

Report No.:

Test Time: 2024/9/20 10:35:48

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H116-15°-25W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 70 mm

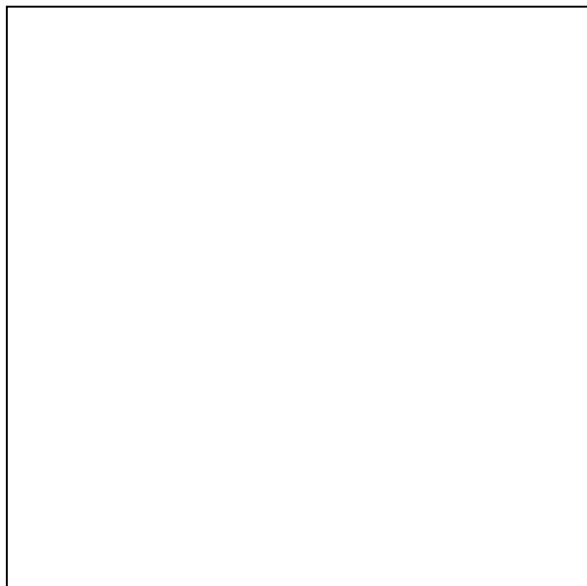
Voltage(V): 219.70 V
Current(A): 0.1180 A
Power(W): 25.28 W
Power Factor: 0.9670
Lamp Luminous Flux: 2301.33

Photometric Results

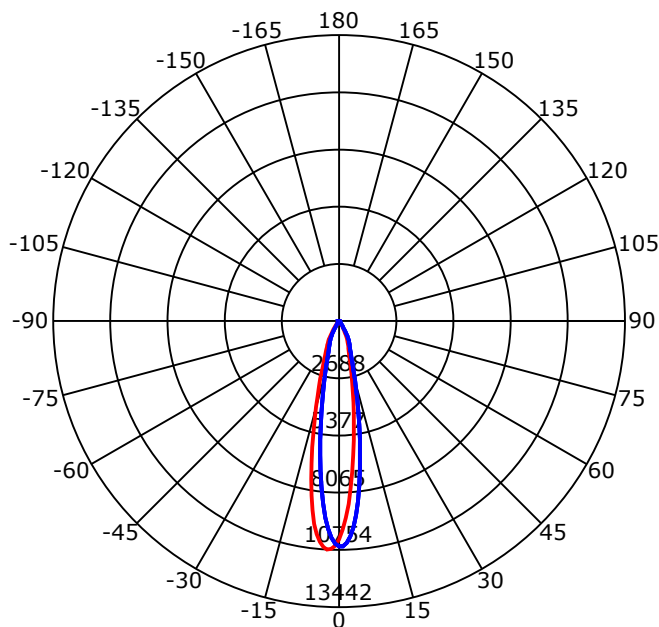
CIE Class: Direct
Luminaire Luminous Flux: 2301.326 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.03 lm/W
Beam Angle(50%) C0-180,C90-270: 20.4,20.0
Field Angle(10%) C0-180,C90-270: 50.4,50.1
S/MH C0-180,C90-270: 0.389,0.353

Max. Intensity: 10753.64 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 10259.65 cd
Effective Luminous Flux: 1830.54 lm
ERP(ϕ use)(120deg): 2269.38 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 20.4 deg,20.0 deg

