

Report No.:

Test Time: 2024/10/15 10:43:59

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP155CT085H99-15°-15W
Lamp Type:
Luminous Width: 65 mm
Luminous Length: 65 mm
Luminous Height: 80 mm

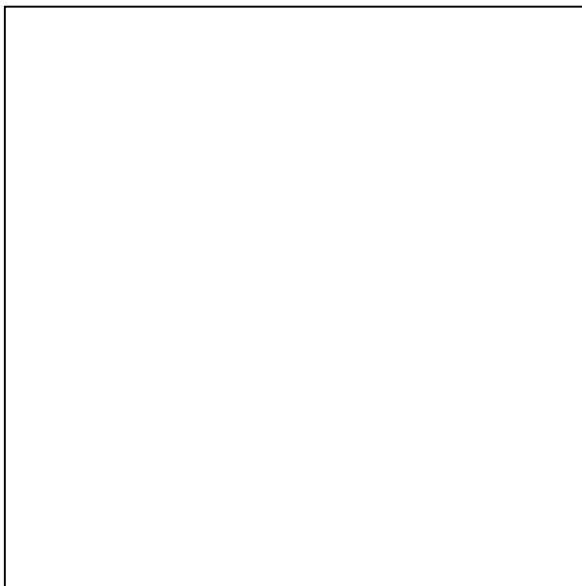
Voltage(V): 219.70 V
Current(A): 0.0720 A
Power(W): 15.25 W
Power Factor: 0.9530
Lamp Luminous Flux: 1280.38

Photometric Results

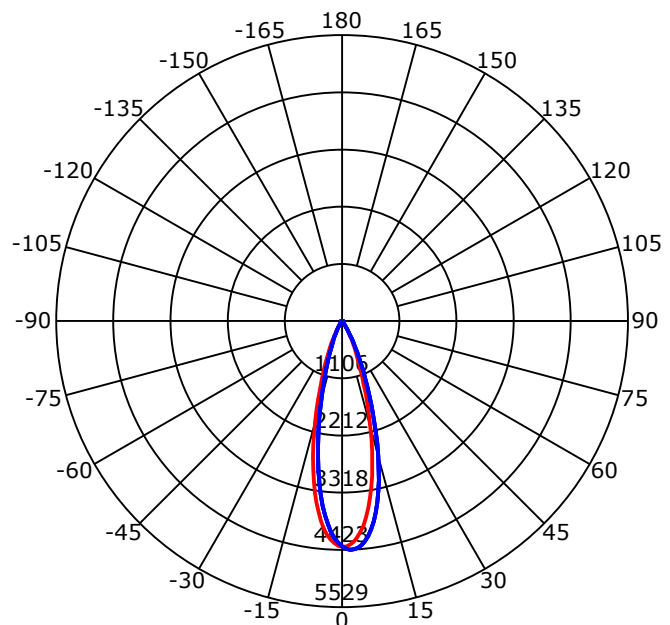
CIE Class: Direct
Luminaire Luminous Flux: 1280.378 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 83.96 lm/W
Beam Angle(50%) C0-180,C90-270: 29.0,29.0
Field Angle(10%) C0-180,C90-270: 52.7,52.0
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 4423.40 cd
Max.Intensity Angle: C=90 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4363.25 cd
Effective Luminous Flux: 1117.18 lm
ERP(ϕ use)(120deg): 1266.31 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 29.0 deg,29.0 deg

