

Report No.:

Test Time: 2024/9/20 11:40:36

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H89-38°-15W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 70 mm

Voltage(V): 219.90 V
Current(A): 0.0720 A
Power(W): 15.07 W
Power Factor: 0.9500
Lamp Luminous Flux: 1447.48

Photometric Results

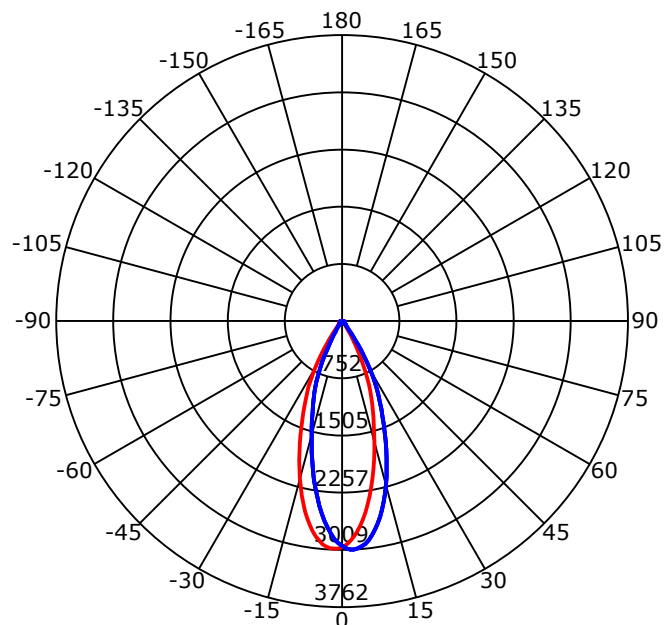
CIE Class: Direct
Luminaire Luminous Flux: 1447.484 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.05 lm/W
Beam Angle(50%) C0-180,C90-270: 37.3,37.0
Field Angle(10%) C0-180,C90-270: 64.9,64.6
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 3009.39 cd
Max.Intensity Angle: C=135 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2977.07 cd
Effective Luminous Flux: 1257.07 lm
ERP(ϕ use)(120deg): 1405.23 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.3 deg,37.0 deg