C0-180 — C90-270 —

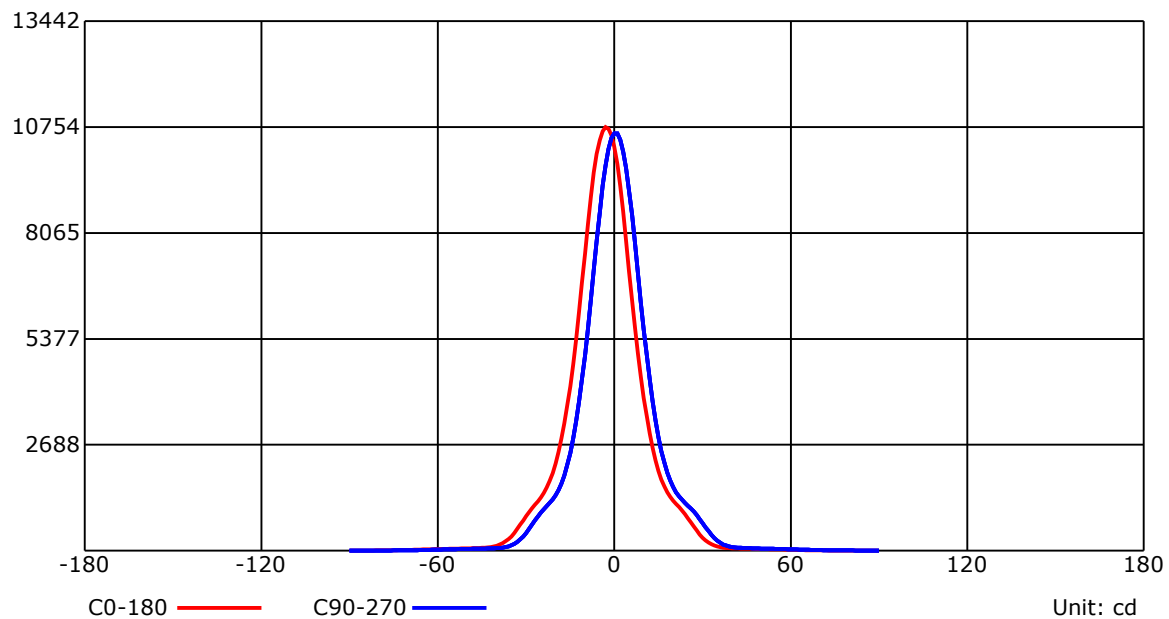
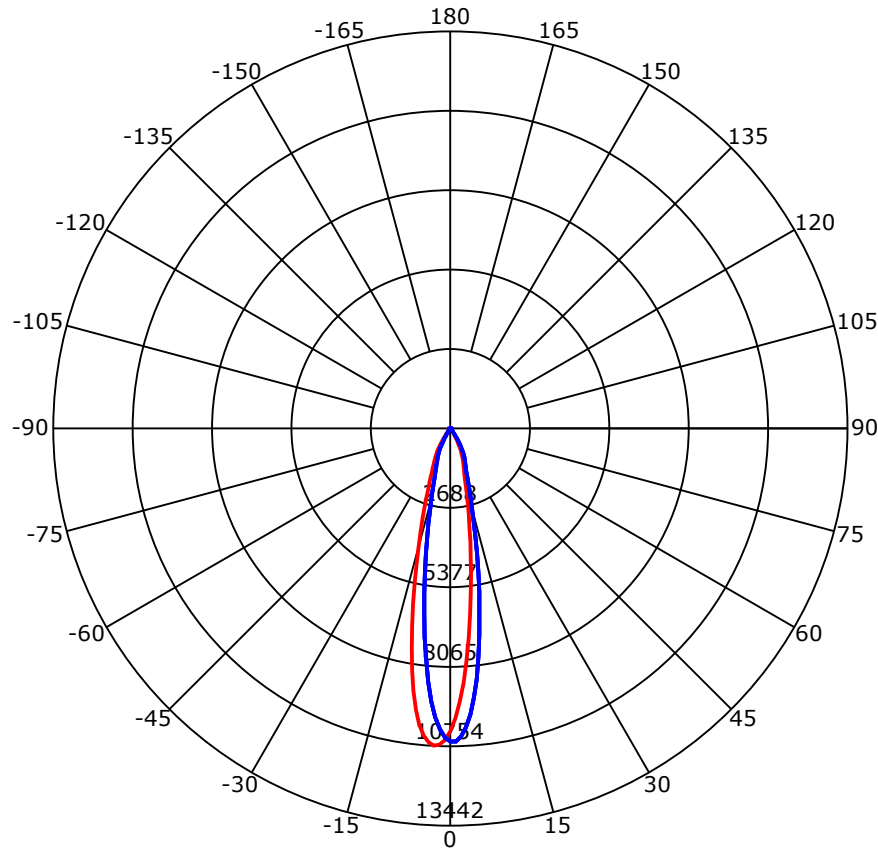
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/20 10:35:48

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



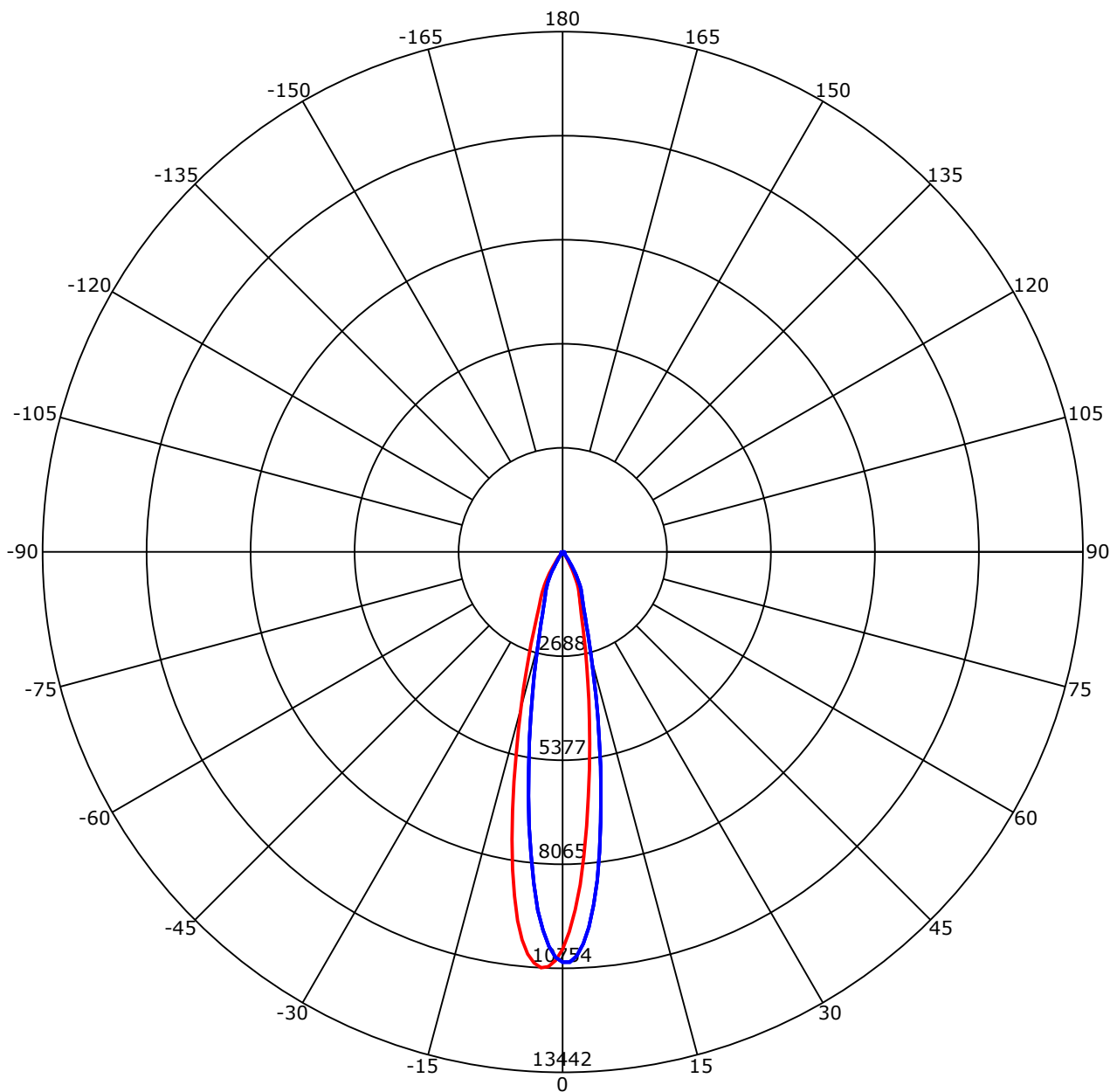
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

