

Report No.:

Test Time: 2024/9/20 11:16:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H116-24°-25W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 70 mm

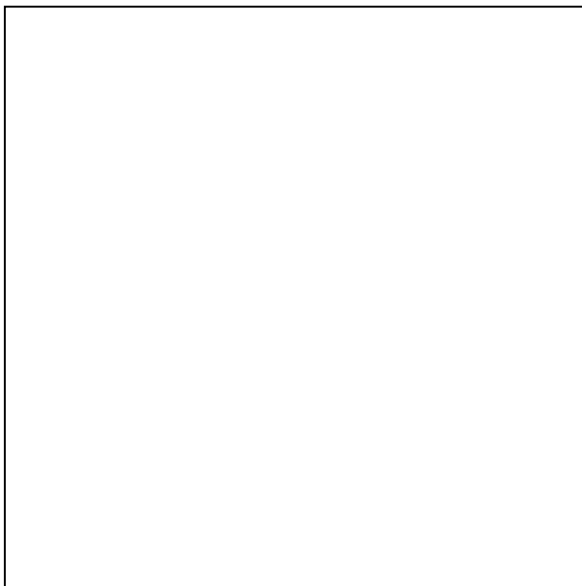
Voltage(V): 219.80 V
Current(A): 0.1180 A
Power(W): 25.11 W
Power Factor: 0.9670
Lamp Luminous Flux: 2241.17

Photometric Results

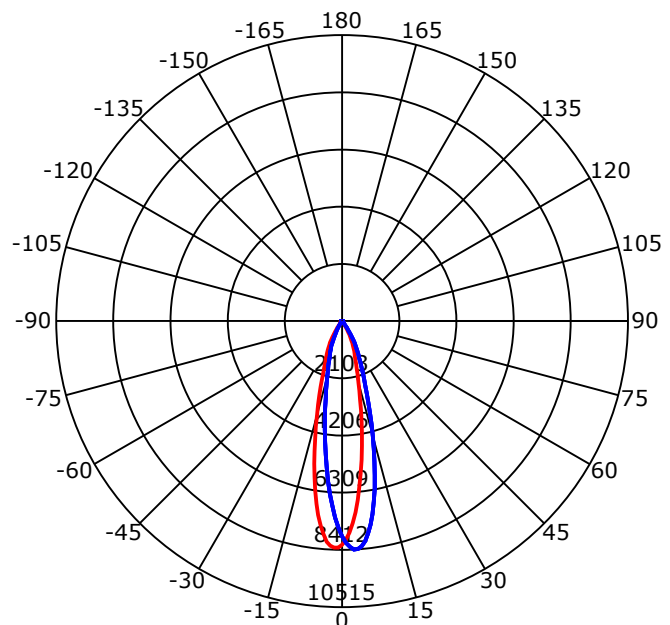
CIE Class: Direct
Luminaire Luminous Flux: 2241.168 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 89.25 lm/W
Beam Angle(50%) C0-180,C90-270: 23.6,24.0
Field Angle(10%) C0-180,C90-270: 55.2,55.2
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 8411.70 cd
Max.Intensity Angle: C=90 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8226.19 cd
Effective Luminous Flux: 1892.80 lm
ERP(ϕ use)(120deg): 2211.33 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.6 deg,24.0 deg

