

Report No.:

Test Time: 2024/9/7 17:11:13

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-19.2W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

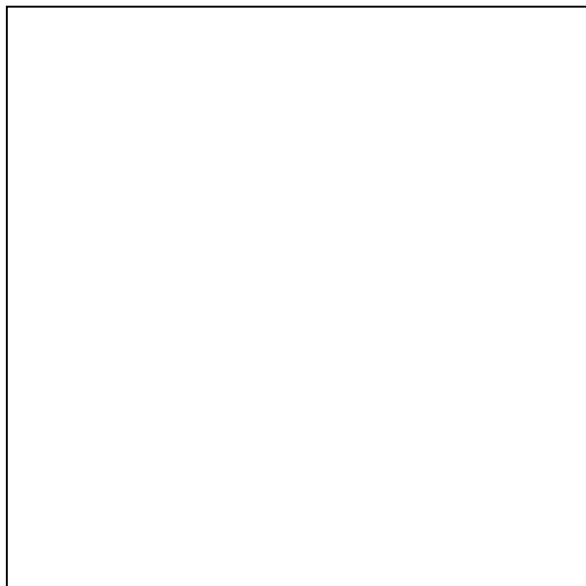
Voltage(V): 219.80 V
Current(A): 0.0920 A
Power(W): 19.15 W
Power Factor: 0.9430
Lamp Luminous Flux: 1866.27

Photometric Results

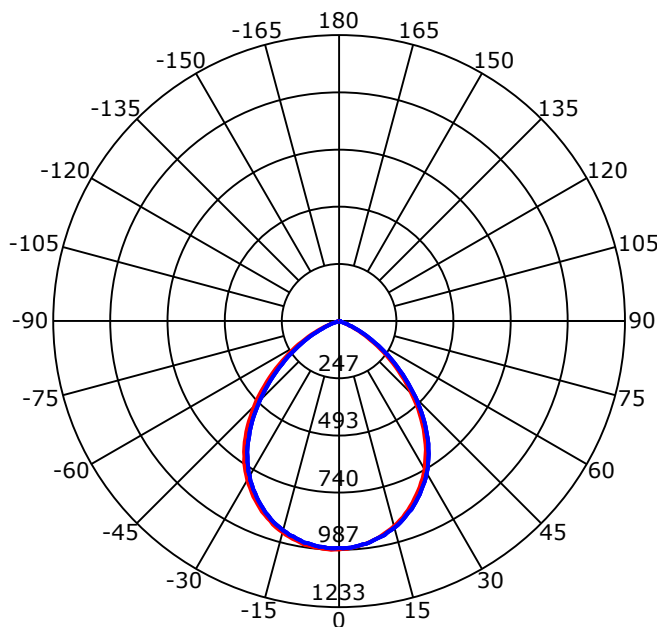
CIE Class: Direct
Luminaire Luminous Flux: 1866.269 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 97.46 lm/W
Beam Angle(50%) C0-180,C90-270: 88.8,88.6
Field Angle(10%) C0-180,C90-270: 128.9,128.8
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 986.74 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 985.86 cd
Effective Luminous Flux: 1821.75 lm
ERP(ϕ use)(120deg): 1761.68 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 88.8 deg,88.6 deg