C0-180 — C90-270 —

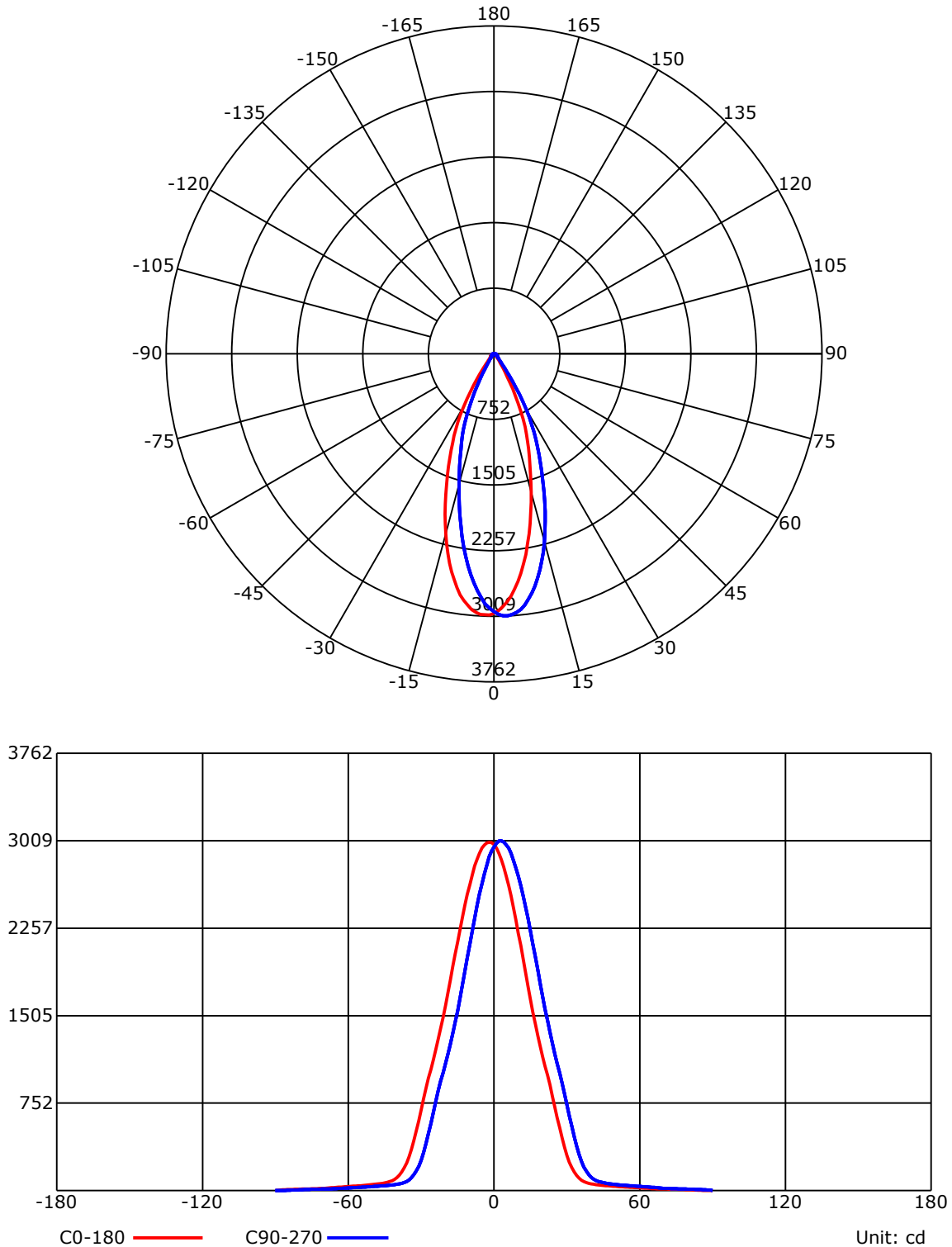
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/20 11:40:36