C0-180 — C90-270 —

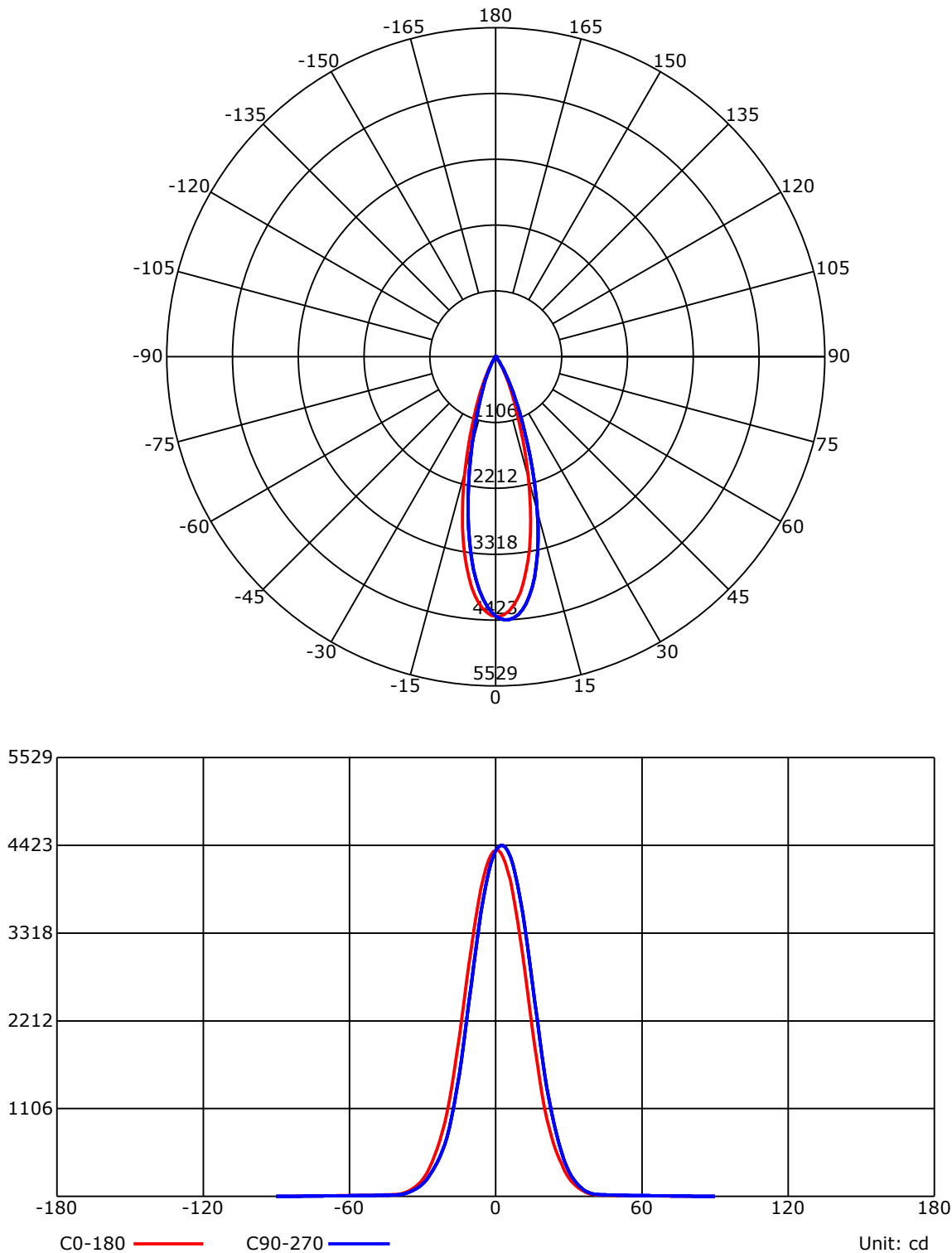
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/15 10:43:59

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



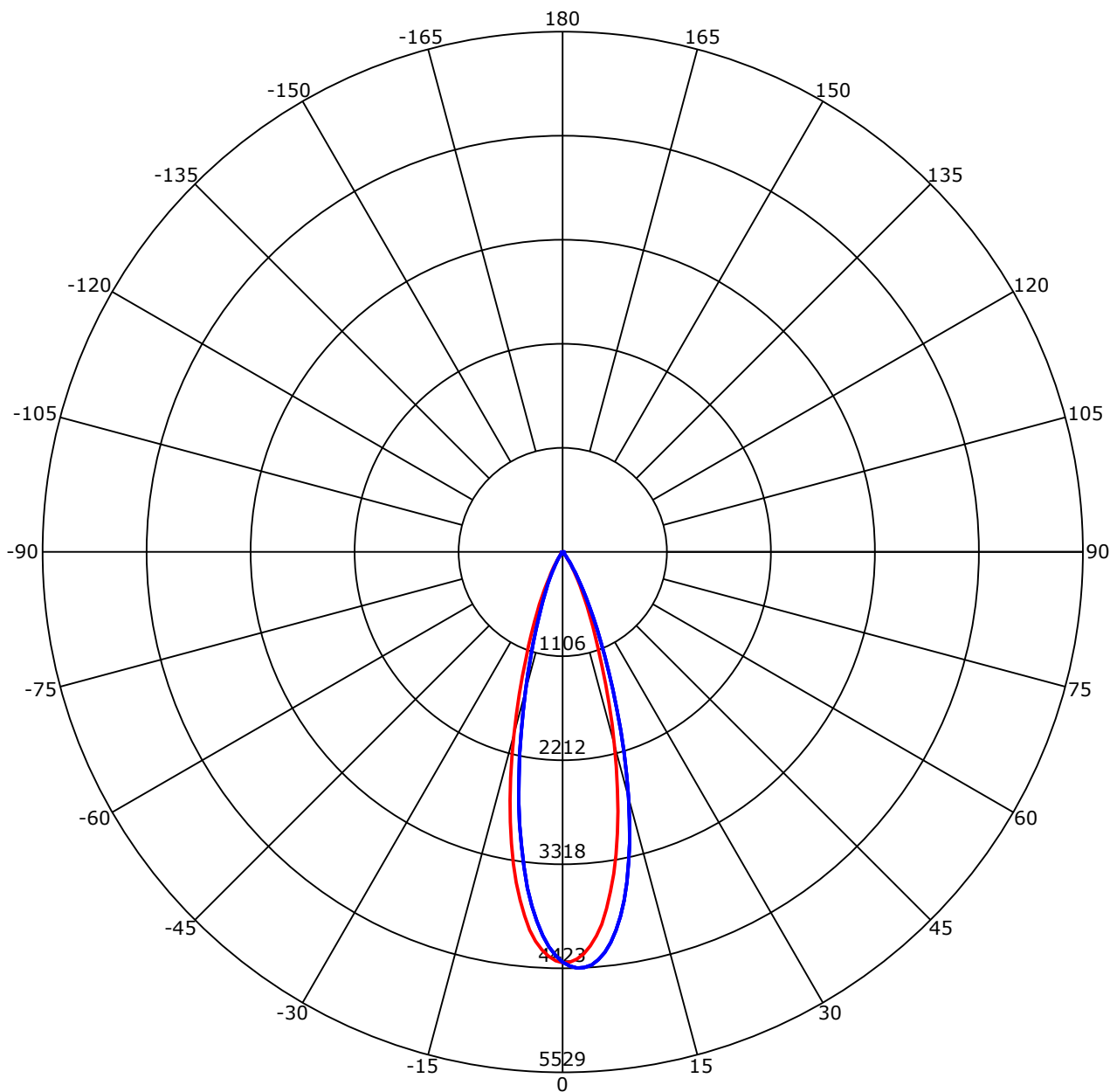
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