C0-180 — C90-270 —

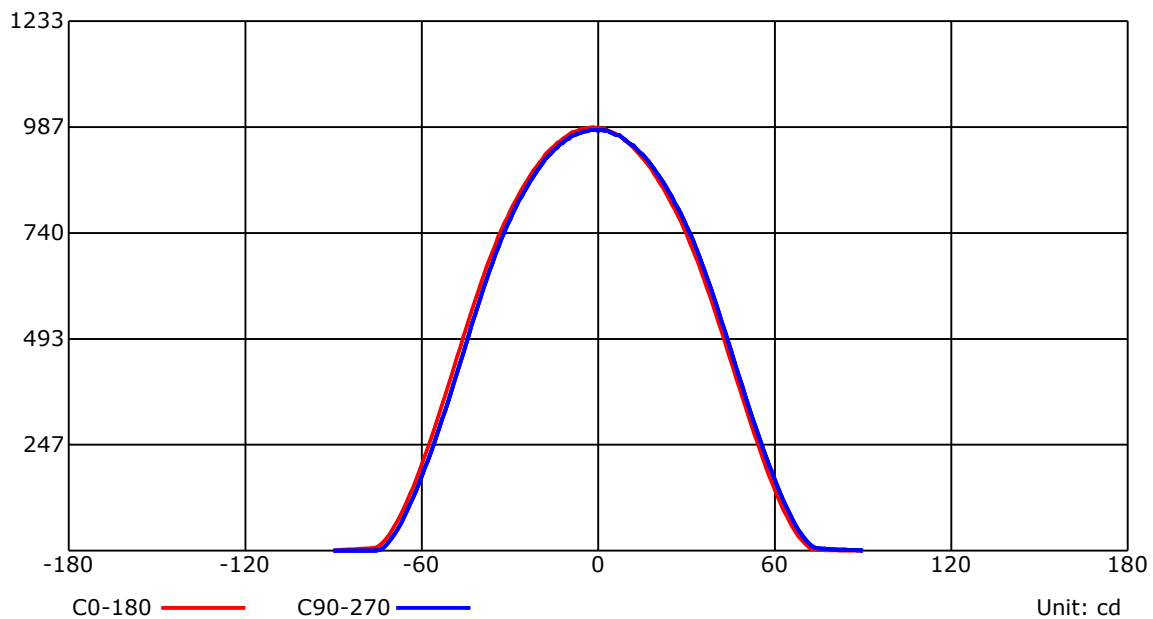
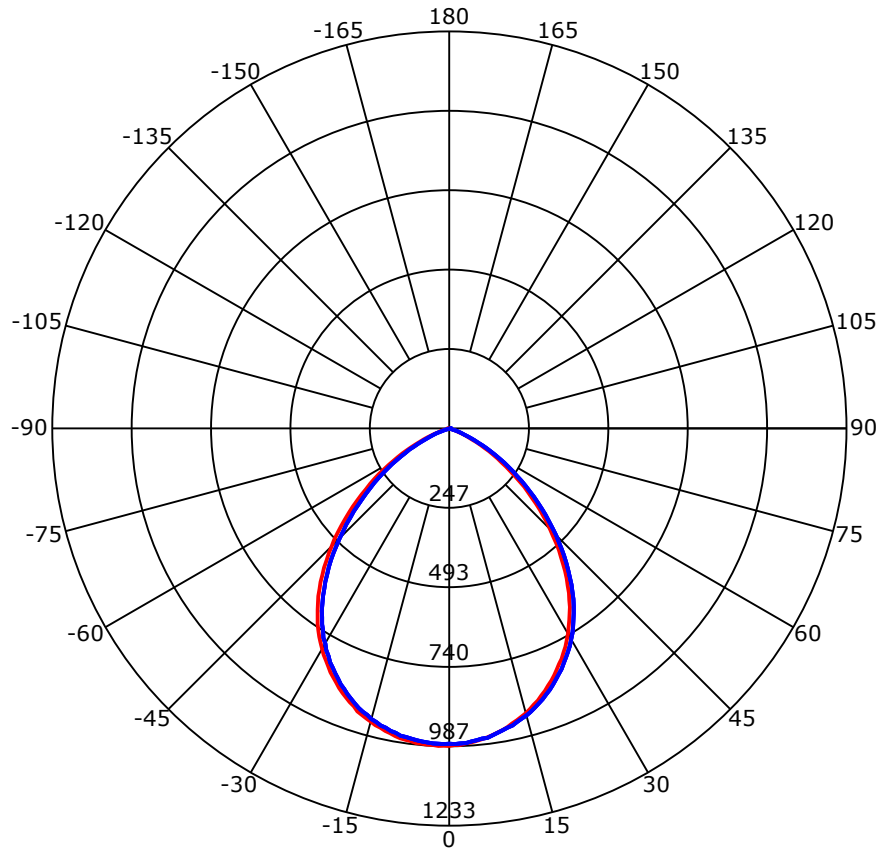
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/7 17:11:13

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



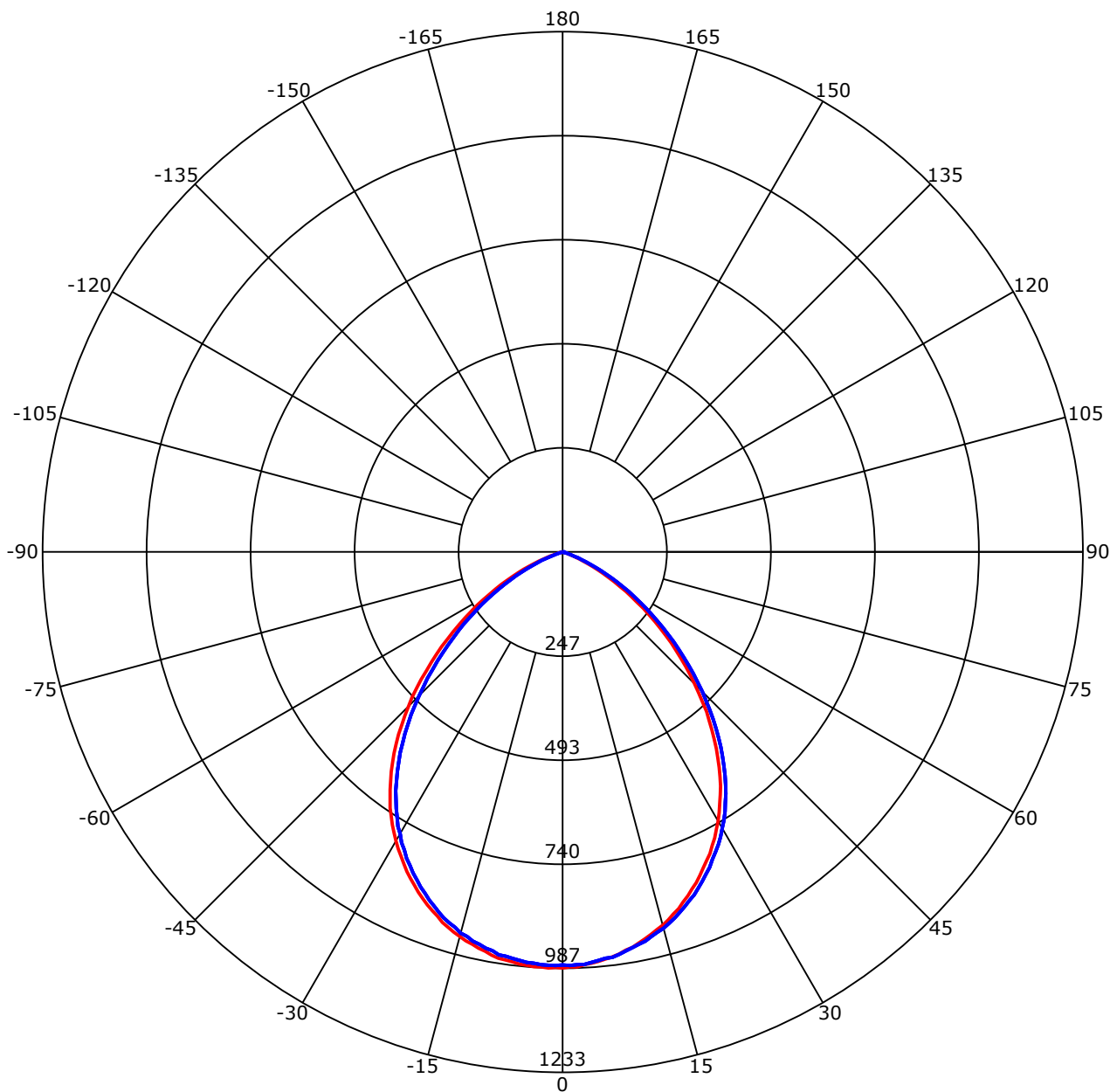
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