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



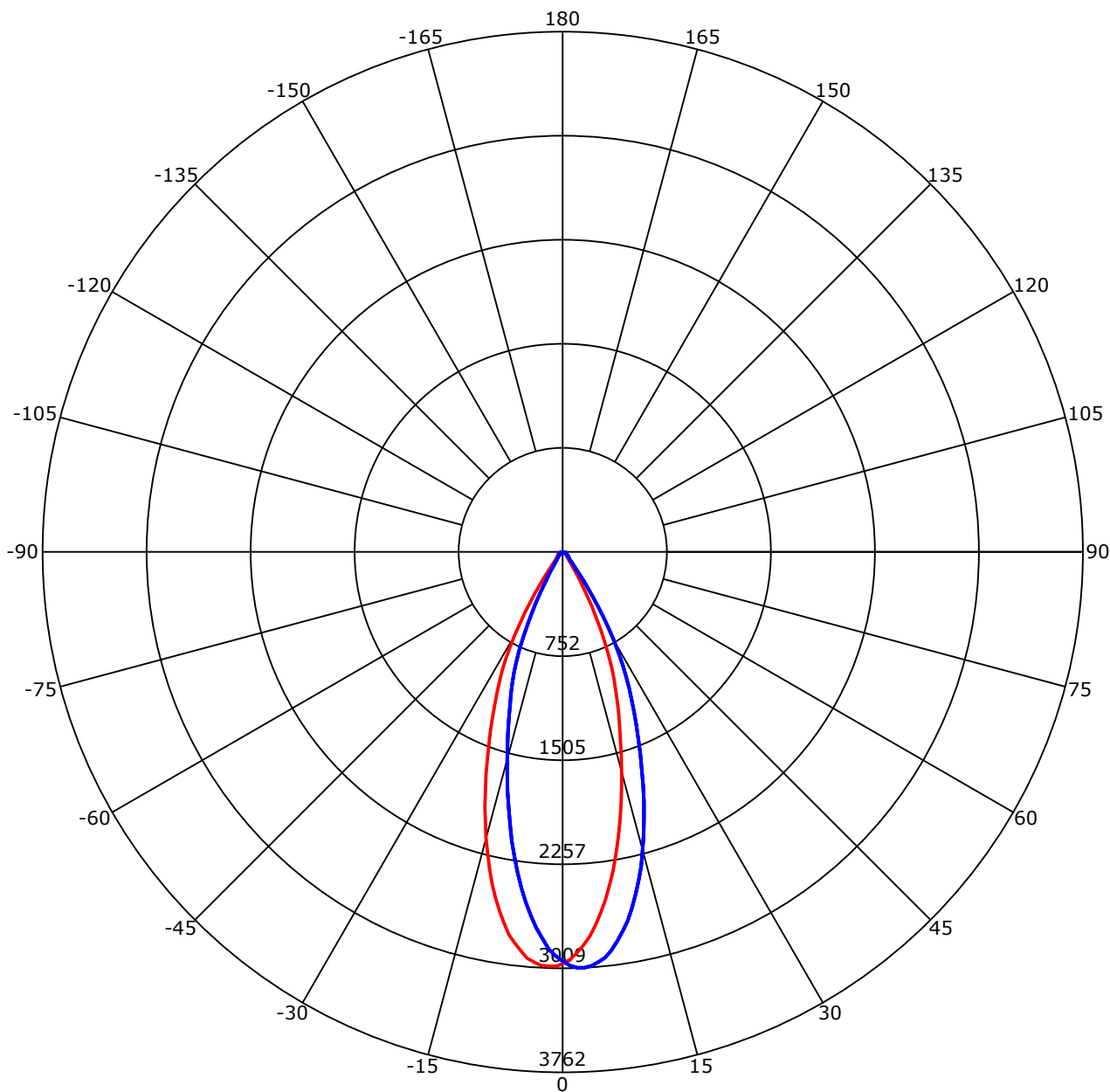
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