C0-180 — C90-270 —

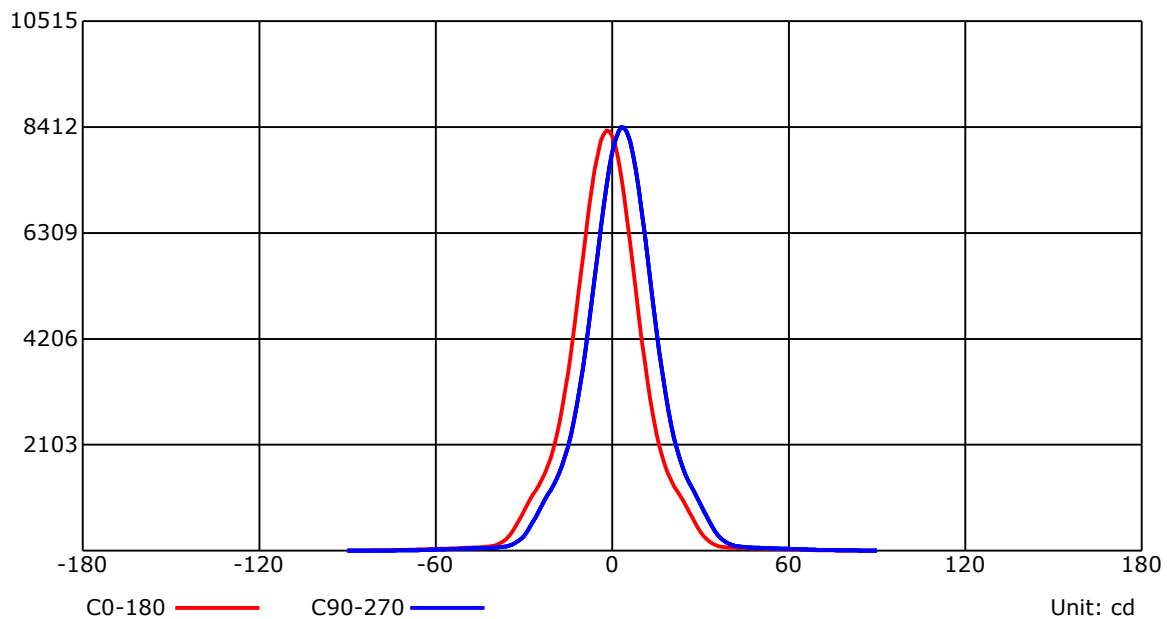
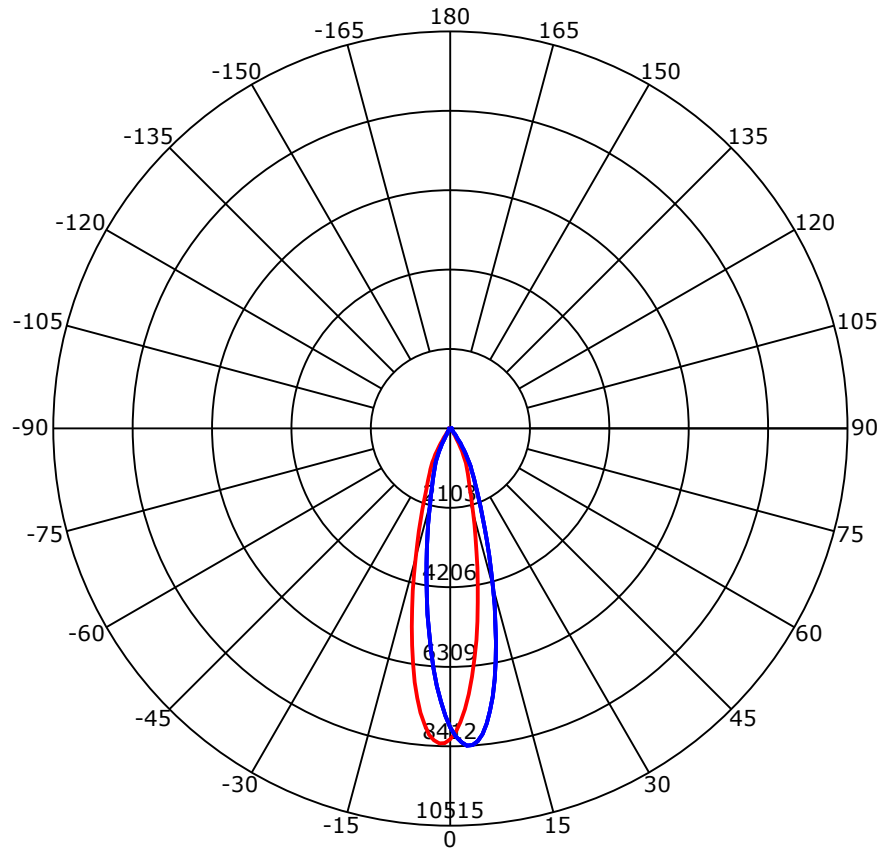
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/20 11:16:11

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



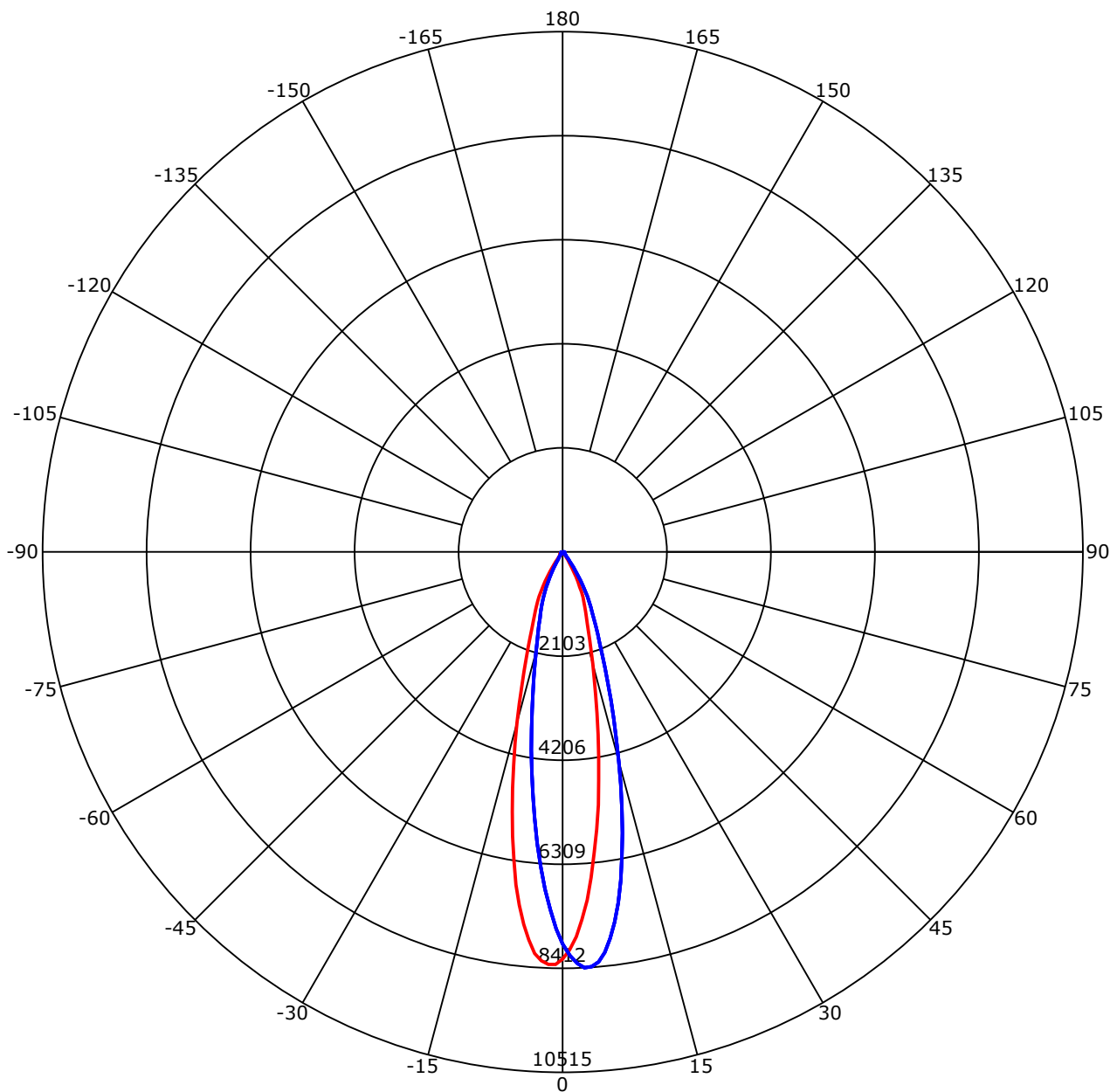
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/9/20 11:16:11