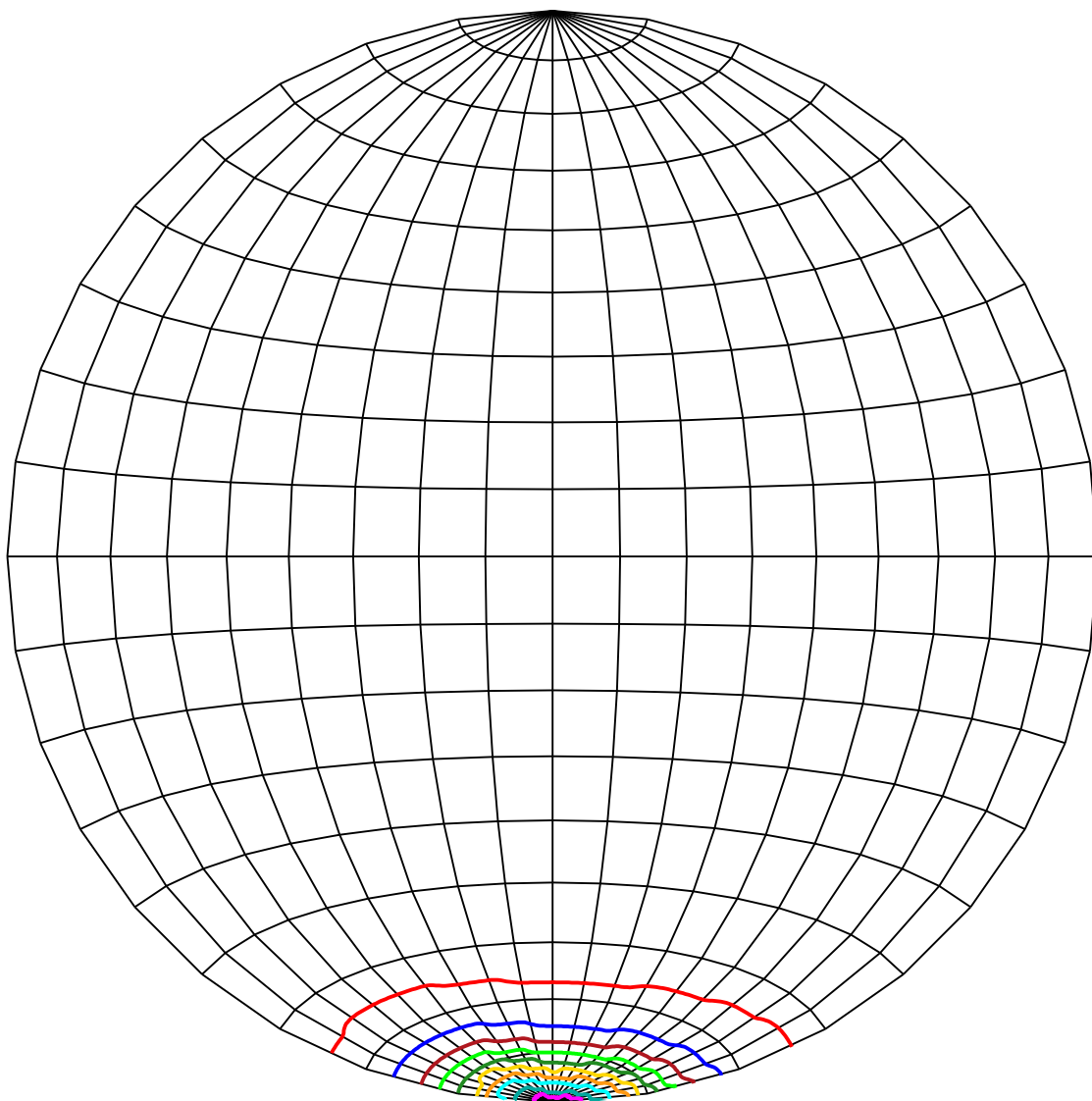
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 10753.64 cd