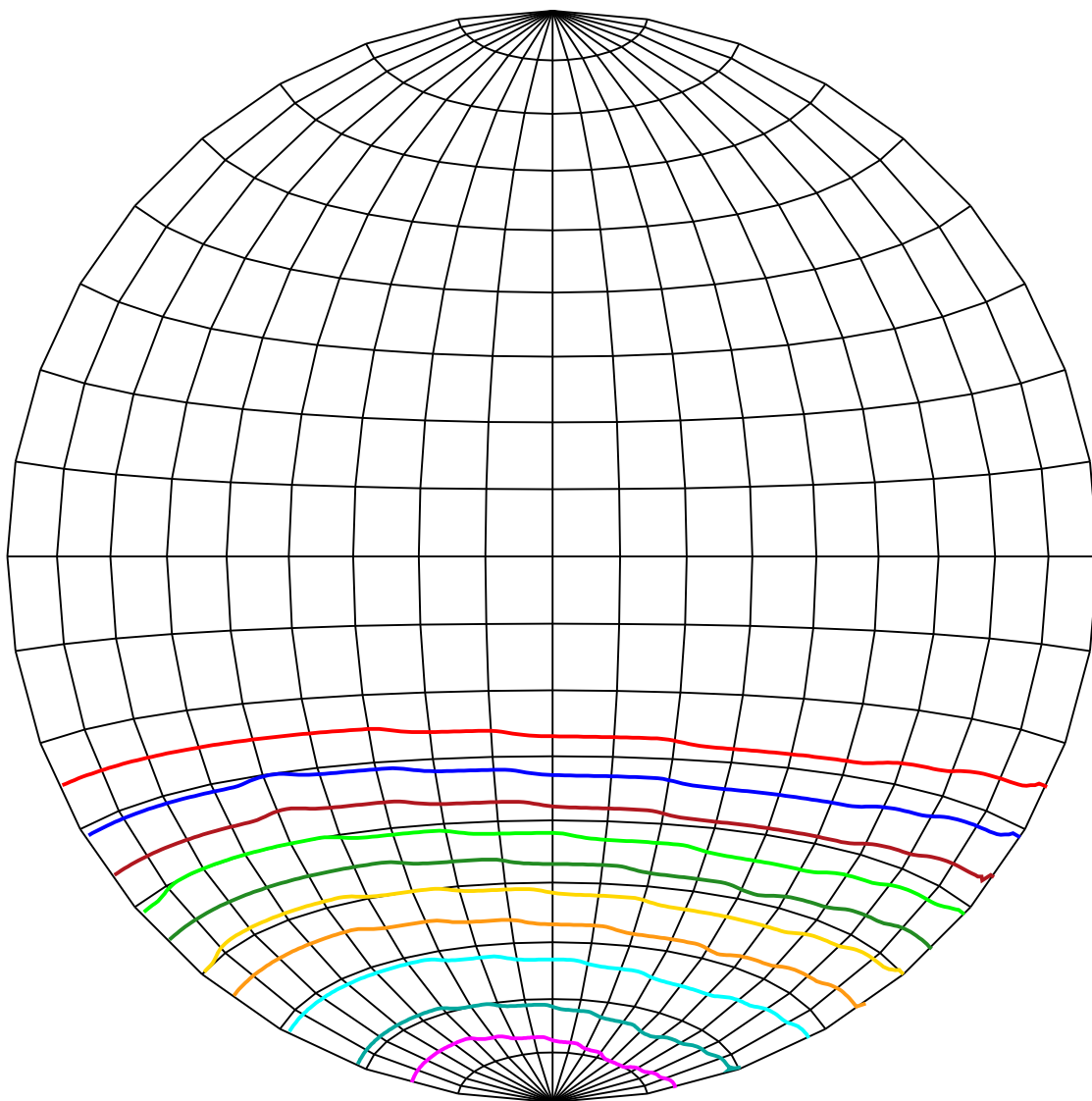
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 986.744 cd