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

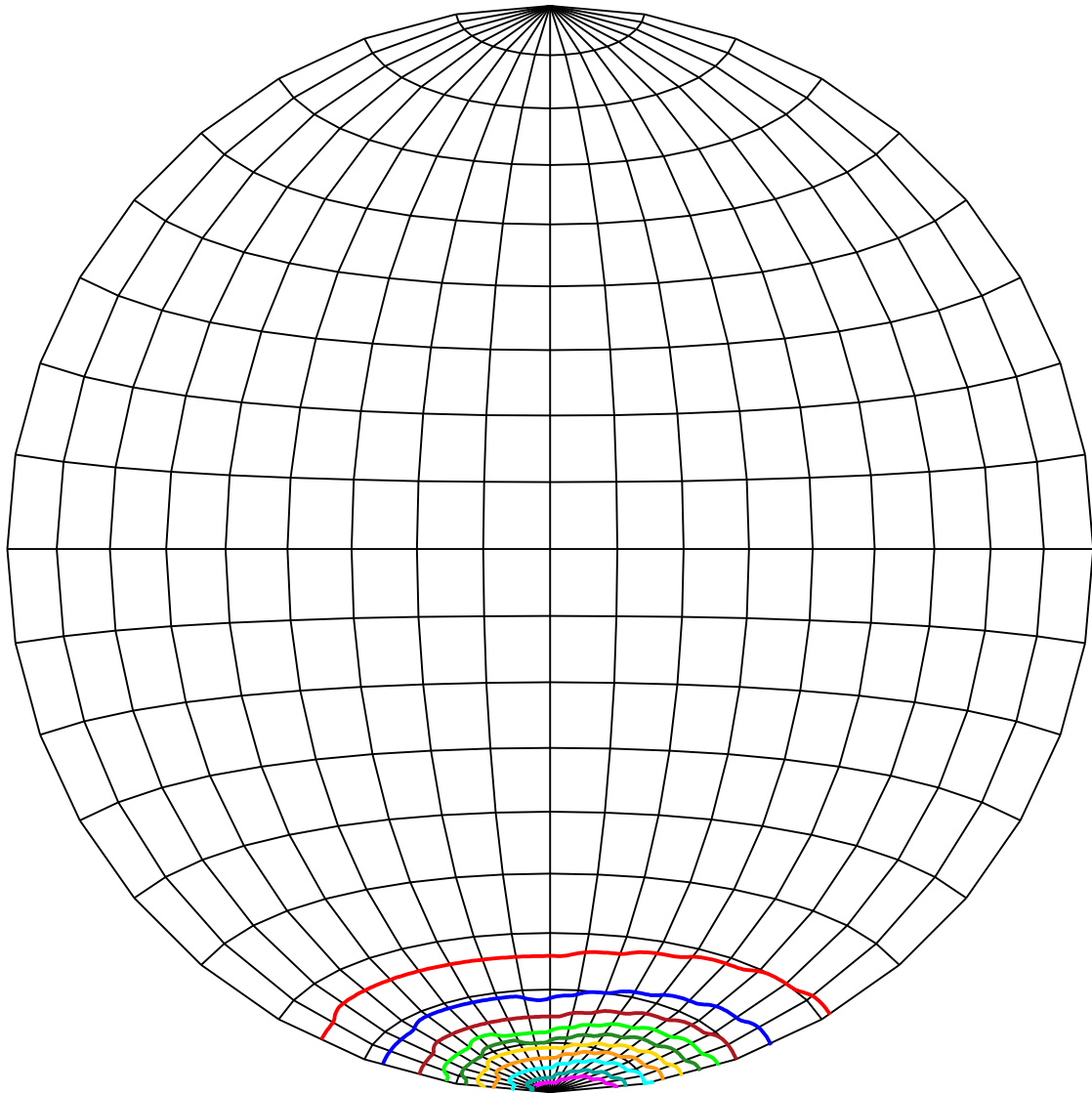
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 8411.697 cd