10215.96(95%Imax)	5376.822(50%Imax)
9678.279(90%Imax)	4301.458(40%Imax)
8602.915(80%Imax)	3226.093(30%Imax)
7527.55(70%Imax)	2150.729(20%Imax)
6452.187(60%Imax)	1075.364(10%Imax)

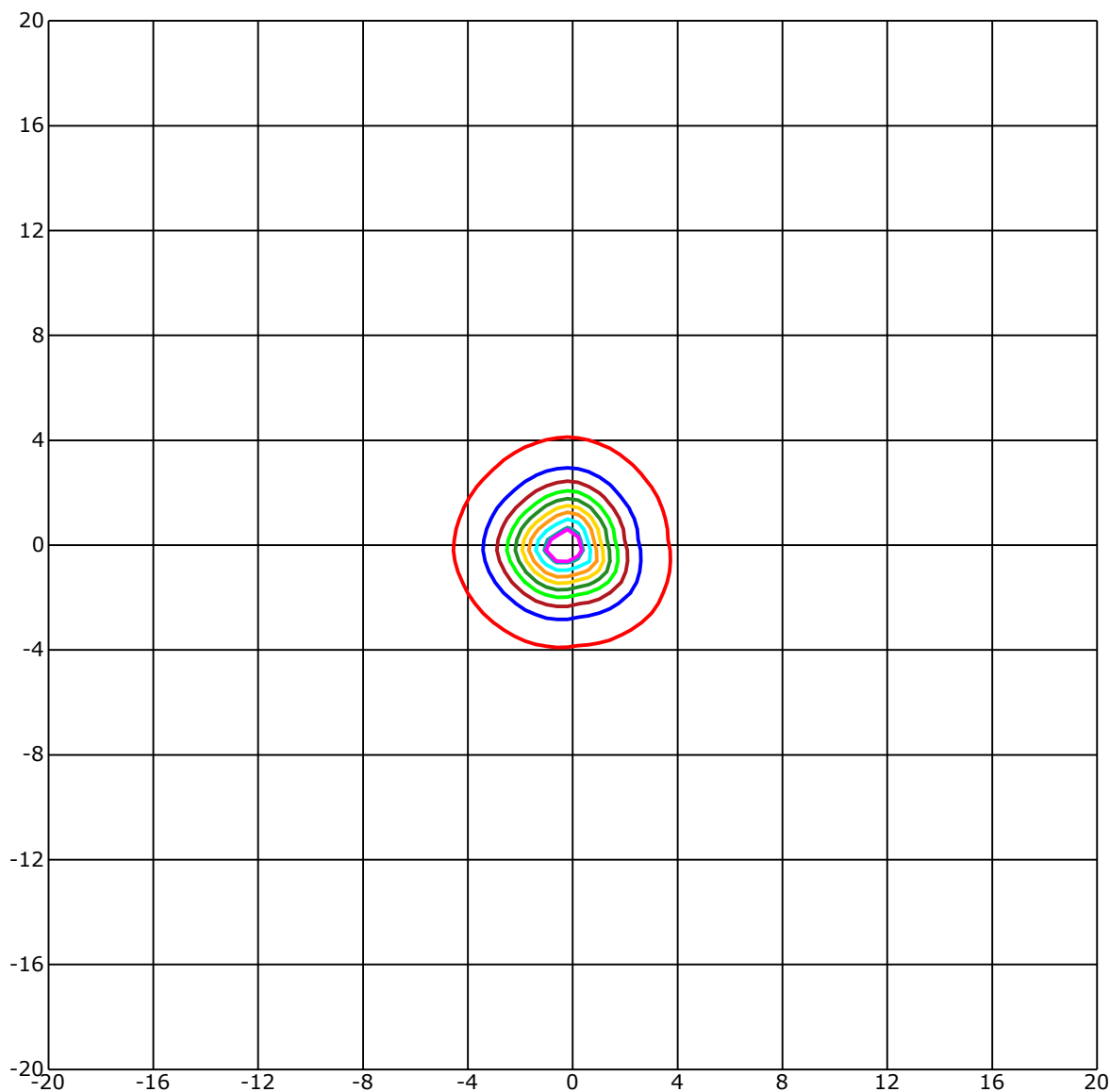
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ISOLX DIAGRAM