937.407(95%Imax)	493.372(50%Imax)
888.07(90%Imax)	394.698(40%Imax)
789.395(80%Imax)	296.023(30%Imax)
690.721(70%Imax)	197.349(20%Imax)
592.047(60%Imax)	98.674(10%Imax)

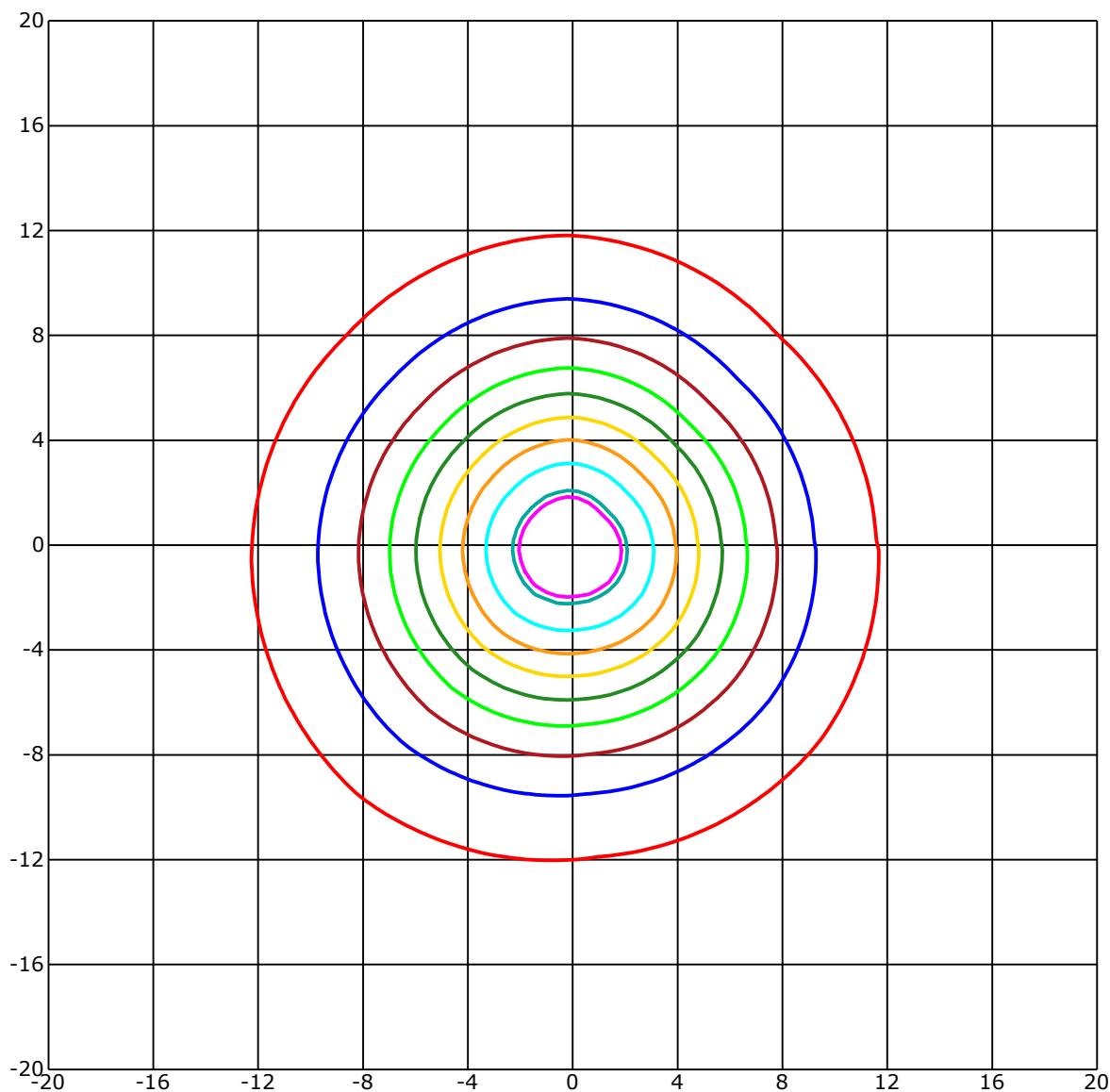
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ISOLX DIAGRAM



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

9.07(92%Emax)	4.929(50%Emax)
8.873(90%Emax)	3.943(40%Emax)
7.887(80%Emax)	2.958(30%Emax)
6.901(70%Emax)	1.972(20%Emax)
5.915(60%Emax)	0.986(10%Emax)