7991.112(95%I _{max})	4205.849(50%I _{max})
7570.527(90%I _{max})	3364.679(40%I _{max})
6729.358(80%I _{max})	2523.509(30%I _{max})
5888.188(70%I _{max})	1682.339(20%I _{max})
5047.019(60%I _{max})	841.17(10%I _{max})

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Test Speed: High

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

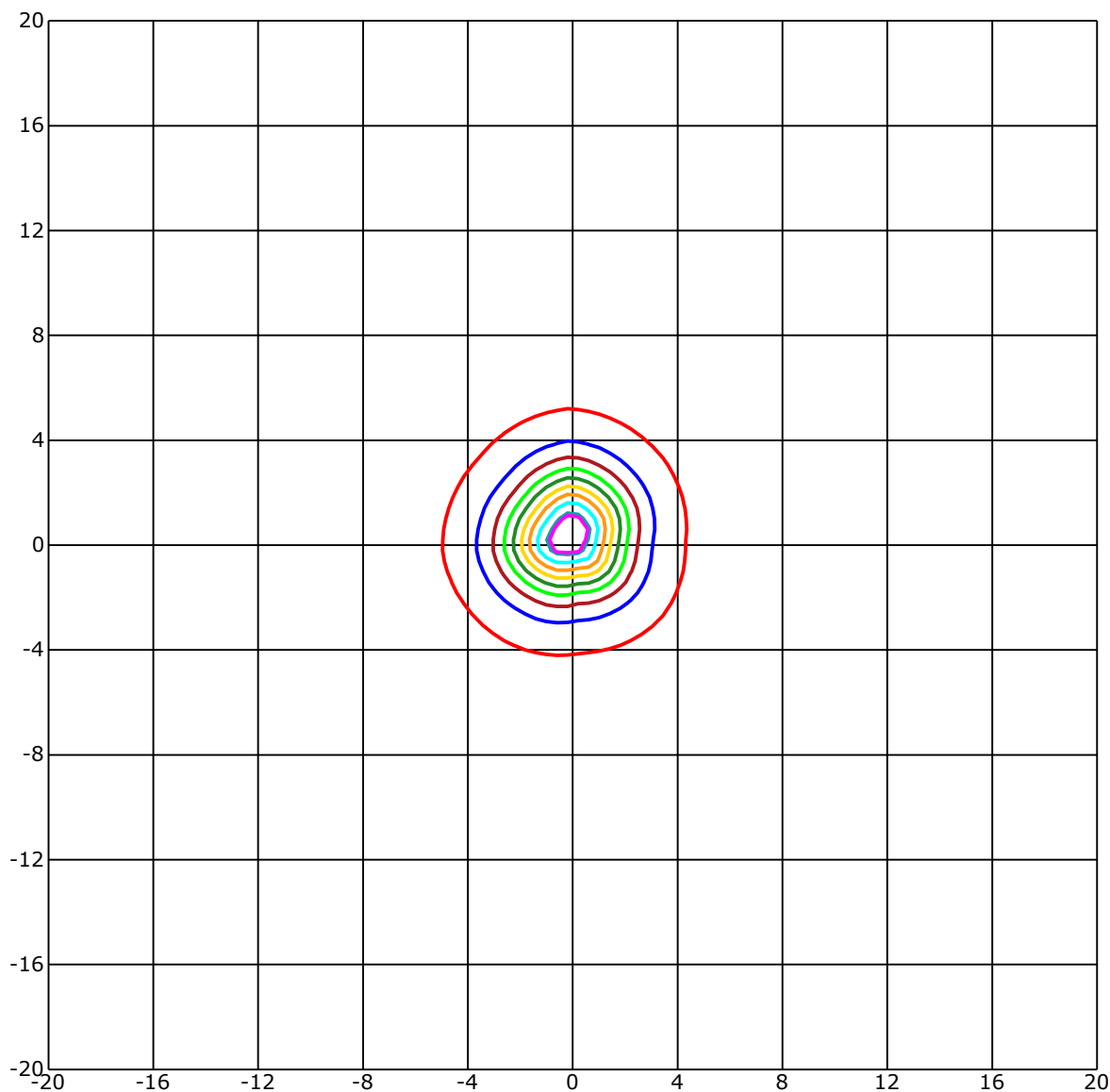
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ISOLX DIAGRAM



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

77.183(92%Emax)	41.947(50%Emax)
75.505(90%Emax)	33.558(40%Emax)
67.115(80%Emax)	25.168(30%Emax)
58.726(70%Emax)	16.779(20%Emax)
50.336(60%Emax)	8.389(10%Emax)