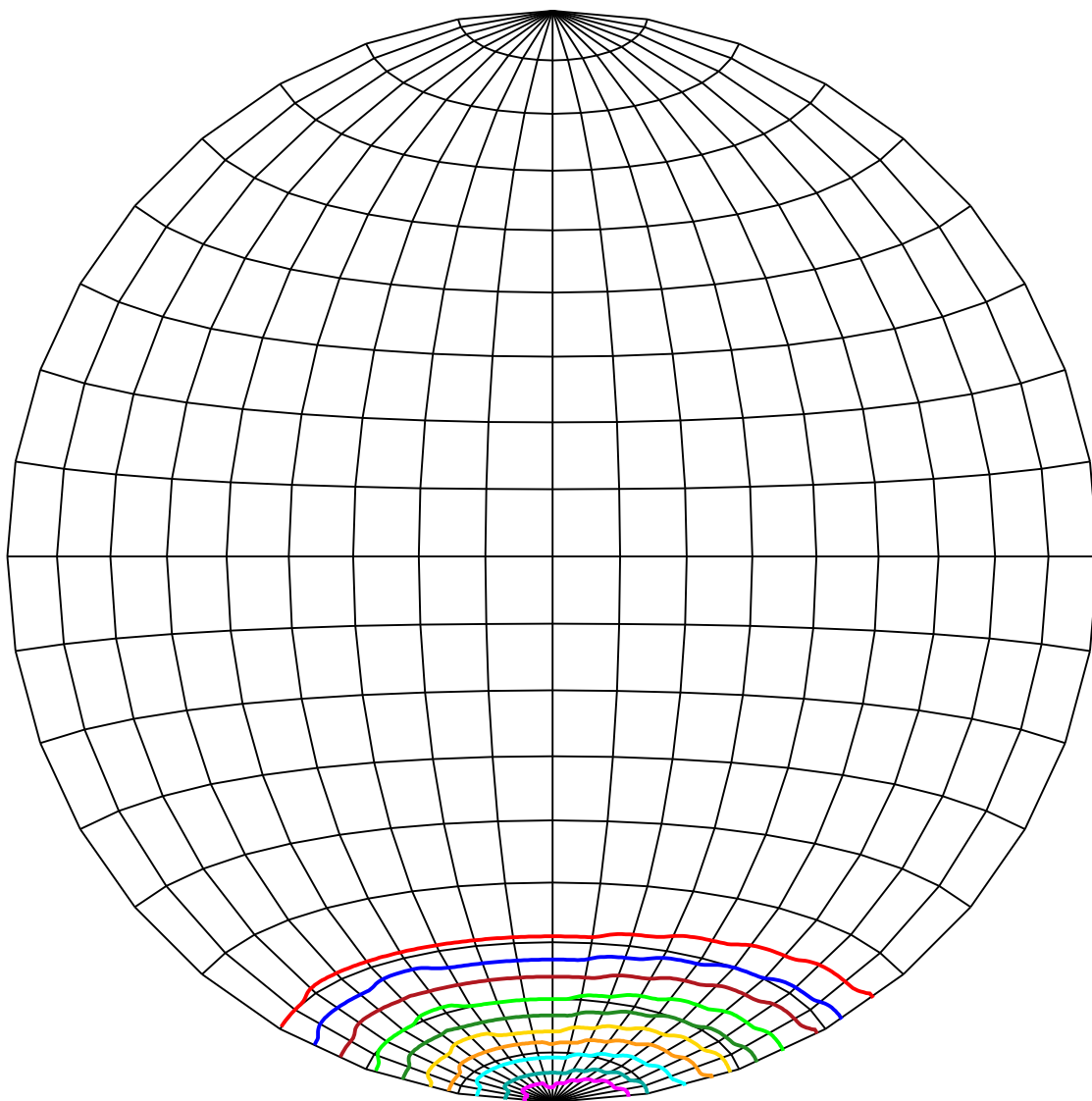
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 3009.391 cd

2858.922(95%Imax)	1504.696(50%Imax)
2708.452(90%Imax)	1203.757(40%Imax)
2407.513(80%Imax)	902.817(30%Imax)
2106.574(70%Imax)	601.878(20%Imax)
1805.635(60%Imax)	300.939(10%Imax)