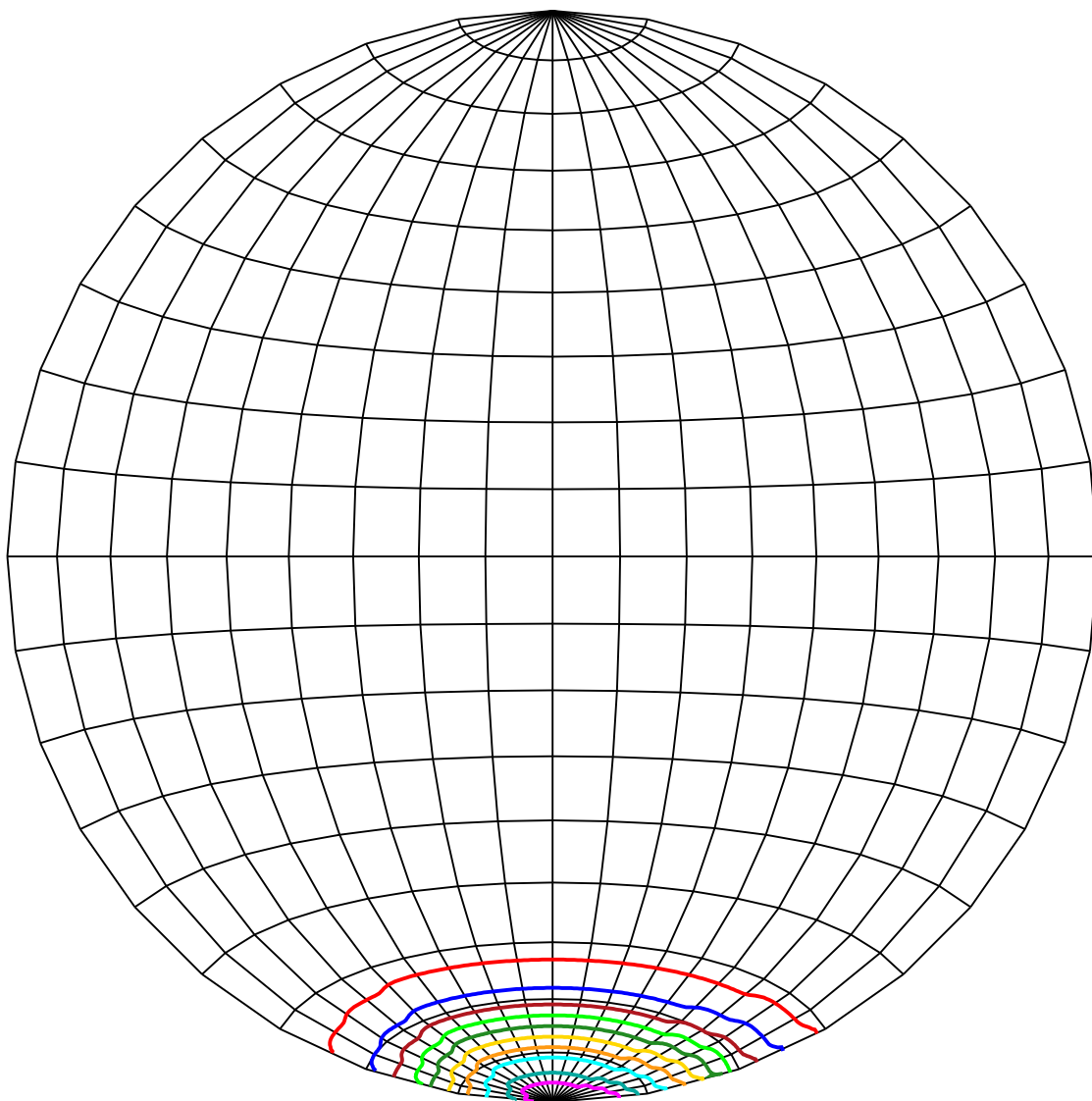
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 4423.398 cd

4202.229(95%I _{max})	2211.699(50%I _{max})
3981.059(90%I _{max})	1769.359(40%I _{max})
3538.719(80%I _{max})	1327.02(30%I _{max})
3096.379(70%I _{max})	884.68(20%I _{max})
2654.039(60%I _{max})	442.34(10%I _{max})