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Humidity: 60

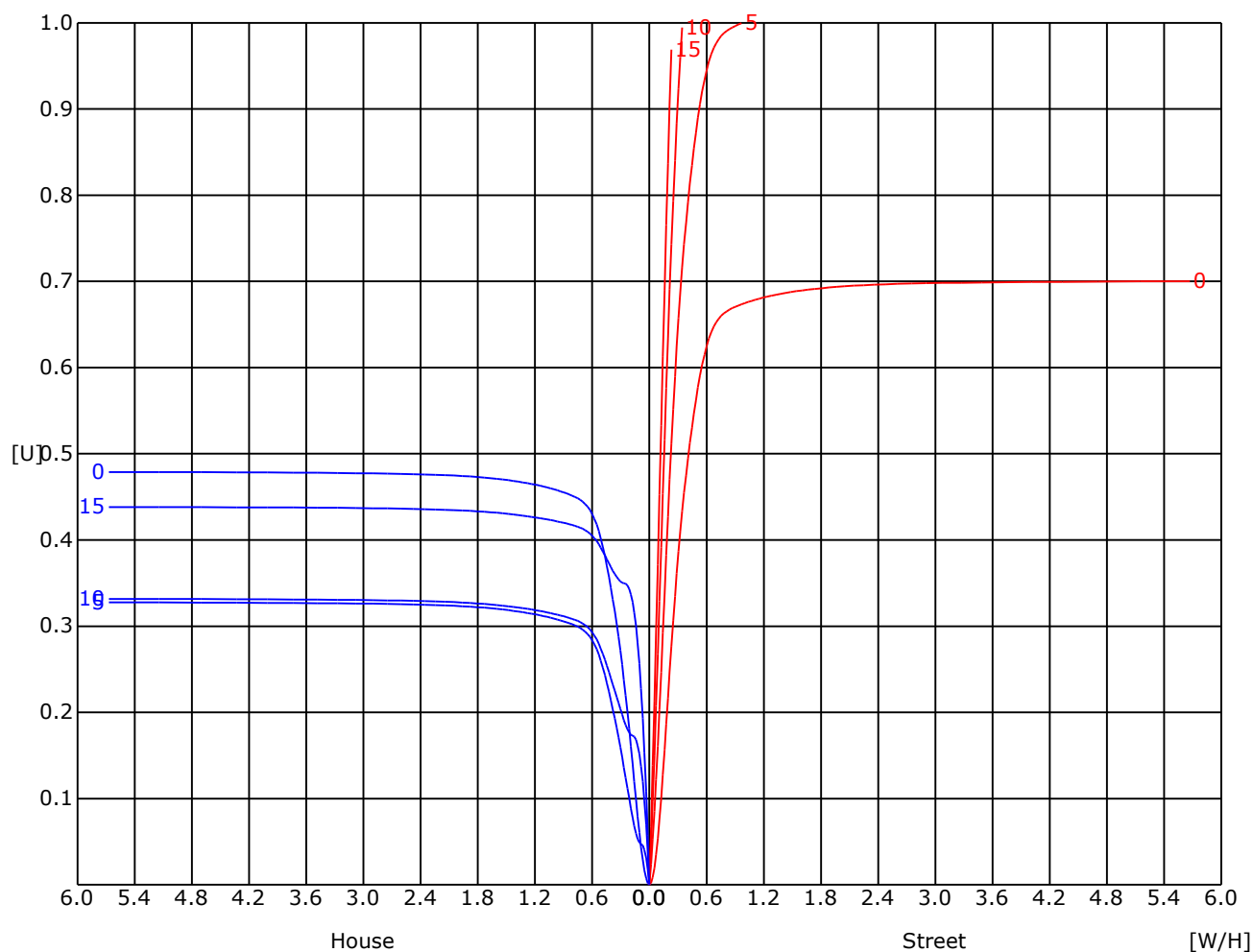
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UTILIZATION FACTOR DIAGRAM (ROAD)



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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