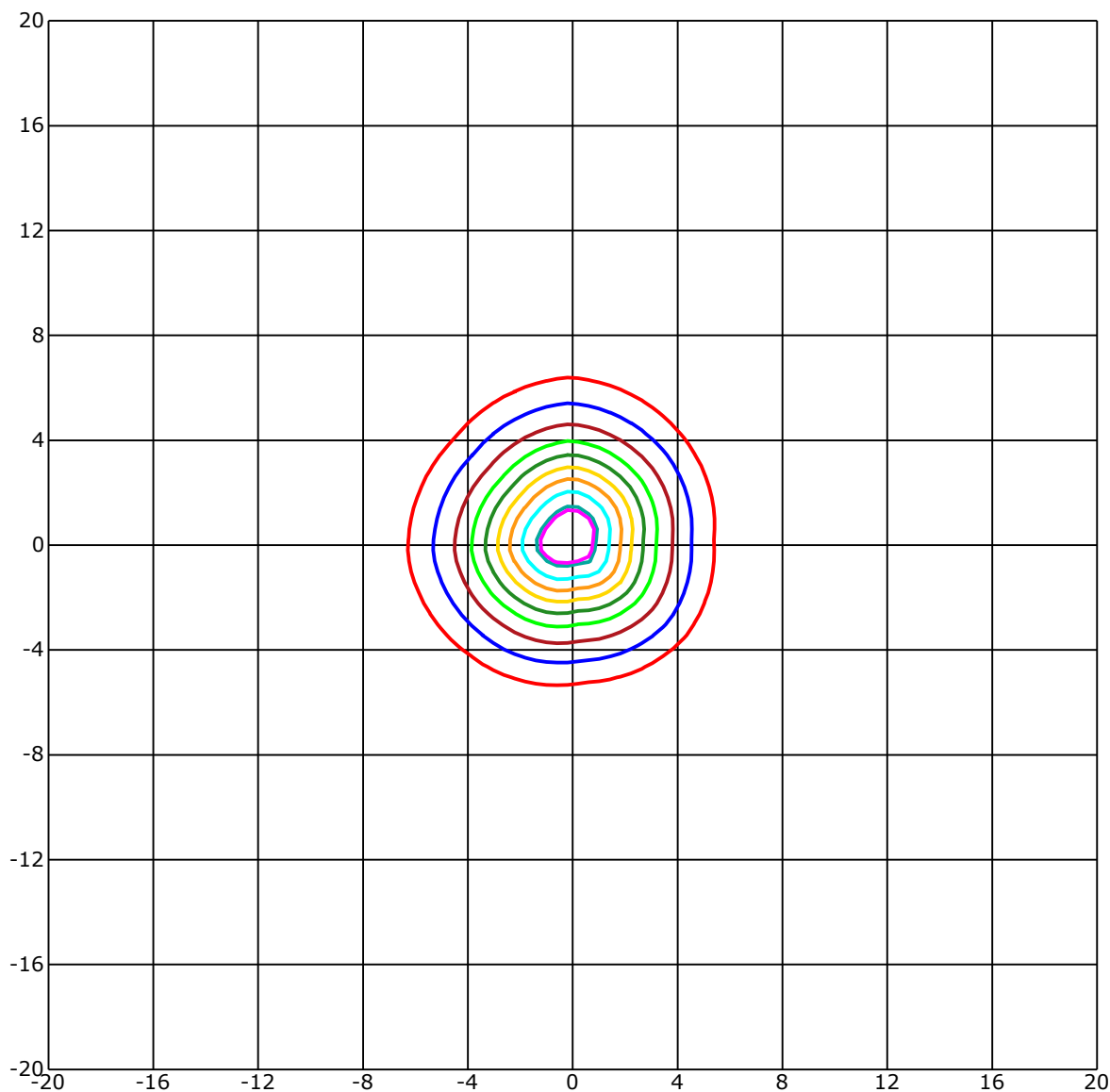
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ISOLX DIAGRAM



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

27.674(92%Emax)	15.04(50%Emax)
27.072(90%Emax)	12.032(40%Emax)
24.064(80%Emax)	9.024(30%Emax)
21.056(70%Emax)	6.016(20%Emax)
18.048(60%Emax)	3.008(10%Emax)

