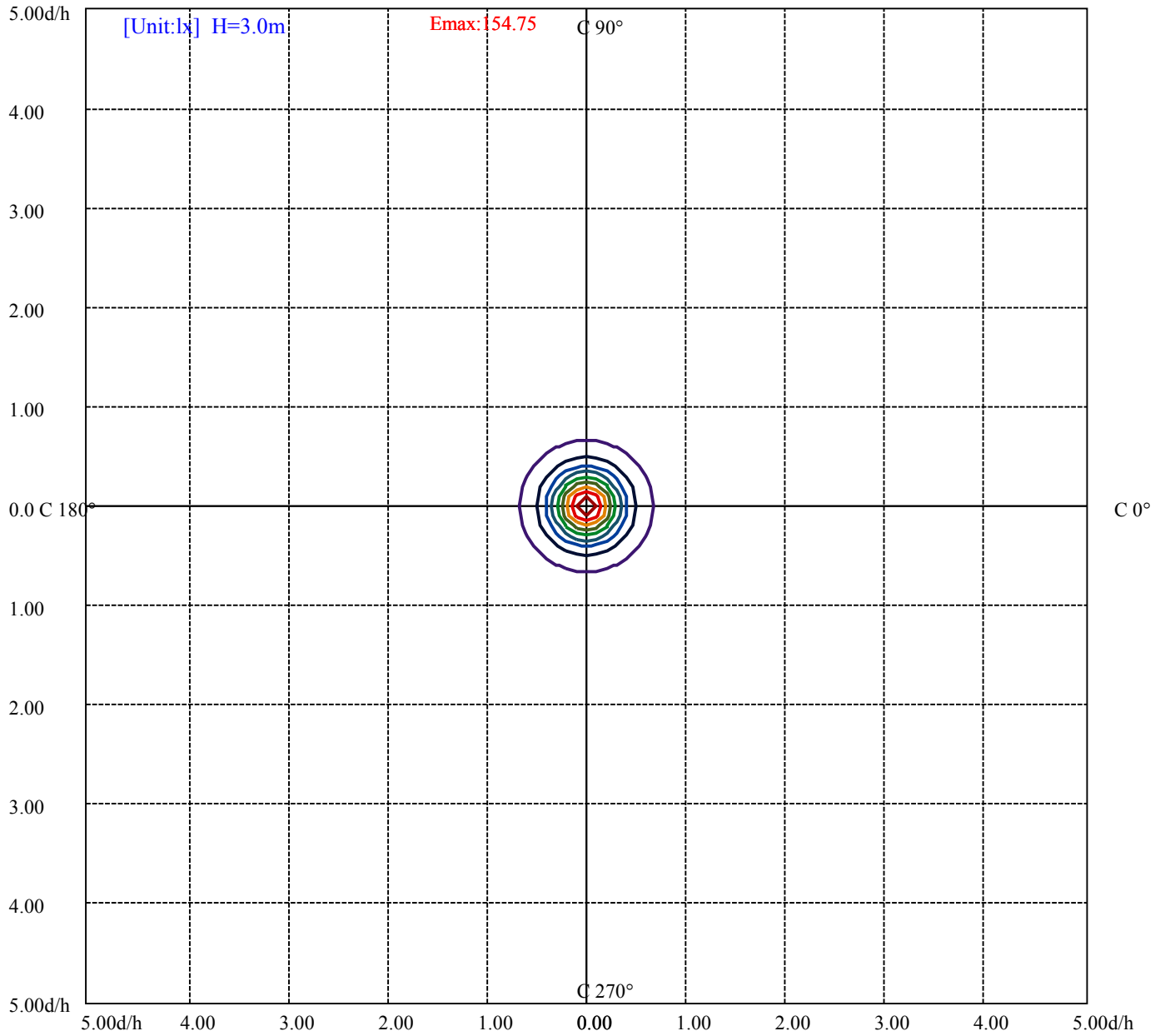


House