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

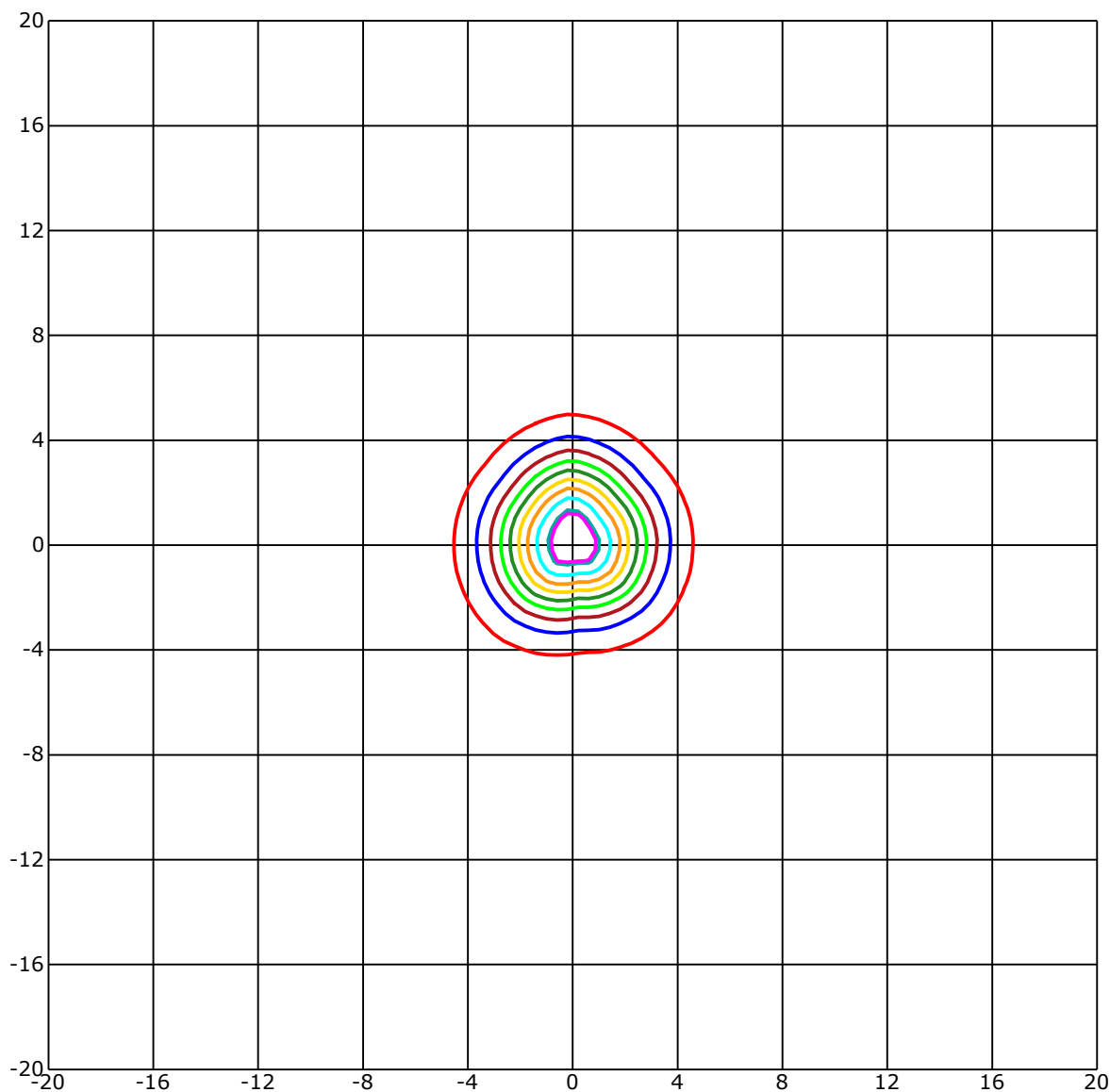
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ISOLX DIAGRAM



Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

40.621(92%Emax)	22.077(50%Emax)
39.738(90%Emax)	17.661(40%Emax)
35.323(80%Emax)	13.246(30%Emax)
30.907(70%Emax)	8.831(20%Emax)
26.492(60%Emax)	4.415(10%Emax)