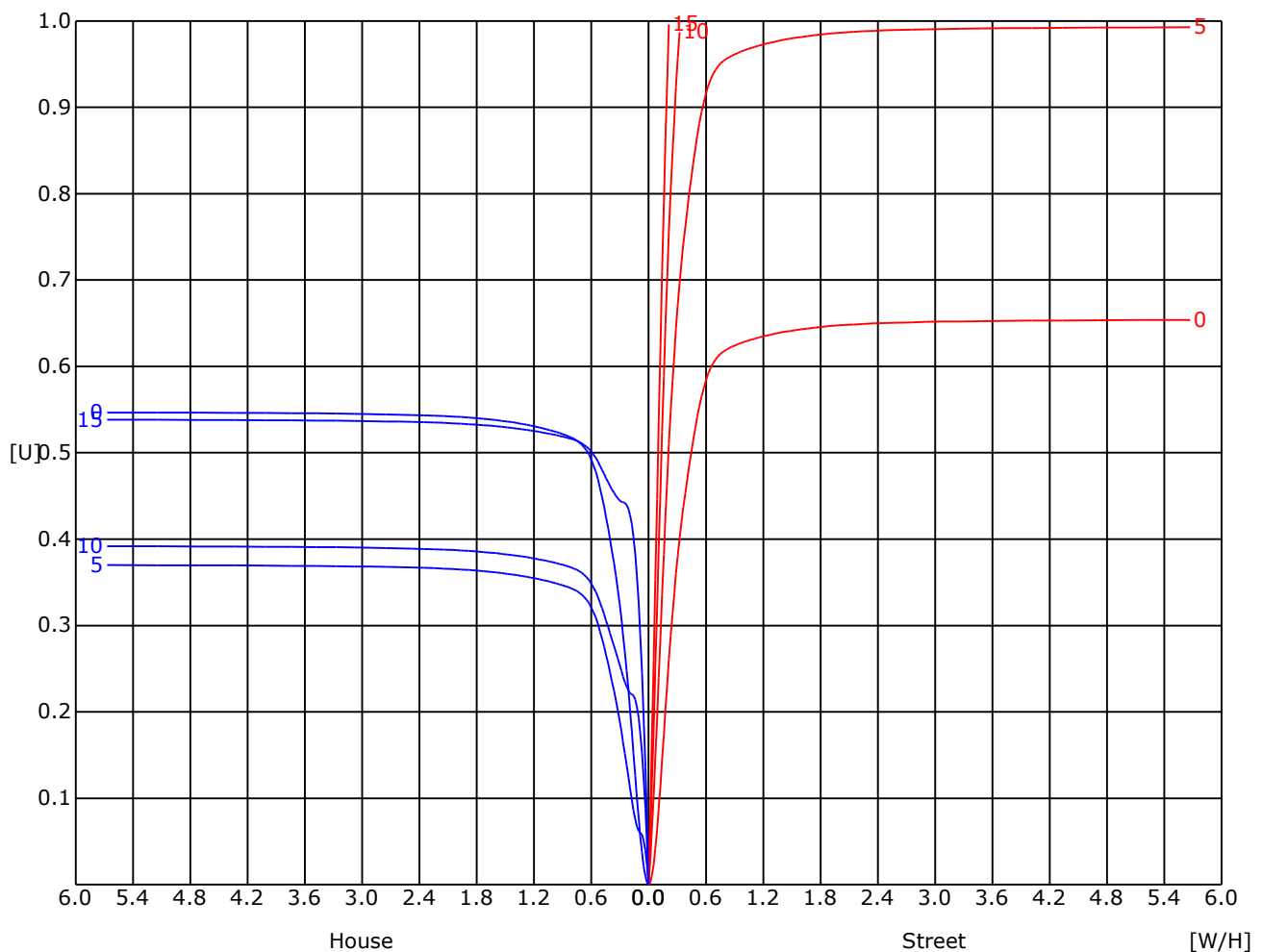
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UTILIZATION FACTOR DIAGRAM (ROAD)