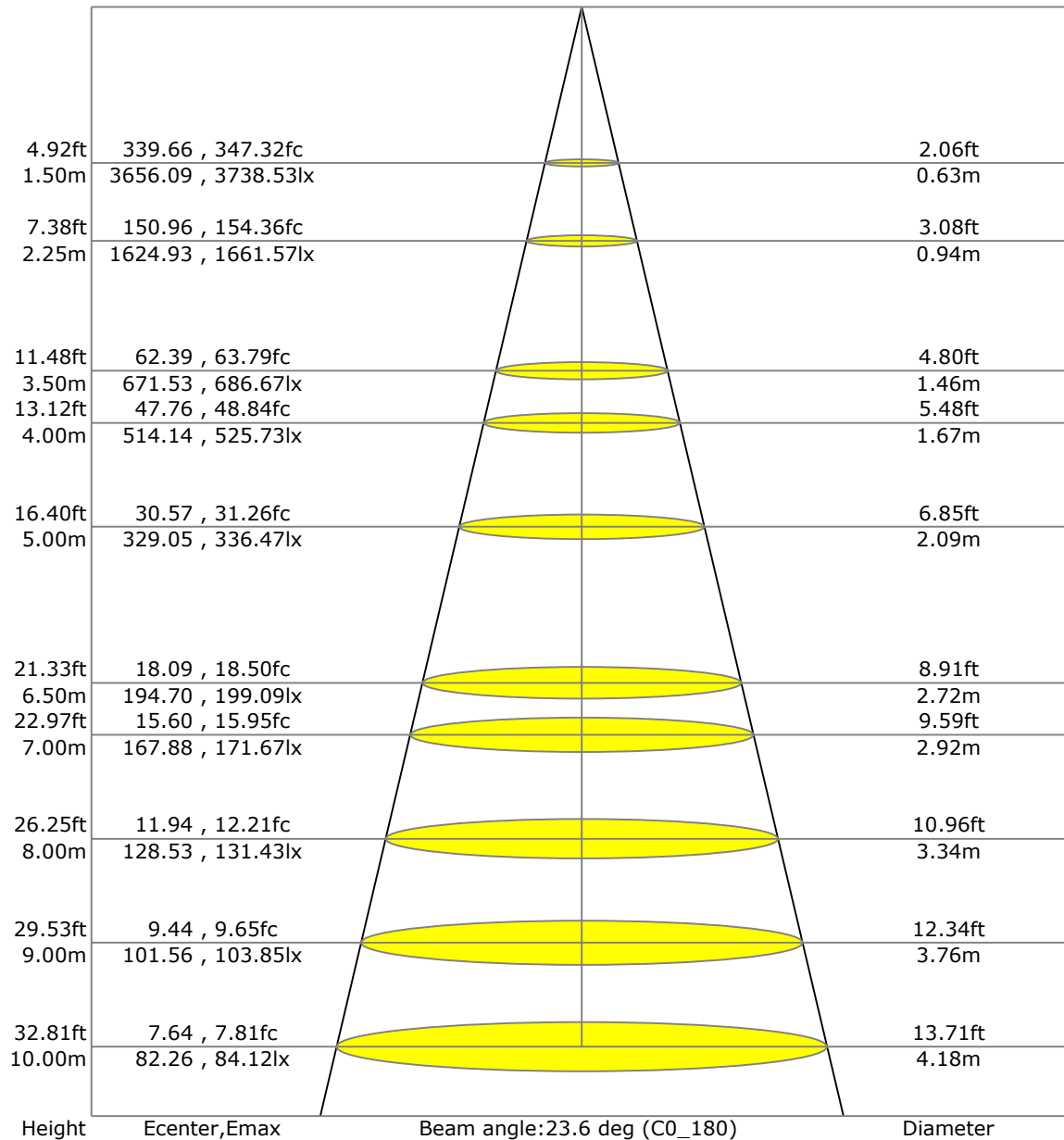
Test Distance: 6.81 m

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

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Humidity: 60

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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	9.66	9.72	9.86	9.90	10.15	9.97	10.02	10.17	10.21	10.45
3H	9.70	9.76	9.90	9.95	10.20	9.98	10.04	10.19	10.23	10.48
4H	9.69	9.75	9.90	9.95	10.20	9.97	10.03	10.18	10.23	10.47
6H	9.68	9.74	9.90	9.94	10.19	9.95	10.01	10.17	10.22	10.47
8H	9.67	9.73	9.89	9.94	10.19	9.95	10.01	10.17	10.21	10.46
12H	9.66	9.72	9.89	9.93	10.18	9.94	10.00	10.16	10.20	10.46
4H 2H	10.15	10.20	10.36	10.40	10.65	10.83	10.89	11.04	11.09	11.34
3H	10.23	10.29	10.45	10.49	10.75	10.89	10.95	11.12	11.16	11.41
4H	10.24	10.30	10.47	10.51	10.77	10.89	10.95	11.12	11.16	11.42
6H	10.23	10.29	10.47	10.51	10.78	10.87	10.93	11.11	11.16	11.42
8H	10.22	10.28	10.46	10.51	10.77	10.86	10.92	11.11	11.15	11.41
12H	10.21	10.27	10.46	10.50	10.77	10.85	10.91	11.10	11.14	11.41
8H 4H	10.16	10.22	10.38	10.43	10.68	11.05	11.11	11.27	11.31	11.56
6H	10.26	10.32	10.52	10.55	10.83	11.15	11.21	11.41	11.44	11.72
8H	10.25	10.30	10.51	10.55	10.83	11.13	11.19	11.40	11.44	11.71
12H	10.23	10.28	10.50	10.54	10.82	11.12	11.17	11.39	11.42	11.71
12H 4H	10.25	10.31	10.50	10.54	10.81	11.21	11.27	11.46	11.50	11.77
6H	10.24	10.30	10.51	10.54	10.82	11.20	11.25	11.46	11.50	11.78