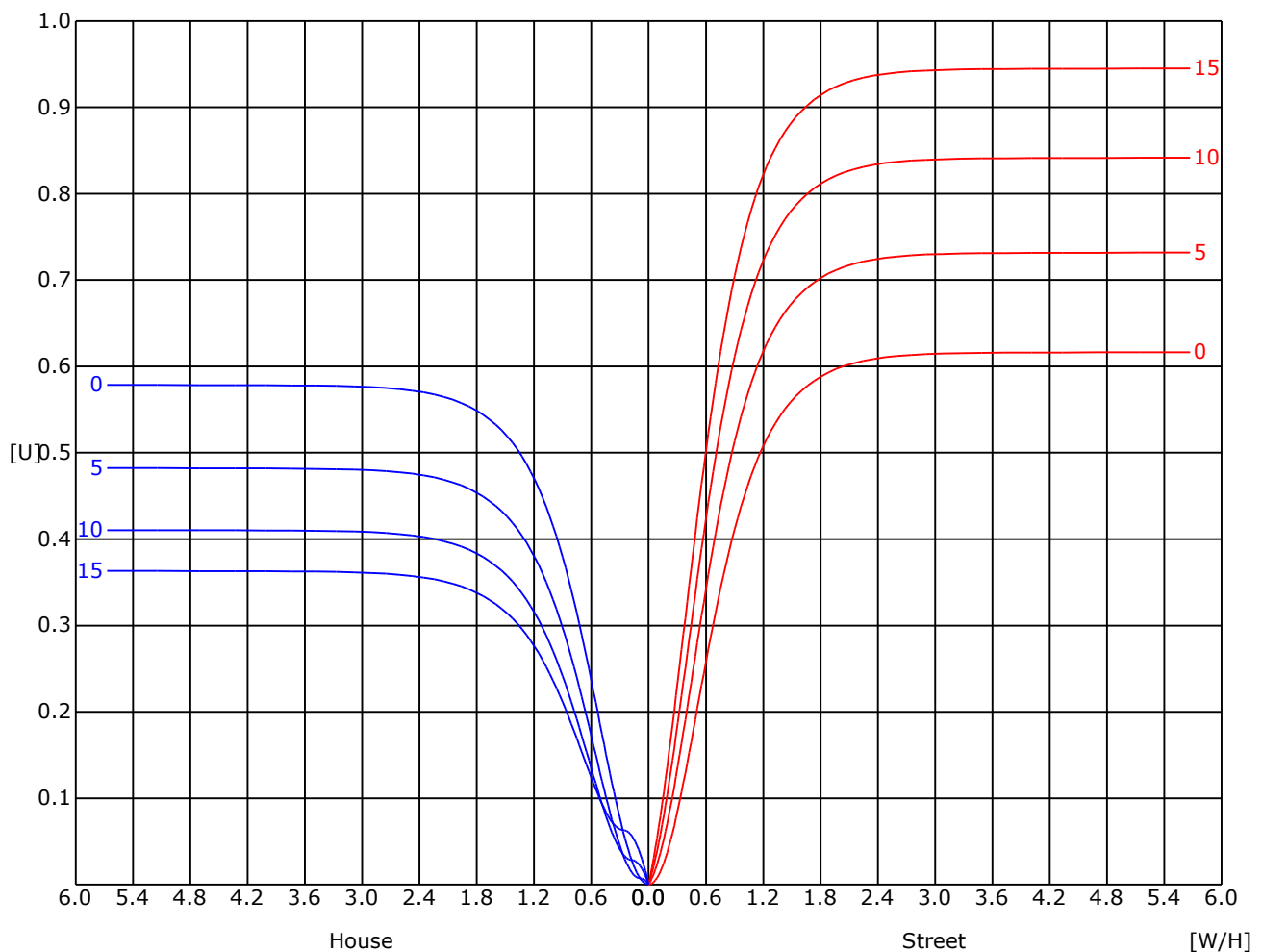
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UTILIZATION FACTOR DIAGRAM (ROAD)