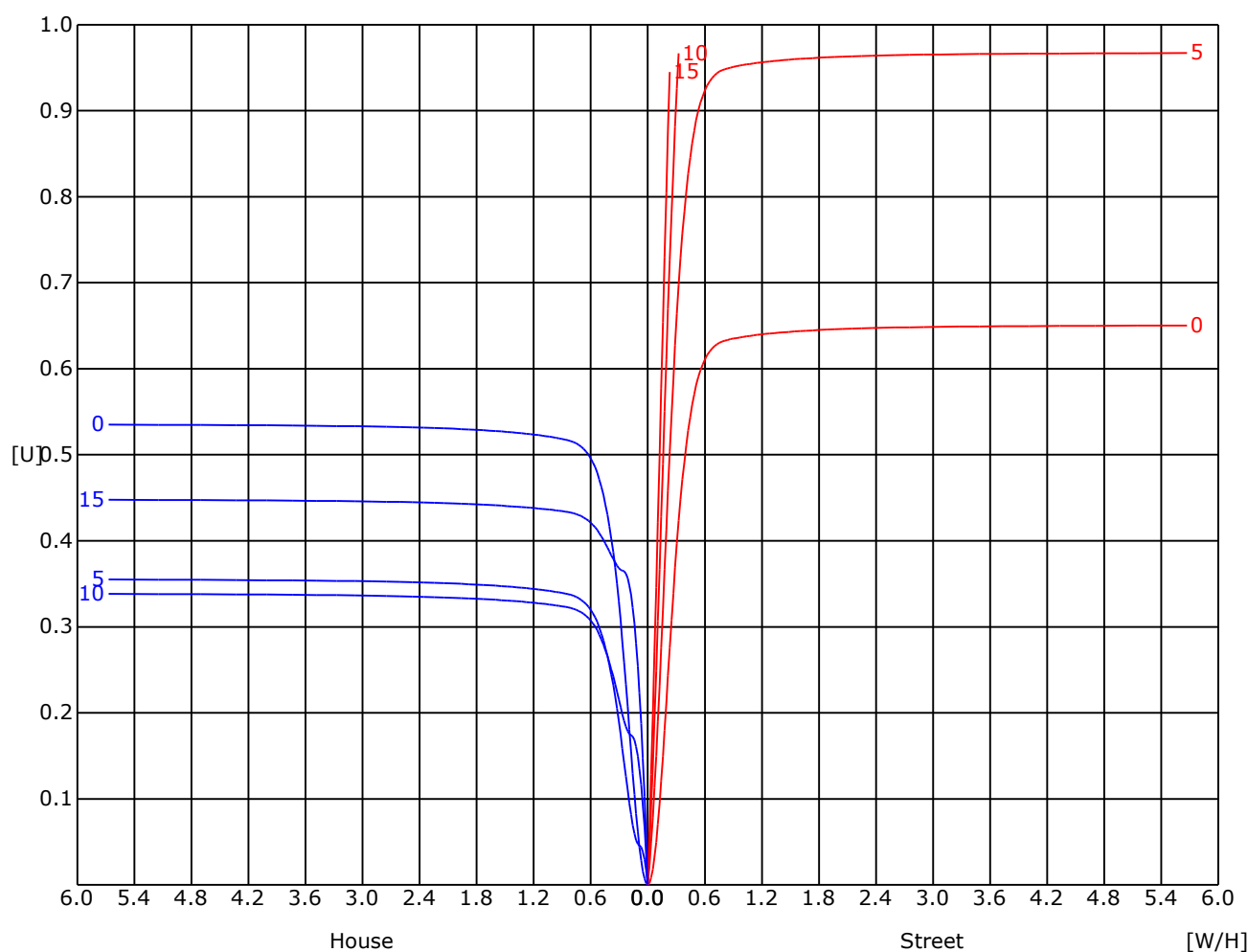
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UTILIZATION FACTOR DIAGRAM (ROAD)



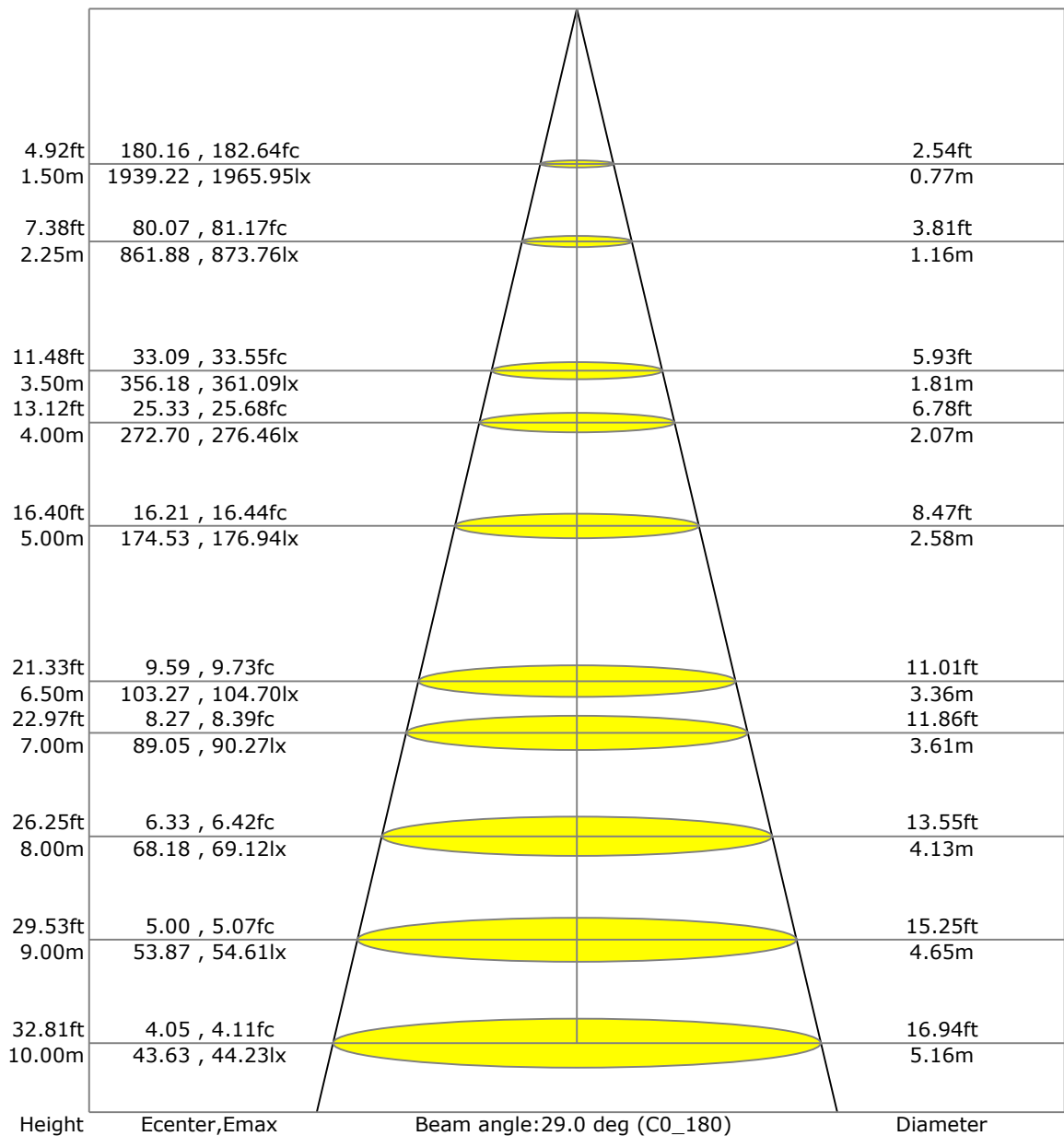
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.81 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