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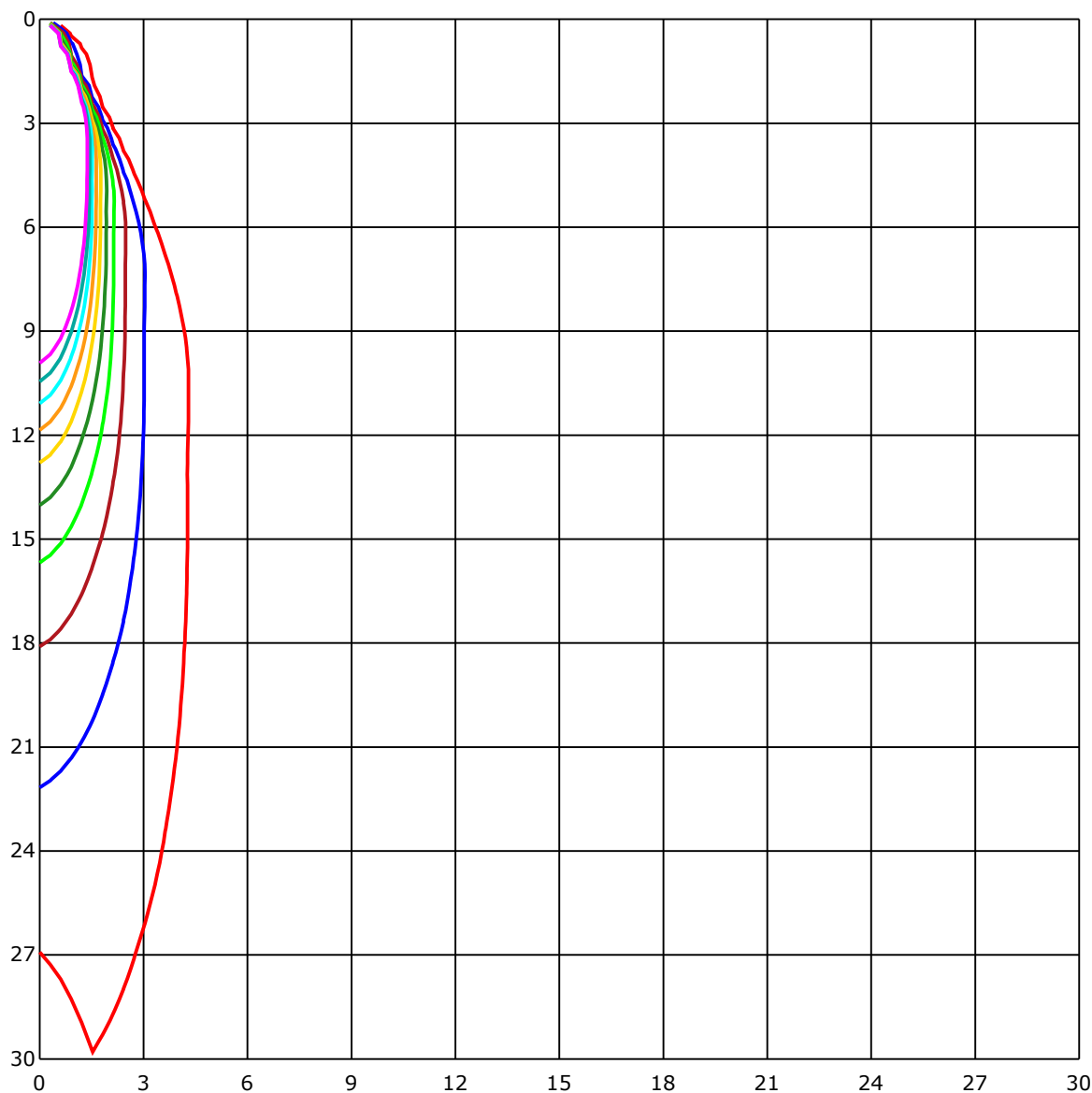
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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