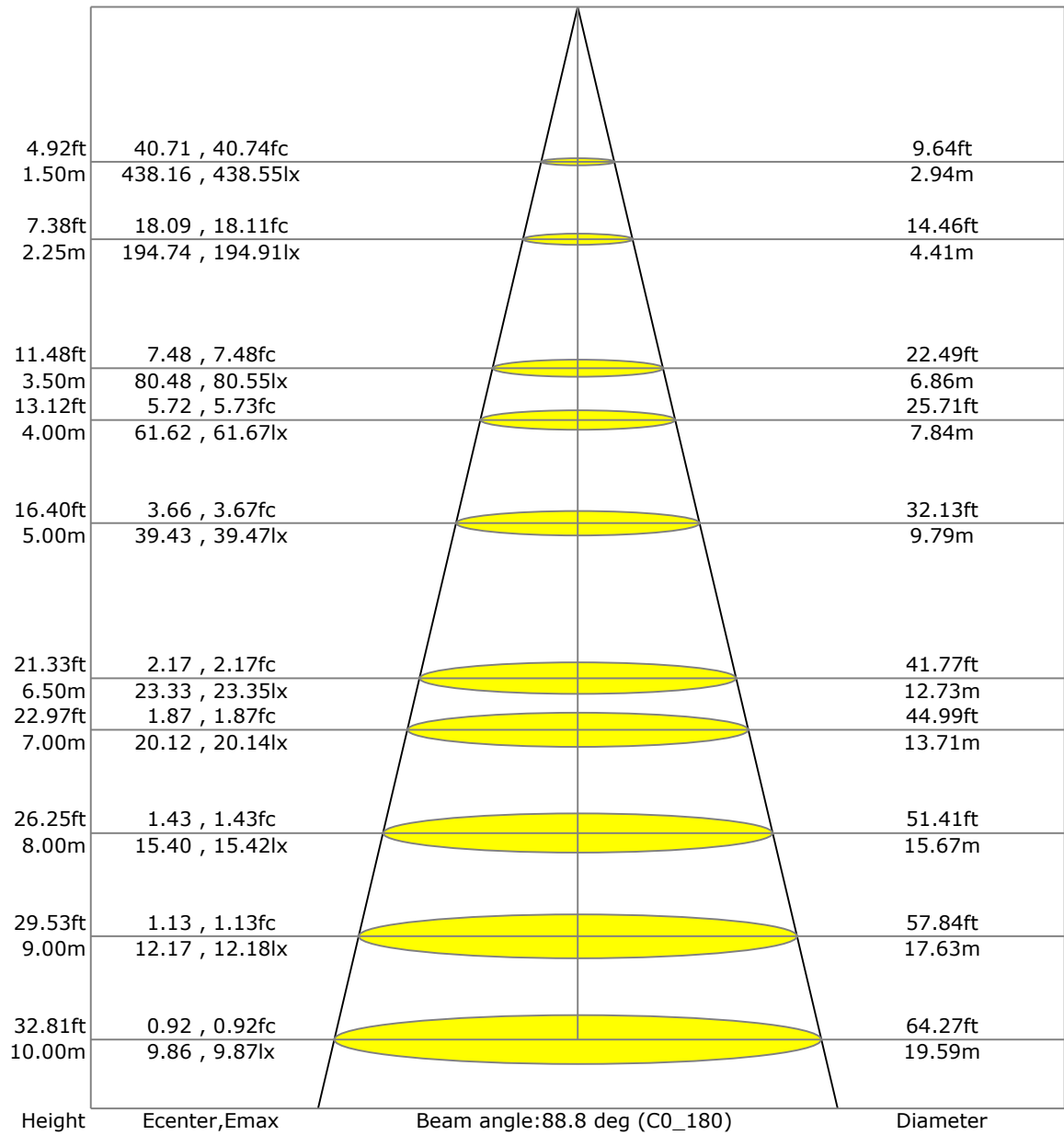
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LX-DISTANCE DIAGRAM



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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	18.14	18.20	18.34	18.39	18.63	18.30	18.37	18.50	18.56	18.80
3H	18.11	18.17	18.32	18.36	18.61	18.27	18.33	18.48	18.53	18.77
4H	18.09	18.15	18.30	18.34	18.59	18.25	18.31	18.46	18.50	18.75
6H	18.06	18.12	18.28	18.32	18.57	18.22	18.28	18.44	18.48	18.73
8H	18.05	18.11	18.27	18.31	18.56	18.21	18.27	18.43	18.47	18.72
12H	18.03	18.09	18.26	18.30	18.55	18.19	18.25	18.42	18.46	18.71
4H 2H	18.27	18.33	18.48	18.53	18.77	18.51	18.57	18.72	18.76	19.01
3H	18.23	18.29	18.45	18.49	18.75	18.46	18.52	18.69	18.73	18.98
4H	18.20	18.26	18.43	18.47	18.73	18.44	18.49	18.66	18.70	18.96
6H	18.17	18.22	18.41	18.44	18.71	18.40	18.46	18.64	18.68	18.94
8H	18.15	18.20	18.40	18.43	18.70	18.39	18.44	18.63	18.66	18.93
12H	18.14	18.18	18.38	18.41	18.68	18.37	18.42	18.62	18.65	18.92
8H 4H	18.23	18.29	18.45	18.49	18.75	18.47	18.53	18.69	18.73	18.99
6H	18.12	18.16	18.37	18.40	18.67	18.35	18.40	18.61	18.64	18.91
8H	18.10	18.14	18.36	18.39	18.66	18.33	18.38	18.60	18.62	18.90
12H	18.08	18.12	18.35	18.37	18.65	18.31	18.35	18.58	18.61	18.89
12H 4H	18.14	18.18	18.38	18.41	18.68	18.37	18.42	18.62	18.65	18.92
6H	18.10	18.14	18.36	18.39	18.66	18.34	18.38	18.60	18.62	18.90