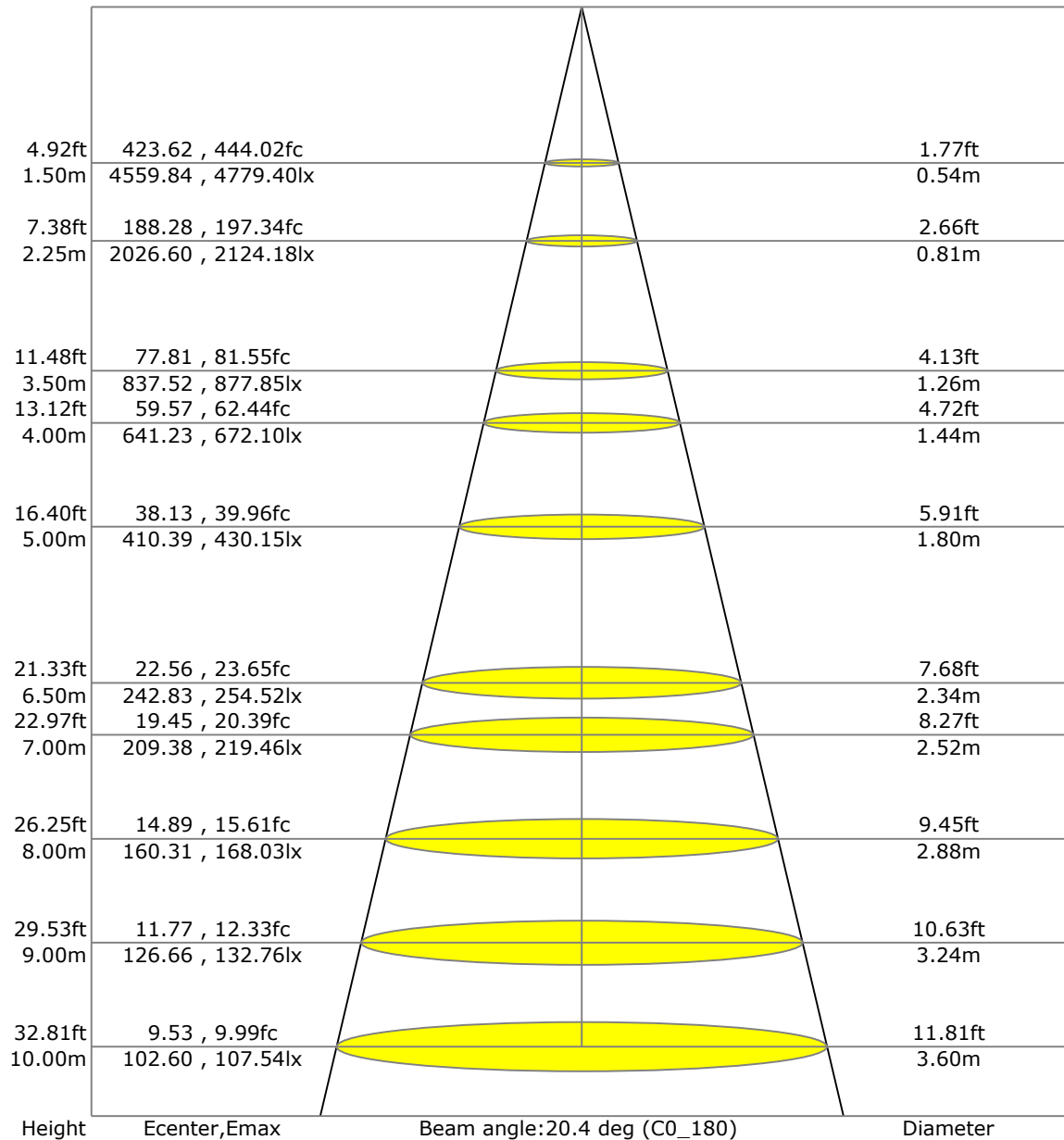
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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 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	8.01	8.07	8.21	8.26	8.50	8.43	8.49	8.63	8.68	8.92
	3H	8.06	8.12	8.27	8.32	8.56	8.45	8.51	8.65	8.70	8.95
	4H	8.06	8.12	8.27	8.32	8.57	8.44	8.50	8.65	8.70	8.95
	6H	8.05	8.11	8.26	8.31	8.56	8.42	8.49	8.64	8.69	8.94
	8H	8.04	8.10	8.26	8.31	8.56	8.41	8.48	8.63	8.68	8.93
	12H	8.03	8.09	8.25	8.30	8.56	8.40	8.47	8.63	8.67	8.93
4H	2H	8.62	8.68	8.83	8.88	9.13	9.51	9.57	9.72	9.77	10.02
	3H	8.73	8.79	8.95	9.00	9.25	9.59	9.65	9.81	9.86	10.11
	4H	8.74	8.80	8.97	9.02	9.28	9.58	9.65	9.81	9.86	10.12
	6H	8.73	8.79	8.97	9.01	9.28	9.56	9.62	9.80	9.85	10.11
	8H	8.72	8.78	8.96	9.01	9.27	9.55	9.61	9.79	9.84	10.11
	12H	8.70	8.77	8.95	9.00	9.27	9.53	9.60	9.79	9.83	10.10
8H	4H	8.61	8.67	8.83	8.88	9.13	9.74	9.80	9.96	10.01	10.26
	6H	8.71	8.77	8.97	9.01	9.28	9.82	9.88	10.08	10.12	10.40
	8H	8.70	8.75	8.96	9.00	9.28	9.81	9.87	10.07	10.11	10.39
	12H	8.68	8.74	8.95	8.99	9.27	9.79	9.85	10.06	10.10	10.38
12H	4H	8.71	8.77	8.96	9.01	9.28	9.85	9.91	10.10	10.14	10.42
	6H	8.69	8.75	8.96	9.00	9.28	9.82	9.88	10.09	10.13	10.41

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ZONAL LUMINOUS FLUX TABLE

[illegible]