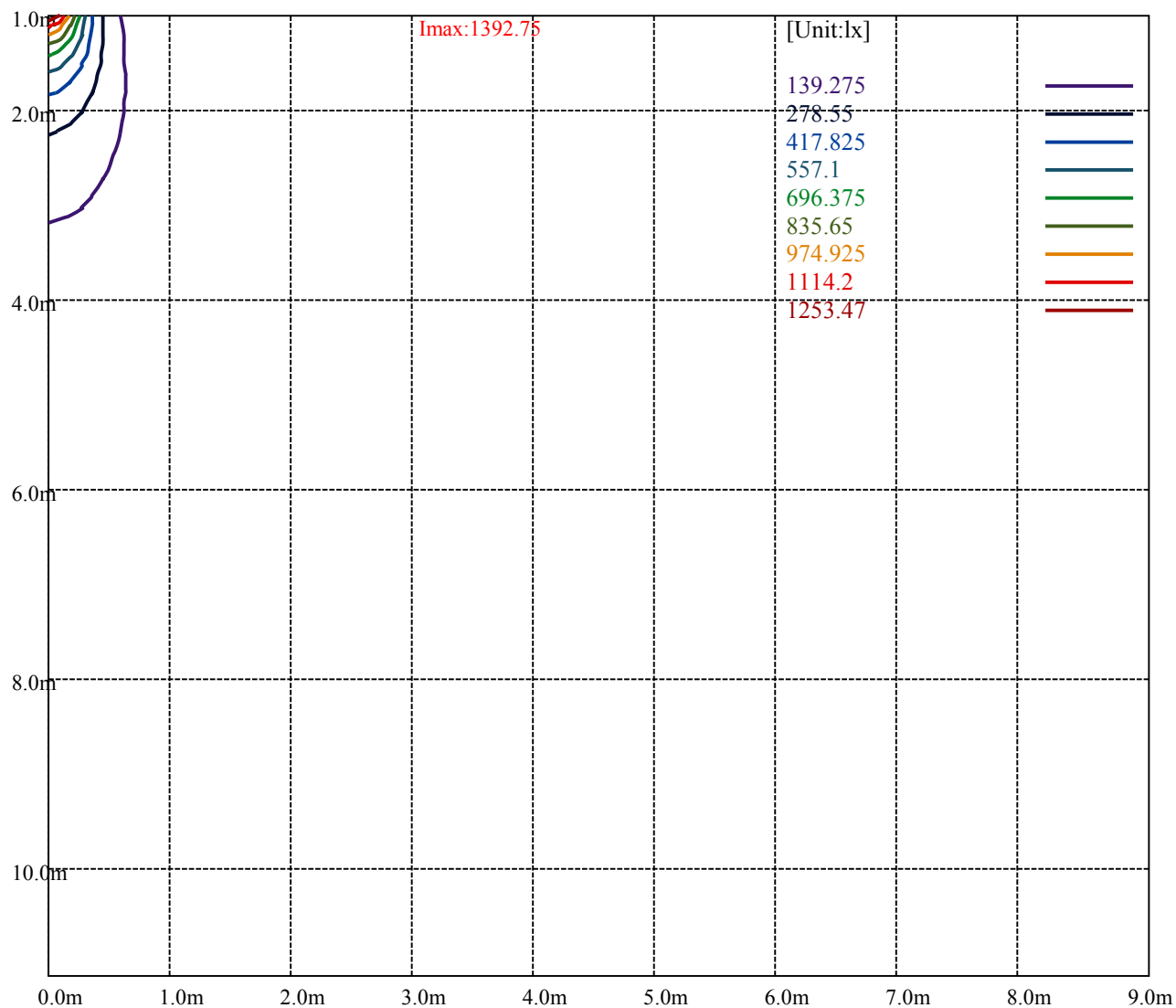
[Unit:cd]