83.69	41.845
75.321	33.476
66.952	25.107
58.583	16.738
50.214	8.369

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G Interval: 1.0 Deg
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8226.19	8192.39	7918.49	8286.02	8226.19	8192.39	7918.49	8286.02	8226.19	
G1	8041.94	8266.35	8150.14	8393.24	8332.49	8028.63	7613.66	8093.28	8041.94	
G2	7778.15	8243.12	8312.31	8380.44	8339.26	7812.1	7230.5	7820.68	7778.15	
G3	7440.16	8138.36	8411.7	8306.56	8267.42	7521.37	6821.74	7506.06	7440.16	
G4	7051.02	7969.92	8398.34	8161.73	8132.1	7165.62	6381.12	7100.55	7051.02	
G5	6601.17	7716.84	8310.37	7936.34	7865.2	6777.77	5905.25	6667.77	6601.17	
G6	6107.83	7395.69	8132.79	7590.42	7563.71	6338.69	5413.81	6185.6	6107.83	
G7	5643.14	7008.45	7867.71	7209.3	7187.97	5872.61	4955.94	5692.9	5643.14	
G8	5159.34	6588.42	7552.63	6774.2	6787.05	5420.3	4497.51	5192.92	5159.34	
G9	4658.02	6116.03	7177.26	6334.79	6307.43	4953.76	4051.14	4702.72	4658.02	
G10	4190.36	5651.58	6739.84	5843.3	5829.99	4499.32	3637.23	4231.12	4190.36	
G11	3754.28	5169.41	6275.52	5344.29	5346.05	4072.52	3251.52	3795.23	3754.28	
G12	3330.59	4710.05	5801.14	4866.62	4876.17	3664.5	2904.03	3385.08	3330.59	
G13	2957.73	4248.65	5312.34	4403.74	4412.04	3288.34	2599.61	3014.91	2957.73	
G14	2635.93	3809.94	4837.4	3949.85	3971.37	2956.11	2323.4	2677.43	2635.93	
G15	2337.45	3394.13	4382.77	3534.69	3558.07	2645.9	2084.42	2388.0	2337.45	
G16	2080.94	3036.75	3935.85	3151.3	3187.29	2367.13	1883.98	2134.04	2080.94	
G17	1860.93	2697.65	3523.98	2802.65	2840.44	2128.85	1705.99	1917.42	1860.93	
G18	1670.14	2403.26	3147.78	2497.77	2532.88	1923.91	1554.48	1733.45	1670.14	
G19	1519.61	2143.92	2803.76	2224.48	2269.55	1745.78	1422.22	1581.66	1519.61	
G20	1398.15	1927.02	2496.94	1991.71	2042.91	1596.5	1306.37	1448.42	1398.15	
G21	1281.51	1733.17	2230.69	1798.33	1838.91	1460.48	1203.69	1333.68	1281.51	
G22	1187.09	1571.78	2004.14	1631.14	1672.93	1347.04	1107.04	1232.77	1187.09	
G23	1097.58	1434.23	1809.83	1493.91	1528.32	1238.15	1005.53	1146.56	1097.58	
G24	1001.17	1313.56	1640.65	1364.15	1412.2	1143.91	897.01	1049.26	1001.17	
G25	896.45	1203.18	1491.46	1258.65	1298.21	1037.39	789.55	947.6	896.45	
G26	786.63	1099.39	1366.29	1158.57	1203.78	926.78	676.81	839.73	786.63	
G27	675.33	988.92	1251.18	1062.8	1114.65	818.31	572.19	728.34	675.33	
G28	569.13	876.42	1142.89	962.07	1012.07	707.37	470.49	615.55	569.13	
G29	460.98	763.3	1028.95	854.71	907.49	597.83	374.49	509.53	460.98	
G30	368.88	653.3	914.81	738.12	797.02	495.9	296.99	409.78	368.88	
G31	291.43	543.95	800.36	624.83	684.84	398.83	237.21	325.7	291.43	
G32	231.74	442.38	679.83	516.63	571.35	326.26	189.35	257.48	231.74	
G33	179.85	355.43	570.84	414.7	470.39	259.1	152.48	205.31	179.85	
G34	141.68	282.62	471.27	326.63	375.79	208.32	122.9	163.29	141.68	
G35	113.39	223.25	378.01	254.47	298.11	169.18	101.98	132.96	113.39	
G36	92.89	175.3	302.84	199.19	235.78	139.78	87.09	110.7	92.89	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	78.89	140.01	241.25	156.33	186.15	116.87	76.94	95.67	78.89	
G38	70.91	113.16	194.73	123.31	151.14	101.15	69.61	85.1	70.91	
G39	65.58	93.17	155.59	100.03	123.08	89.13	64.65	78.79	65.58	
G40	62.98	79.21	127.26	85.89	103.23	81.76	61.31	73.69	62.98	
G41	59.64	69.89	107.13	76.06	90.02	75.41	57.78	69.66	59.64	
G42	57.74	63.86	92.2	67.06	82.18	70.12	55.51	66.74	57.74	
G43	55.28	59.83	83.62	63.16	75.82	67.15	53.19	63.91	55.28	
G44	54.4	57.27	76.85	59.55	71.19	64.79	51.43	61.4	54.4	
G45	50.69	54.4	70.68	57.27	67.76	61.4	50.55	59.45	50.69	
G46	49.72	53.1	67.52	54.26	66.13	60.38	47.54	56.76	49.72	
G47	48.05	50.32	64.23	53.15	62.33	56.16	46.1	55.05	48.05	
G48	47.03	48.74	61.87	51.06	60.01	54.49	44.24	53.38	47.03	
G49	44.66	47.49	59.32	49.9	57.51	51.62	43.04	51.29	44.66	
G50	43.45	45.45	56.25	46.75	56.25	49.81	40.86	48.88	43.45	
G51	40.9	43.36	53.94	44.94	52.96	47.86	38.91	47.35	40.9	
G52	39.74	43.04	52.27	43.18	51.11	45.91	36.82	45.12	39.74	
G53	37.56	40.35	50.83	42.02	49.34	43.41	36.36	44.01	37.56	
G54	36.64	38.77	48.23	40.3	46.7	41.69	33.95	41.65	36.64	
G55	34.23	36.82	47.07	37.94	44.52	39.33	32.19	41.46	34.23	
G56	32.32	35.66	45.08	36.92	42.81	38.17	31.07	38.82	32.32	
G57	30.79	34.09	42.99	35.48	40.9	35.62	30.1	36.96	30.79	
G58	29.59	32.65	40.81	33.25	39.74	34.23	26.16	33.72	29.59	
G59	27.87	31.49	39.42	31.49	37.75	32.05	24.86	31.95	27.87	
G60	25.23	29.5	37.29	30.24	35.15	30.33	23.05	29.96	25.23	
G61	23.51	27.27	35.57	28.94	33.99	27.96	21.52	28.1	23.51	
G62	21.47	26.53	32.97	26.43	32.74	26.34	19.06	25.55	21.47	
G63	19.62	23.84	31.21	25.51	30.61	24.3	16.56	23.84	19.62	
G64	18.36	22.59	29.54	23.56	28.34	23.51	13.77	21.19	18.36	
G65	14.38	19.85	28.1	22.12	26.76	19.57	12.34	18.36	14.38	
G66	12.48	17.9	25.32	19.66	24.53	17.67	11.04	16.6	12.48	
G67	11.5	15.77	23.51	18.27	22.17	14.7	9.6	14.33	11.5	
G68	11.5	14.79	21.56	16.6	20.03	14.47	10.02	13.73	11.5	
G69	9.32	10.94	19.15	13.68	17.67	12.94	9.23	12.8	9.32	
G70	9.09	10.81	16.42	11.32	15.95	12.24	8.35	12.15	9.09	
G71	8.44	9.18	14.42	11.32	14.19	11.45	7.61	10.99	8.44	
G72	7.51	9.6	13.77	10.06	14.28	10.99	6.72	10.62	7.51	
G73	7.0	8.39	13.03	10.02	12.61	10.02	6.4	9.28	7.0	

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