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UGR(Unified Glare Rating) TABLE

RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		50	30	50	30	30	50	30	50	30	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H	2H	4.16	4.21	4.36	4.40	4.64	4.42	4.47	4.62	4.66	4.90
	3H	4.23	4.28	4.43	4.48	4.72	4.47	4.52	4.67	4.71	4.96
	4H	4.23	4.29	4.44	4.49	4.74	4.47	4.52	4.68	4.72	4.97
	6H	4.22	4.28	4.44	4.48	4.73	4.45	4.51	4.67	4.71	4.96
	8H	4.22	4.27	4.43	4.48	4.73	4.45	4.50	4.67	4.71	4.96
	12H	4.21	4.27	4.43	4.47	4.73	4.44	4.50	4.66	4.70	4.96
4H	2H	5.25	5.31	5.46	5.50	5.75	5.76	5.82	5.97	6.02	6.27
	3H	5.38	5.44	5.61	5.65	5.90	5.88	5.93	6.10	6.14	6.39
	4H	5.40	5.46	5.63	5.68	5.93	5.88	5.94	6.11	6.16	6.41
	6H	5.40	5.46	5.64	5.68	5.94	5.87	5.93	6.11	6.15	6.42
	8H	5.39	5.45	5.63	5.67	5.94	5.86	5.92	6.10	6.14	6.41
	12H	5.38	5.43	5.63	5.67	5.94	5.85	5.91	6.10	6.14	6.41
8H	4H	5.45	5.51	5.67	5.72	5.97	6.10	6.16	6.32	6.36	6.62
	6H	5.63	5.68	5.88	5.92	6.20	6.27	6.32	6.52	6.56	6.84
	8H	5.62	5.67	5.88	5.92	6.19	6.25	6.31	6.52	6.55	6.83
	12H	5.60	5.65	5.87	5.91	6.19	6.24	6.29	6.51	6.54	6.83
12H	4H	5.64	5.70	5.89	5.93	6.20	6.36	6.42	6.61	6.65	6.92
	6H	5.63	5.68	5.89	5.93	6.21	6.35	6.40	6.61	6.65	6.93