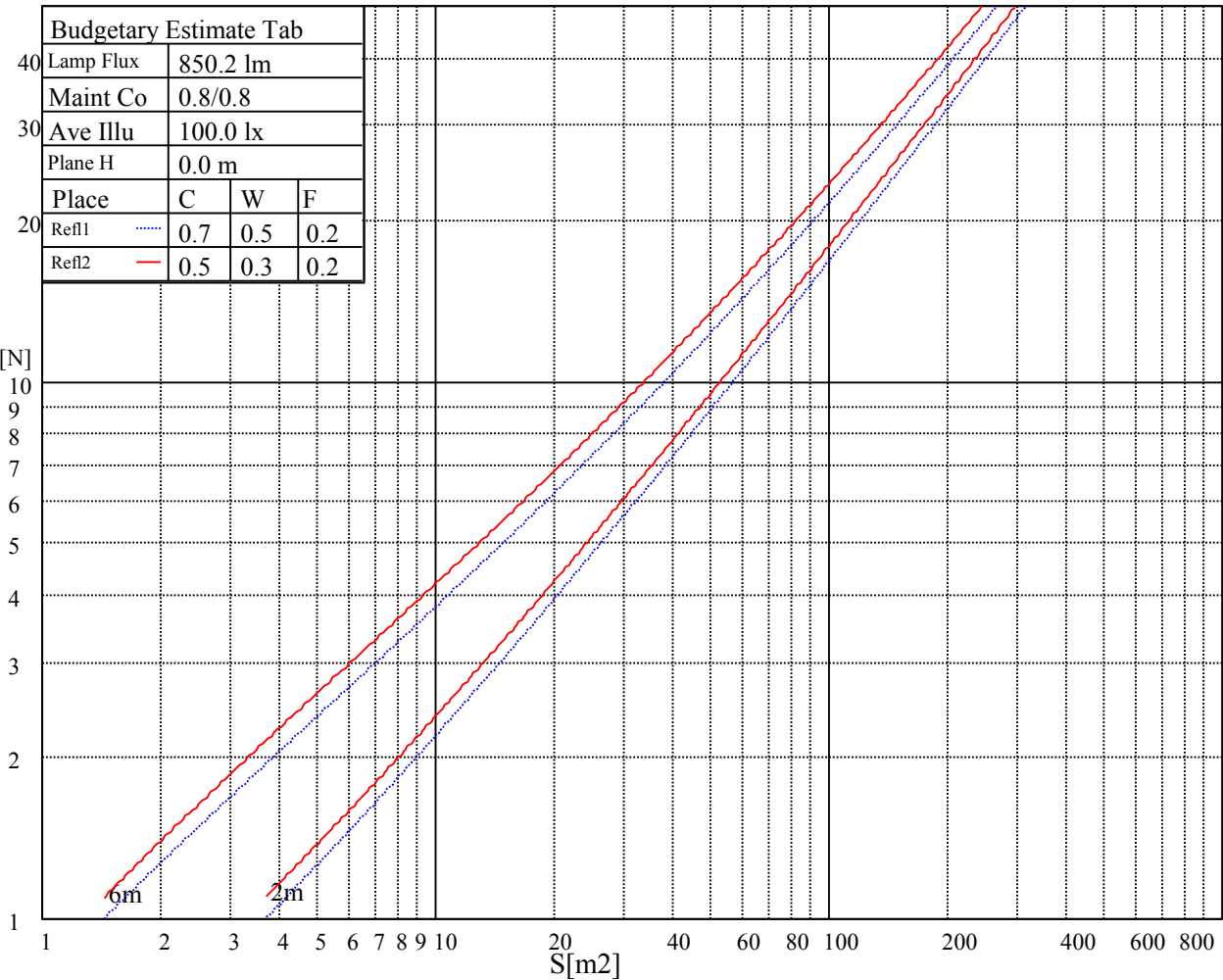
Road

Imax:1392.75	
(10%Imax) 139.275	—
(20%Imax) 278.55	—
(30%Imax) 417.825	—
(40%Imax) 557.1	—
(50%Imax) 696.375	—
(60%Imax) 835.65	—
(70%Imax) 974.925	—
(80%Imax) 1114.2	—
(90%Imax) 1253.47	—