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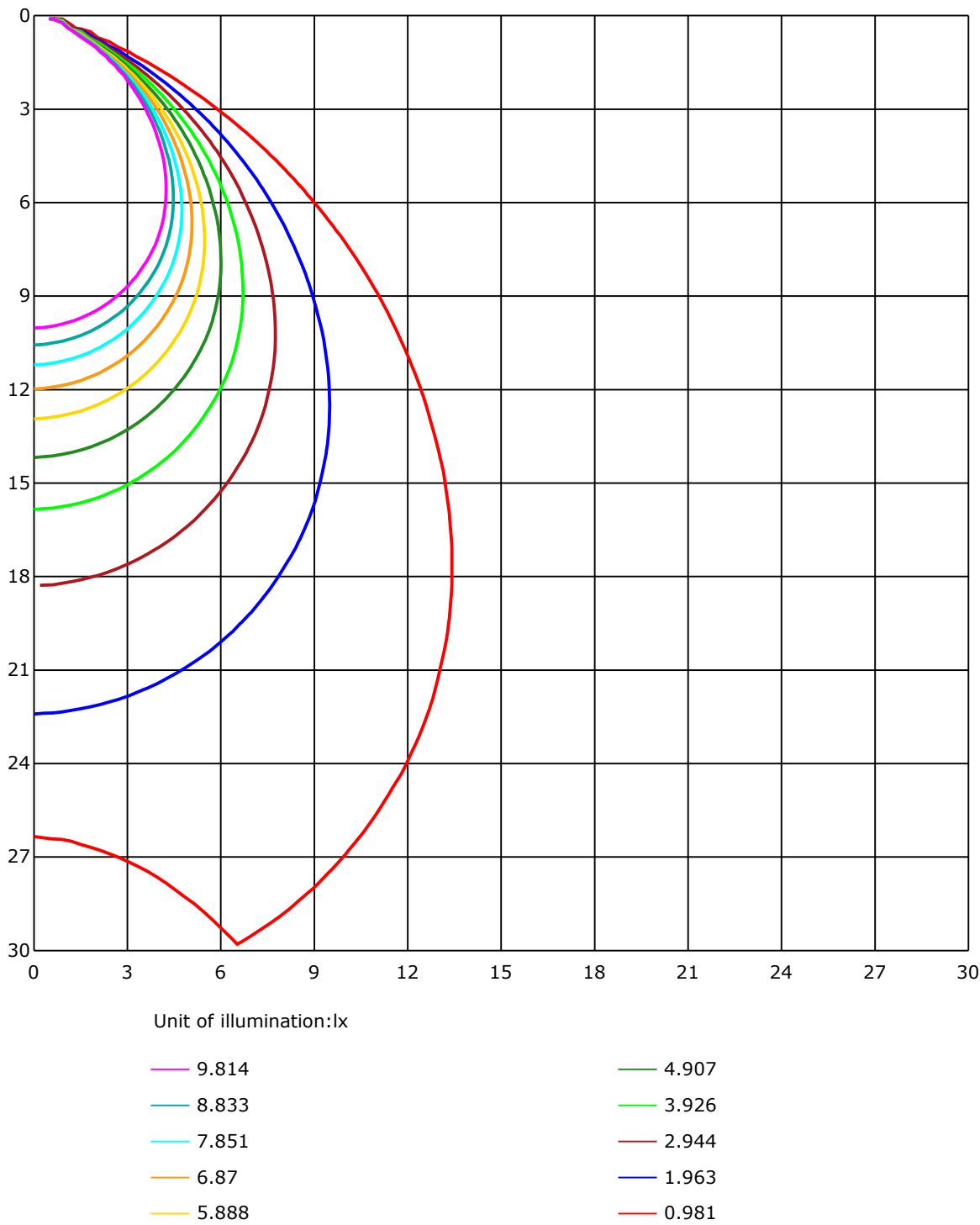
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/7 17:11:13