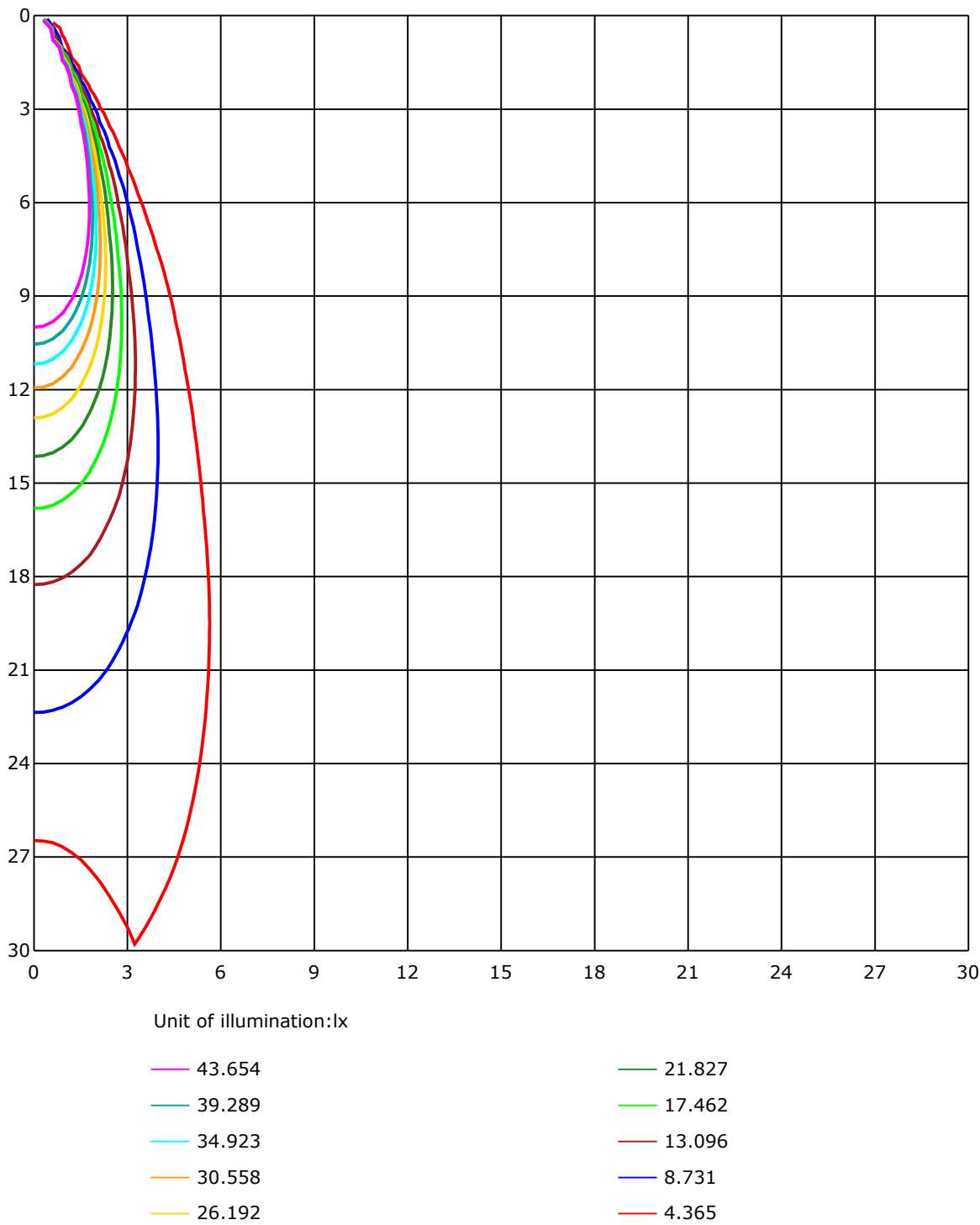
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Humidity: 60
Test Distance: 6.81 m
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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4363.25	4367.15	4358.1	4394.14	4363.25	4367.15	4358.1	4394.14	4363.25	
G1	4359.31	4357.41	4401.37	4387.46	4344.19	4349.38	4287.93	4378.41	4359.31	
G2	4328.79	4329.49	4423.4	4357.96	4298.42	4312.65	4196.81	4339.5	4328.79	
G3	4274.44	4277.27	4419.83	4302.96	4233.44	4244.29	4080.12	4275.18	4274.44	
G4	4195.0	4201.54	4396.92	4217.44	4144.31	4161.56	3934.92	4190.5	4195.0	
G5	4093.02	4095.57	4348.73	4112.12	4030.78	4046.92	3774.09	4075.16	4093.02	
G6	3977.45	3970.49	4276.39	3984.73	3887.25	3913.73	3589.23	3938.03	3977.45	
G7	3817.26	3821.11	4181.46	3839.01	3725.25	3758.18	3372.7	3775.76	3817.26	
G8	3643.72	3649.34	4059.86	3671.83	3544.99	3576.99	3151.58	3590.39	3643.72	
G9	3462.81	3465.18	3920.13	3476.63	3357.63	3378.36	2927.21	3401.5	3462.81	
G10	3266.5	3266.41	3759.94	3270.68	3143.37	3166.51	2686.8	3196.06	3266.5	
G11	3043.99	3063.23	3573.0	3050.48	2921.74	2943.21	2444.02	2970.34	3043.99	
G12	2817.44	2832.75	3371.77	2824.3	2698.53	2711.84	2204.07	2743.7	2817.44	
G13	2586.95	2603.83	3158.72	2581.57	2461.23	2482.56	1966.72	2514.79	2586.95	
G14	2350.85	2363.74	2932.27	2344.03	2232.59	2249.94	1739.8	2285.83	2350.85	
G15	2119.67	2129.73	2703.5	2109.14	2006.05	2023.3	1532.36	2053.35	2119.67	
G16	1898.45	1899.61	2465.86	1882.27	1788.96	1804.03	1340.78	1827.68	1898.45	
G17	1683.22	1680.39	2229.11	1665.55	1580.82	1600.63	1165.15	1613.38	1683.22	
G18	1475.32	1471.61	1993.11	1465.81	1387.48	1403.39	1013.18	1416.79	1475.32	
G19	1283.83	1292.41	1767.12	1278.13	1213.2	1226.28	869.92	1233.56	1283.83	
G20	1118.08	1124.02	1556.8	1112.93	1060.81	1063.96	749.81	1072.35	1118.08	
G21	977.05	976.73	1364.76	966.43	922.93	925.2	651.86	930.95	977.05	
G22	850.86	847.38	1193.26	836.95	803.93	802.91	566.67	807.59	850.86	
G23	735.76	735.85	1041.24	724.44	696.85	696.57	493.67	701.21	735.76	
G24	636.56	632.99	902.25	621.76	606.41	608.08	430.05	608.87	636.56	
G25	552.94	539.17	779.26	526.55	524.7	529.2	375.14	530.13	552.94	
G26	480.22	450.4	664.06	435.1	445.86	463.39	323.33	464.13	480.22	
G27	407.41	370.68	552.43	356.4	371.38	403.52	271.72	404.21	407.41	
G28	336.51	305.62	456.76	292.96	309.93	341.47	224.27	346.06	336.51	
G29	278.58	252.01	381.3	241.39	259.2	284.56	187.96	289.39	278.58	
G30	232.11	207.63	316.66	198.03	215.79	237.91	156.7	241.67	232.11	