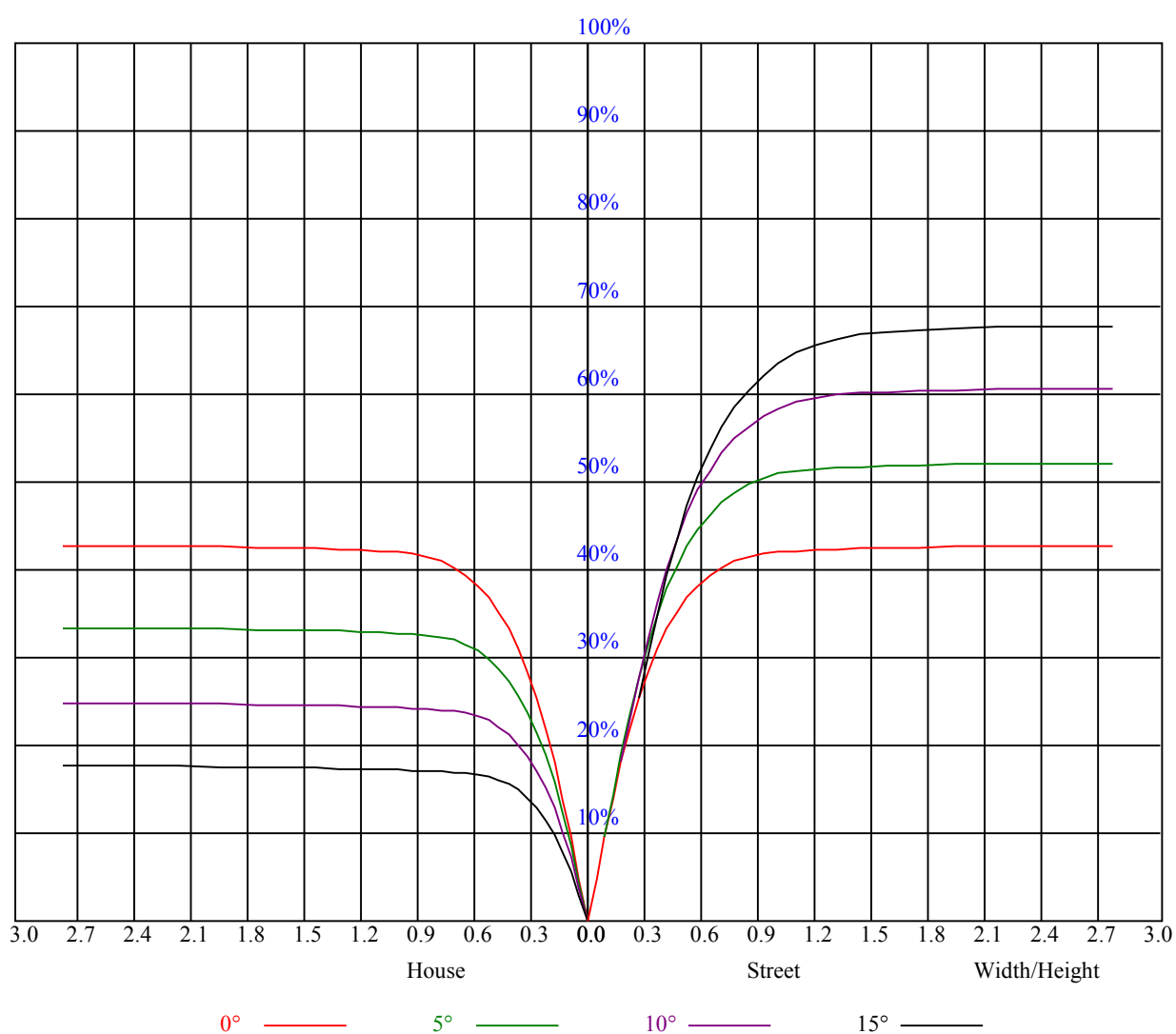


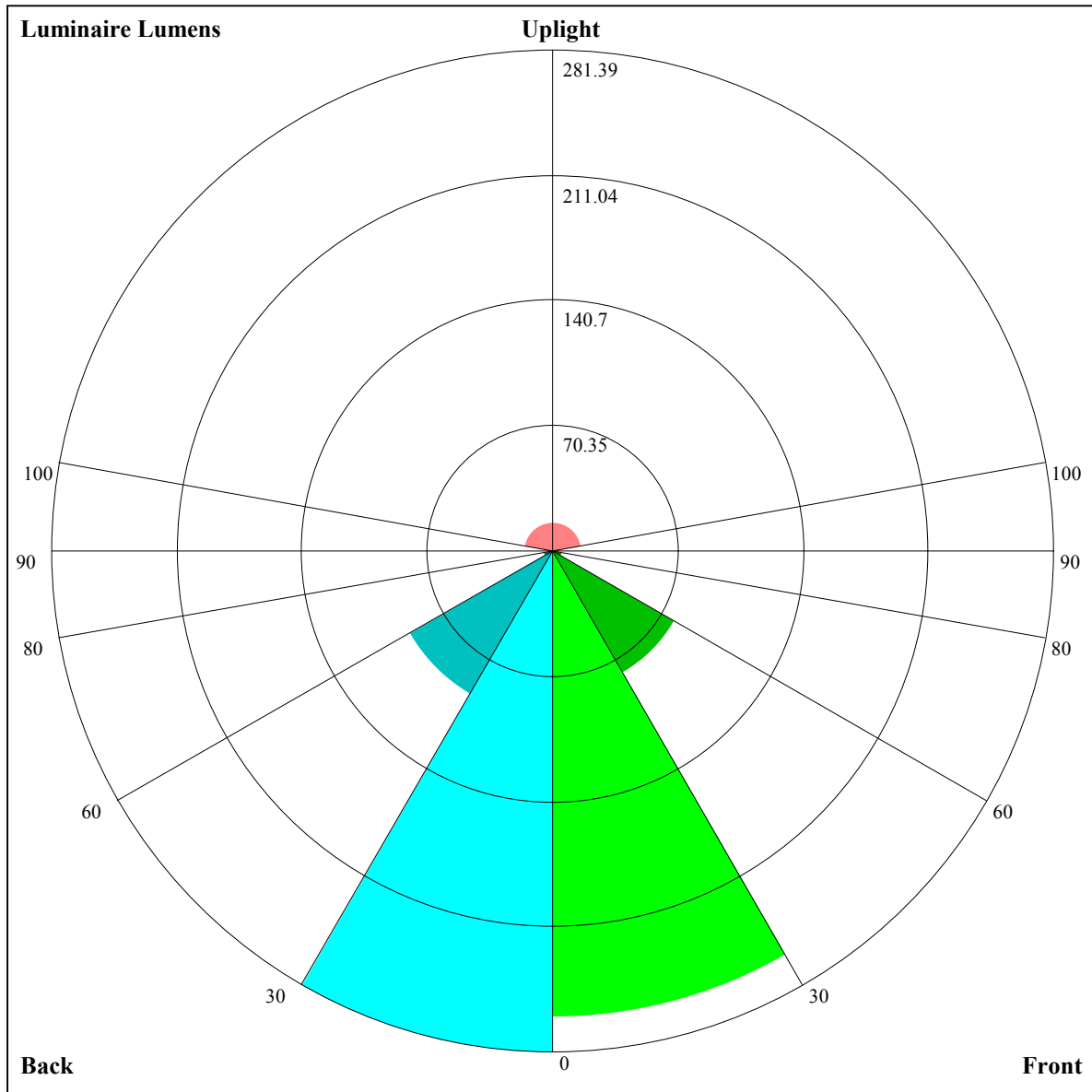
(10%Emax) 15.475	—
(20%Emax) 30.94989	—
(30%Emax) 46.42489	—
(40%Emax) 61.89989	—
(50%Emax) 77.37489	—
(60%Emax) 92.84978	—
(70%Emax) 108.3248	—
(80%Emax) 123.8	—
(90%Emax) 139.2744	—