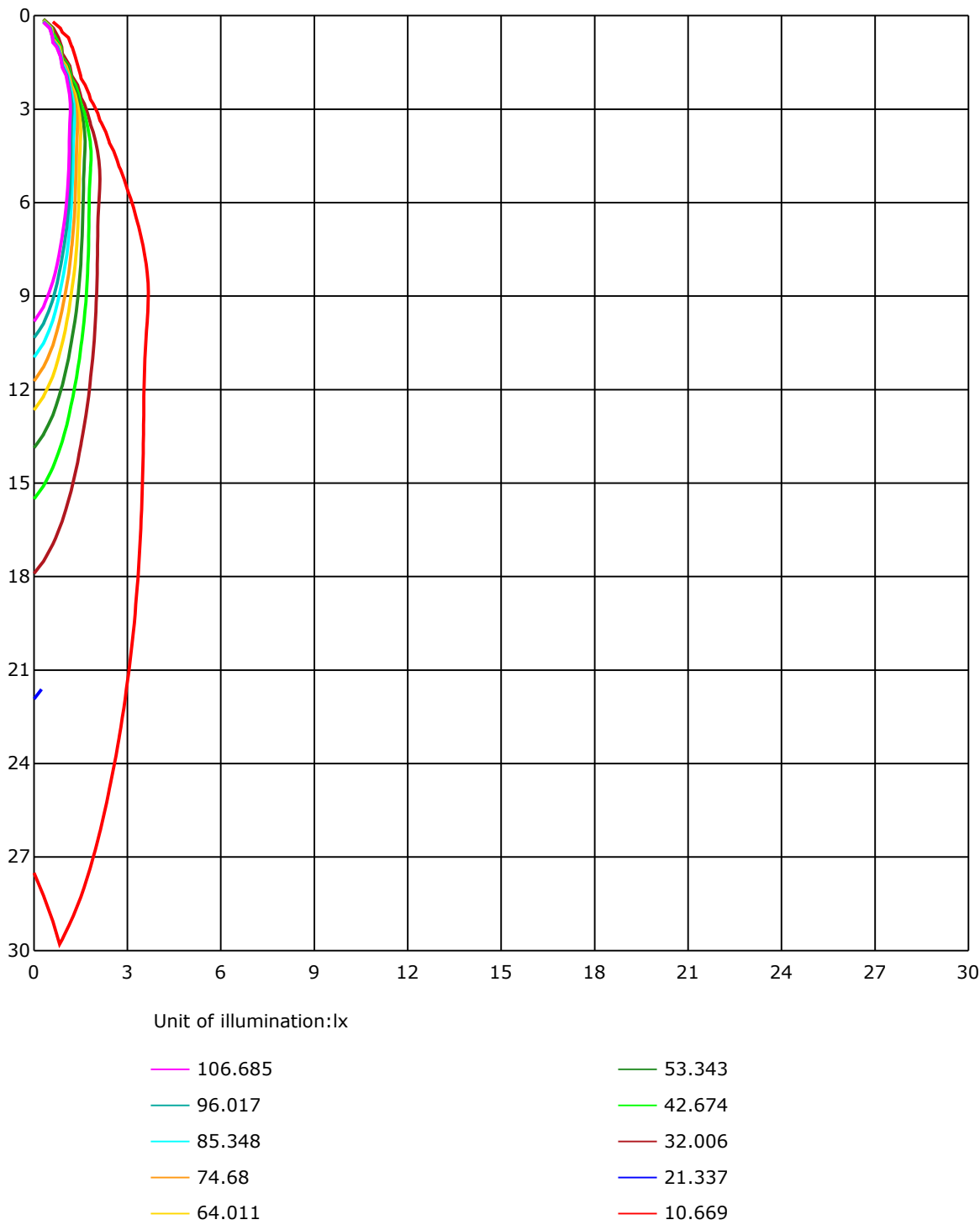
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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
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Test Speed: High
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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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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	10259.65	10533.96	10591.33	10563.04	10259.65	10533.96	10591.33	10563.04	10259.65	
G1	9811.61	10274.35	10593.83	10550.42	10554.27	10686.77	10470.19	10450.67	9811.61	
G2	9249.25	9818.15	10430.96	10422.75	10714.69	10682.5	10192.03	10215.91	9249.25	
G3	8607.96	9281.71	10129.33	10126.55	10753.64	10550.01	9781.93	9848.48	8607.96	
G4	7871.93	8593.44	9712.69	9717.05	10645.31	10250.6	9273.78	9334.95	7871.93	
G5	7103.47	7866.27	9149.17	9222.17	10424.19	9872.22	8588.16	8716.67	7103.47	
G6	6343.14	7110.8	8521.79	8607.4	10072.56	9310.1	7853.38	8022.23	6343.14	
G7	5655.94	6373.65	7802.55	7915.15	9598.79	8639.4	7117.85	7272.24	5655.94	
G8	5007.46	5633.35	7051.67	7194.23	8973.73	7910.19	6364.8	6538.66	5007.46	
G9	4421.59	4967.21	6304.27	6489.87	8294.92	7161.21	5630.15	5830.22	4421.59	
G10	3882.7	4360.28	5620.78	5819.55	7540.2	6361.13	4960.39	5162.73	3882.7	
G11	3406.23	3810.4	4948.1	5160.78	6796.14	5632.38	4340.66	4549.22	3406.23	
G12	2973.17	3314.64	4348.32	4579.87	6057.0	4952.92	3784.71	4009.07	2973.17	
G13	2607.4	2892.66	3791.57	4045.76	5361.82	4349.01	3282.36	3519.02	2607.4	
G14	2296.27	2520.17	3309.63	3562.19	4733.79	3783.32	2853.99	3091.25	2296.27	
G15	2027.01	2214.09	2888.54	3128.3	4174.54	3288.62	2480.38	2711.75	2027.01	
G16	1805.42	1968.16	2527.27	2753.3	3673.64	2849.95	2169.43	2378.49	1805.42	
G17	1624.6	1758.4	2226.15	2419.67	3228.43	2486.73	1904.48	2093.28	1624.6	
G18	1481.21	1591.4	1980.63	2136.45	2844.48	2173.0	1698.25	1859.45	1481.21	
G19	1369.16	1461.54	1778.06	1900.26	2507.46	1918.95	1537.09	1666.66	1369.16	
G20	1273.44	1351.63	1615.7	1710.26	2212.0	1718.37	1409.65	1516.41	1273.44	
G21	1186.53	1261.24	1480.09	1555.27	1969.13	1554.81	1302.38	1393.46	1186.53	
G22	1105.14	1183.94	1378.3	1431.72	1765.26	1425.0	1212.97	1295.19	1105.14	
G23	1019.35	1110.24	1290.55	1323.2	1604.85	1322.65	1130.84	1204.9	1019.35	
G24	925.44	1042.58	1214.64	1231.75	1466.46	1232.07	1054.13	1119.94	925.44	
G25	825.77	966.57	1141.5	1150.13	1354.55	1156.11	967.59	1023.85	825.77	
G26	722.49	874.89	1074.95	1071.57	1254.2	1077.46	873.26	927.29	722.49	
G27	614.3	776.85	995.56	977.01	1165.11	991.71	767.57	822.11	614.3	
G28	512.13	673.71	905.54	875.77	1076.48	894.6	661.46	715.12	512.13	
G29	411.03	566.86	802.58	771.7	980.34	786.31	552.57	607.76	411.03	