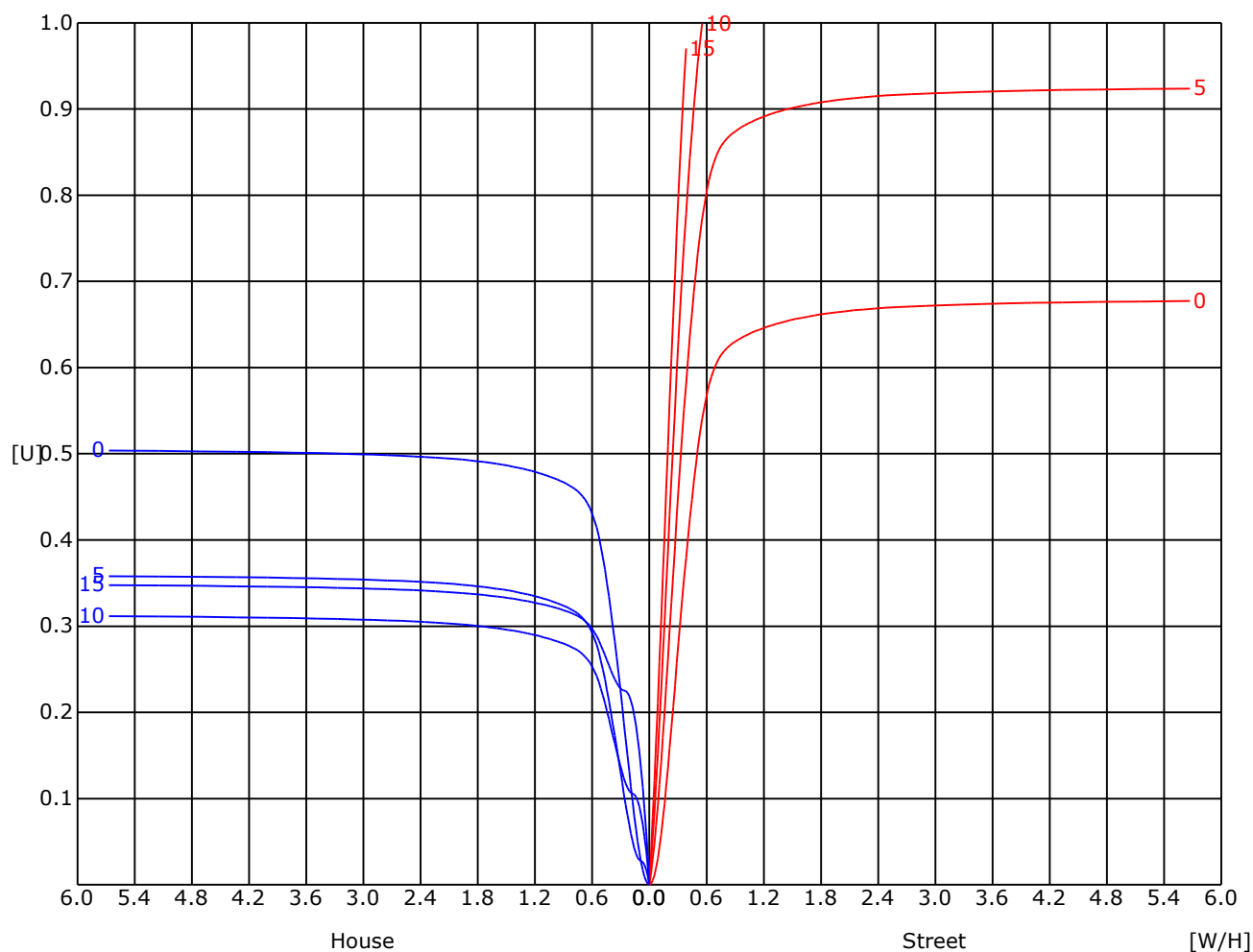
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UTILIZATION FACTOR DIAGRAM (ROAD)