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	1.03	1.03	1.03	1.01	1.01	1.01	0.97	0.97	0.97	0.92	0.92	0.92	0.89	0.89	0.89	0.87
1	0.96	0.94	0.92	0.94	0.92	0.91	0.91	0.89	0.88	0.88	0.86	0.85	0.85	0.84	0.83	0.81
2	0.90	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.77	0.76
3	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.77	0.75	0.78	0.76	0.74	0.77	0.74	0.72	0.71
4	0.79	0.74	0.71	0.78	0.74	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.73	0.70	0.68	0.67
5	0.74	0.70	0.66	0.74	0.69	0.66	0.72	0.68	0.65	0.71	0.67	0.65	0.69	0.66	0.64	0.63
6	0.70	0.65	0.62	0.70	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.59
7	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56
8	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.53
9	0.60	0.55	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.51	0.50
10	0.57	0.53	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.49	0.48





Luminaire Lumens:

FL=262.45,FM=78.67,FH=5.26,FVH=1.99

BL=281.39,BM=93,BH=5.4,BVH=2.05

UL=3.44,UH=16.36

BUG Rating:B1-U2-G0

NATA 1535-E

Intensity data(cd)										Appendix Page: 15 Total:15	
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0		
0.0	1400.06	1274.06	1056.38	829.69	558.00	383.63	286.88	187.43	86.01		
45.0	1393.31	1306.13	1116.56	853.88	620.44	420.19	315.00	221.74	115.37		
90.0	1395.56	1321.88	1103.29	854.44	608.74	403.59	296.83	212.46	115.93		
135.0	1382.06	1371.94	1197.56	945.00	704.81	476.44	334.13	286.88	152.89		
180.0	1400.06	1344.94	1110.77	895.05	656.78	446.01	326.93	240.92	140.34		
225.0	1393.31	1303.31	1093.44	846.34	609.19	414.34	319.61	214.09	106.37		
270.0	1395.56	1283.06	1098.00	826.31	583.31	397.69	291.38	188.61	92.81		
315.0	1382.06	1232.44	992.59	731.93	500.06	335.19	241.09	149.23	61.03		
360.0	1400.06	1274.06	1056.38	829.69	558.00	383.63	286.88	187.43	86.01		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	22.89	19.01	8.04	6.58	5.51	4.78	4.39	4.05	3.66		
45.0	31.22	18.90	7.93	6.58	5.40	4.61	4.11	3.77	3.49		
90.0	36.84	18.73	7.93	6.47	5.34	4.67	4.16	3.83	3.54		
135.0	54.45	20.76	9.17	7.09	5.85	5.18	4.61	4.16	3.71		
180.0	40.28	16.93	8.21	6.86	5.79	5.06	4.56	4.22	3.77		
225.0	22.84	13.73	8.10	6.86	5.96	5.29	4.78	4.39	3.88		
270.0	23.40	14.29	8.72	7.26	6.19	5.46	5.06	4.61	4.11		
315.0	20.19	13.73	8.10	6.69	5.79	5.18	5.40	4.22	3.71		
360.0	22.89	19.01	8.04	6.58	5.51	4.78	4.39	4.05	3.66		
C/γ(°)	90.0										
0.0	3.09										
45.0	3.09										
90.0	3.15										
135.0	3.15										
180.0	3.21										
225.0	3.26										
270.0	3.15										
315.0	3.09										
360.0	3.09										