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	985.86	975.2	978.81	984.38	985.86	975.2	978.81	984.38	985.86	
G1	983.22	973.06	980.25	982.25	985.17	978.21	980.39	982.34	983.22	
G2	983.68	969.82	978.58	980.3	986.74	978.07	980.07	983.36	983.68	
G3	979.42	967.36	978.44	977.89	984.94	978.95	979.19	980.81	979.42	
G4	977.24	964.39	974.96	976.63	984.89	979.32	977.24	978.77	977.24	
G5	974.04	958.87	971.95	974.92	982.85	980.39	976.31	977.52	974.04	
G6	970.37	955.02	968.19	971.76	982.38	977.52	973.48	977.42	970.37	
G7	966.76	952.98	968.29	966.99	978.72	976.22	970.88	971.81	966.76	
G8	962.03	944.08	963.05	964.44	976.54	974.32	967.82	969.86	962.03	
G9	955.63	938.33	957.43	959.89	974.59	972.69	966.48	964.85	955.63	
G10	951.22	932.86	952.1	953.54	969.96	969.4	959.8	961.24	951.22	
G11	944.4	926.78	946.86	948.99	964.21	966.15	956.65	958.08	944.4	
G12	937.31	918.25	943.29	943.99	960.17	962.3	950.2	951.54	937.31	
G13	930.3	911.34	935.41	936.84	954.23	962.26	946.95	945.19	930.3	
G14	922.79	903.22	928.77	930.86	949.97	954.14	938.93	940.69	922.79	
G15	915.56	895.57	923.07	922.93	943.1	948.95	934.8	934.2	915.56	
G16	906.98	885.09	915.7	915.09	937.17	942.64	925.67	926.59	906.98	
G17	897.1	874.56	907.07	906.79	930.17	939.95	919.73	919.22	897.1	
G18	888.8	864.82	898.17	897.15	923.44	930.54	912.31	914.58	888.8	
G19	877.2	855.45	888.89	887.73	912.4	924.04	902.8	902.57	877.2	
G20	867.6	843.77	878.69	880.5	904.52	914.77	892.83	893.11	867.6	
G21	855.41	830.92	869.92	868.81	895.38	908.93	883.93	883.37	855.41	
G22	845.11	819.47	858.47	857.49	886.29	899.42	872.29	872.66	845.11	
G23	832.54	808.1	847.29	845.53	875.81	889.22	862.6	863.11	832.54	
G24	819.65	793.91	835.7	834.68	864.36	877.9	850.58	852.25	819.65	
G25	806.76	780.42	824.61	821.55	853.69	868.76	839.36	838.76	806.76	
G26	795.67	767.76	810.24	808.61	842.51	857.22	826.14	828.42	795.67	
G27	780.46	753.33	797.95	794.84	829.34	845.07	815.15	815.52	780.46	
G28	767.48	736.82	785.33	782.27	816.45	833.33	800.08	801.47	767.48	
G29	751.76	722.86	771.65	767.66	804.63	823.04	787.79	787.47	751.76	
G30	737.15	705.06	755.79	753.66	791.18	808.71	771.28	774.67	737.15	
G31	719.99	688.5	741.88	738.35	776.1	794.79	758.71	759.46	719.99	
G32	702.13	670.32	725.6	721.52	762.42	781.53	740.58	744.43	702.13	
G33	685.58	652.09	708.16	705.2	746.7	766.55	724.9	727.73	685.58	
G34	668.93	633.4	691.33	687.71	732.19	753.15	706.59	710.3	668.93	
G35	649.87	614.67	672.96	669.02	713.13	737.24	690.96	692.63	649.87	
G36	631.13	594.82	654.92	650.38	696.8	720.13	670.51	674.73	631.13	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	610.77	574.0	635.26	631.6	678.39	703.39	651.35	656.41	610.77	
G38	591.57	553.92	615.6	610.96	660.86	685.25	630.99	636.93	591.57	
G39	570.57	533.33	595.33	590.97	640.69	667.07	612.35	616.71	570.57	
G40	550.67	510.65	575.39	571.08	622.51	648.52	590.83	597.14	550.67	
G41	528.78	489.27	554.33	549.51	601.41	628.77	570.15	576.32	528.78	
G42	509.3	467.19	532.35	528.36	581.88	610.45	548.77	556.98	509.3	
G43	485.7	445.49	511.02	506.52	559.34	588.84	527.11	534.62	485.7	
G44	463.44	423.32	489.36	484.82	538.75	568.43	503.04	511.53	463.44	
G45	442.15	401.9	468.63	462.93	516.95	547.38	481.29	489.78	442.15	
G46	421.98	380.01	446.0	442.29	496.69	526.23	458.8	468.26	421.98	
G47	399.44	359.69	423.46	419.75	473.13	504.57	437.88	446.09	399.44	
G48	377.55	337.48	401.48	397.35	451.38	482.91	414.23	423.04	377.55	
G49	356.03	317.12	381.17	375.41	428.52	461.3	392.85	401.57	356.03	
G50	336.09	296.67	358.77	354.96	406.3	439.04	370.68	380.98	336.09	
G51	314.24	276.03	338.13	333.44	385.43	416.69	349.07	359.23	314.24	
G52	294.12	256.55	317.95	313.32	364.24	395.59	328.62	337.76	294.12	
G53	273.25	237.07	297.46	292.26	341.84	375.23	308.12	317.44	273.25	
G54	253.17	218.48	276.59	272.83	320.51	352.74	287.58	297.5	253.17	
G55	233.09	200.07	257.34	252.7	300.01	331.73	267.13	276.68	233.09	
G56	213.42	181.93	237.63	233.87	279.46	311.0	247.23	256.46	213.42	
G57	194.46	165.05	219.5	214.72	259.61	290.78	228.59	236.56	194.46	
G58	176.18	148.31	200.72	195.99	240.0	270.65	209.94	218.01	176.18	
G59	158.47	132.77	182.54	178.04	219.92	249.97	192.23	198.44	158.47	
G60	141.45	116.73	164.73	160.41	201.6	230.58	173.91	180.54	141.45	
G61	124.8	101.84	147.66	143.16	183.09	211.34	156.57	162.55	124.8	
G62	109.54	87.74	131.11	126.56	165.15	192.14	139.92	145.76	109.54	
G63	94.38	74.57	115.52	110.89	148.03	173.63	123.73	129.25	94.38	
G64	80.42	62.0	100.5	96.18	132.08	156.01	108.01	113.58	80.42	
G65	67.57	50.5	86.35	81.76	116.03	138.94	93.22	98.55	67.57	
G66	55.74	39.47	72.35	68.54	100.91	122.06	78.98	83.89	55.74	
G67	43.83	30.1	60.15	56.21	86.35	105.97	65.44	70.58	43.83	
G68	33.72	21.89	48.46	44.52	73.37	90.85	52.96	58.02	33.72	
G69	25.32	14.52	38.4	34.64	60.52	76.75	41.55	46.05	25.32	
G70	17.9	8.16	29.31	25.41	49.34	63.77	31.58	36.36	17.9	
G71	11.32	3.39	21.43	17.67	38.31	51.85	22.63	27.22	11.32	
G72	5.7	1.67	14.56	10.62	29.4	40.67	14.61	19.29	5.7	
G73	2.55	1.3	8.95	4.87	21.1	31.3	7.79	12.38	2.55	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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