G31	191.39	168.07	259.94	160.23	179.15	200.3	130.04	202.25	191.39	
G32	157.63	134.63	212.03	130.32	148.4	167.84	108.61	169.55	157.63	
G33	129.44	106.76	171.64	103.28	122.9	141.73	90.48	142.37	129.44	
G34	105.69	82.13	138.85	80.74	101.52	117.84	74.67	120.39	105.69	
G35	85.42	62.47	109.96	62.79	81.67	97.9	60.61	100.78	85.42	
G36	67.2	45.54	85.1	46.79	65.25	80.65	47.67	82.55	67.2	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	51.89	32.97	65.34	33.72	51.62	66.04	36.92	67.48	51.89	
G38	39.28	24.07	50.23	24.53	40.44	53.01	28.57	54.86	39.28	
G39	29.31	18.83	38.4	18.78	32.56	41.97	23.19	43.69	29.31	
G40	22.63	16.19	30.61	16.09	27.92	34.36	19.57	35.85	22.63	
G41	18.69	14.56	26.62	14.65	25.41	29.5	18.13	30.38	18.69	
G42	16.74	13.5	23.93	13.73	23.84	26.53	16.88	27.13	16.74	
G43	15.49	13.08	22.26	12.89	22.35	24.72	16.05	25.18	15.49	
G44	14.75	12.38	20.96	12.43	21.1	23.37	15.44	23.84	14.75	
G45	14.19	12.01	19.85	11.69	20.27	22.54	15.03	22.63	14.19	
G46	13.68	11.27	18.88	11.27	19.43	21.43	14.38	21.8	13.68	
G47	12.99	10.81	17.99	10.62	18.41	20.54	13.82	20.87	12.99	
G48	12.43	10.16	17.11	10.2	17.76	19.66	13.31	19.99	12.43	
G49	11.92	9.92	16.23	9.79	16.83	18.78	12.8	19.01	11.92	
G50	11.41	9.41	15.44	9.32	16.23	18.04	12.29	18.6	11.41	
G51	10.94	8.95	14.65	9.04	15.35	17.53	11.78	17.72	10.94	
G52	10.67	8.67	14.05	8.63	14.79	16.56	11.41	17.21	10.67	
G53	10.25	8.49	13.5	8.16	14.24	16.0	11.18	16.37	10.25	
G54	9.88	8.02	13.03	7.93	13.96	15.44	10.85	15.86	9.88	
G55	9.6	7.84	12.43	7.56	13.31	14.98	10.71	15.35	9.6	
G56	9.32	7.61	11.97	7.42	12.85	14.47	10.39	14.89	9.32	
G57	9.14	7.37	11.73	7.05	12.48	14.24	10.02	14.47	9.14	
G58	8.86	6.96	11.08	6.91	12.15	13.77	9.74	14.24	8.86	
G59	8.44	6.77	10.62	6.68	11.69	13.26	9.65	13.63	8.44	
G60	8.3	6.63	10.16	6.45	11.41	12.99	9.32	13.22	8.3	
G61	8.12	6.17	9.97	6.26	10.94	12.57	9.04	12.94	8.12	
G62	7.93	6.08	9.65	6.08	10.67	12.06	8.95	12.61	7.93	
G63	7.51	5.84	9.32	5.75	10.2	11.83	8.81	12.2	7.51	
G64	7.33	5.43	9.0	5.43	9.92	11.69	8.35	11.83	7.33	
G65	6.86	5.19	8.58	5.1	9.51	11.13	8.02	11.36	6.86	
G66	6.59	4.92	8.07	4.82	9.23	10.62	7.51	10.9	6.59	
G67	6.21	4.64	7.74	4.54	8.67	10.3	7.37	10.43	6.21	
G68	5.89	4.22	7.28	4.27	8.16	9.79	6.82	9.97	5.89	
G69	5.52	3.94	7.05	3.99	7.84	9.51	6.49	9.41	5.52	
G70	5.19	3.57	6.45	3.66	7.51	9.04	6.12	9.14	5.19	
G71	4.78	3.43	6.17	3.34	6.91	8.53	5.89	8.67	4.78	
G72	4.45	3.06	5.66	3.01	6.54	7.93	5.43	8.25	4.45	
G73	4.13	2.74	5.47	2.6	6.21	7.7	5.15	7.84	4.13	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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