G30	325.56	468.68	699.31	667.35	876.83	674.96	447.39	506.43	325.56	
G31	259.8	371.06	596.26	559.34	769.94	566.11	359.18	408.53	259.8	
G32	205.54	291.71	495.81	457.92	659.24	460.93	285.12	329.27	205.54	
G33	162.73	227.47	400.18	370.17	552.85	369.34	222.05	262.03	162.73	
G34	130.04	177.95	319.3	297.18	449.76	291.8	173.12	210.22	130.04	
G35	106.48	139.96	253.17	235.27	363.5	231.14	136.39	167.74	106.48	
G36	89.46	112.83	202.48	188.15	292.08	184.16	109.91	138.57	89.46	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	77.45	92.57	160.0	151.51	234.48	147.15	90.53	113.95	77.45	
G38	69.33	79.63	130.36	122.99	187.96	120.39	77.68	99.06	69.33	
G39	65.02	70.17	108.84	100.91	153.18	102.44	69.38	86.58	65.02	
G40	61.73	65.53	93.54	86.07	126.98	88.9	64.56	78.28	61.73	
G41	59.78	61.45	83.25	76.15	108.71	81.25	60.71	72.86	59.78	
G42	56.21	59.22	77.36	69.29	93.91	74.67	58.43	69.75	56.21	
G43	54.54	56.44	73.14	64.05	84.36	70.26	55.37	66.6	54.54	
G44	52.82	54.31	69.52	60.94	78.79	66.78	54.82	64.6	52.82	
G45	51.57	52.27	67.71	58.11	74.11	64.09	52.03	60.75	51.57	
G46	49.39	50.23	64.05	56.44	69.84	61.96	50.69	58.76	49.39	
G47	47.91	48.79	62.56	53.98	67.06	59.83	49.02	56.3	47.91	
G48	45.96	47.35	59.5	51.99	64.6	57.46	47.12	55.05	45.96	
G49	44.38	46.38	57.46	50.41	62.05	55.65	45.87	52.5	44.38	
G50	42.67	43.87	54.77	48.28	59.36	53.47	44.71	52.36	42.67	
G51	41.51	44.38	53.52	46.93	57.6	52.08	42.25	49.44	41.51	
G52	40.25	40.81	51.2	44.98	55.23	51.11	41.83	47.4	40.25	
G53	37.94	39.88	49.21	43.73	53.29	48.09	39.56	45.77	37.94	
G54	36.82	38.4	48.97	43.04	51.29	46.33	37.98	44.66	36.82	
G55	35.52	36.45	46.01	40.21	49.9	44.61	36.36	42.71	35.52	
G56	32.51	34.69	43.27	38.31	47.95	43.13	34.74	40.07	32.51	
G57	31.44	33.11	41.6	37.56	46.01	41.69	33.02	37.94	31.44	
G58	28.99	31.16	40.02	36.68	44.2	39.61	31.54	37.1	28.99	
G59	27.04	29.26	37.84	33.07	42.71	38.45	29.59	35.06	27.04	
G60	25.04	27.55	35.94	32.42	41.18	36.03	27.92	31.77	25.04	
G61	22.82	26.34	34.27	30.42	38.96	33.99	26.2	30.24	22.82	
G62	20.41	23.33	32.7	28.89	36.54	32.09	24.3	28.99	20.41	
G63	19.11	21.1	30.1	26.11	34.74	30.7	21.29	26.85	19.11	
G64	15.54	19.9	28.1	24.02	32.93	28.15	20.13	23.28	15.54	
G65	13.87	17.99	25.88	22.68	30.75	25.69	17.44	21.29	13.87	
G66	12.15	14.33	25.46	20.73	28.01	23.28	14.38	18.88	12.15	
G67	11.92	12.1	21.98	17.85	26.76	21.05	12.38	16.46	11.92	
G68	10.94	11.41	18.6	15.3	24.72	17.85	12.01	15.54	10.94	
G69	10.81	11.36	16.05	12.66	21.94	16.28	11.41	14.52	10.81	
G70	9.46	9.88	15.4	12.89	18.13	15.07	10.25	14.61	9.46	
G71	8.07	10.16	14.19	11.13	17.16	15.26	10.02	13.45	8.07	
G72	7.98	8.21	13.22	10.71	15.81	13.82	9.32	12.06	7.98	
G73	6.21	8.3	12.71	9.88	15.81	13.82	8.9	11.13	6.21	

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