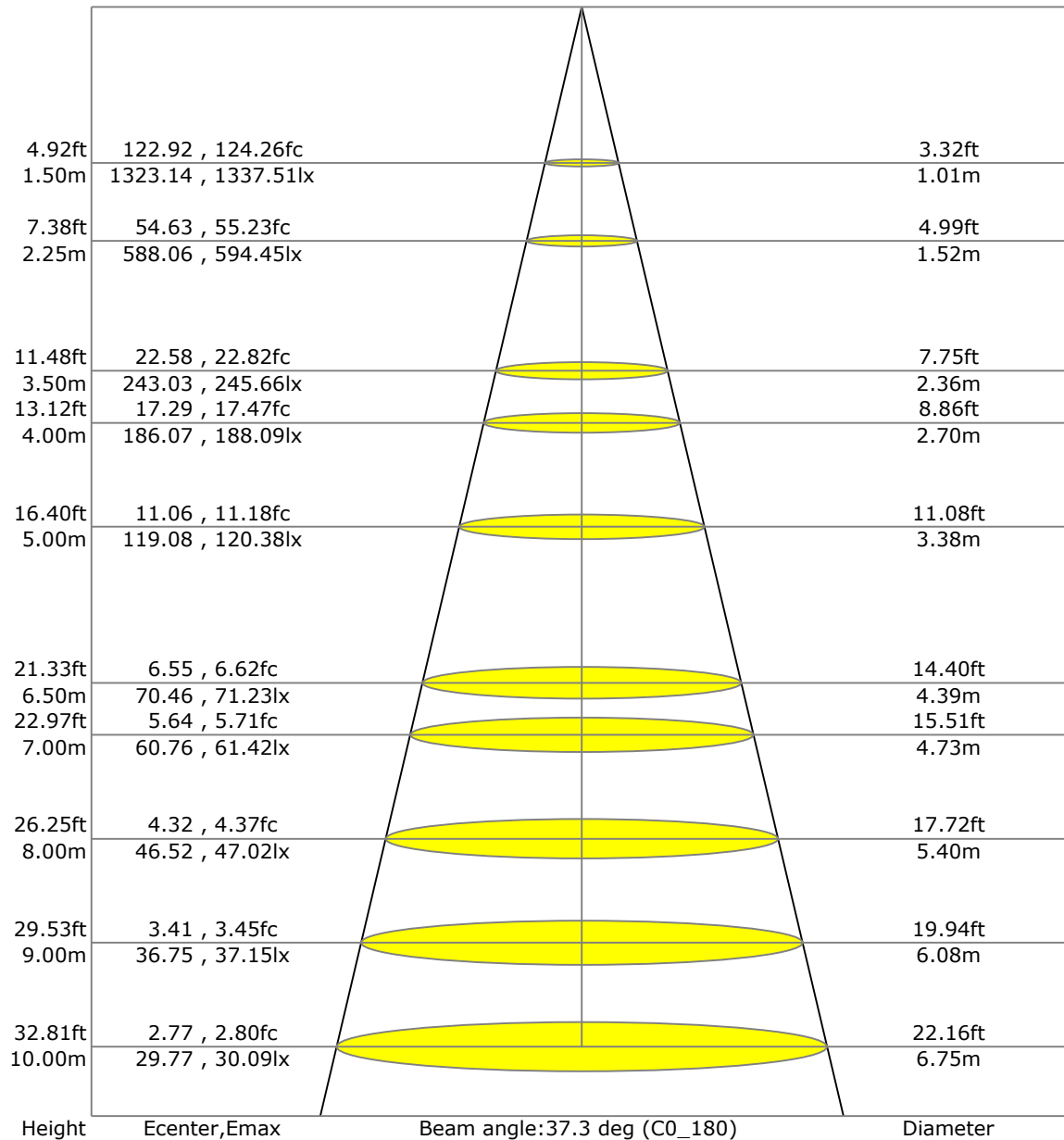
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Temperature: 25
Operators: QC01
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
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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	11.72	11.78	11.92	11.96	12.21	12.13	12.18	12.33	12.37	12.61
	3H	11.80	11.85	12.01	12.05	12.29	12.17	12.22	12.38	12.42	12.66
	4H	11.81	11.87	12.02	12.06	12.31	12.17	12.23	12.38	12.42	12.67
	6H	11.81	11.86	12.02	12.06	12.31	12.16	12.22	12.38	12.42	12.67
	8H	11.80	11.85	12.02	12.05	12.31	12.15	12.21	12.37	12.41	12.66
	12H	11.79	11.84	12.01	12.05	12.30	12.14	12.20	12.36	12.40	12.66
4H	2H	12.71	12.77	12.92	12.96	13.21	13.51	13.57	13.72	13.76	14.01
	3H	12.95	13.00	13.17	13.21	13.47	13.70	13.75	13.92	13.96	14.21
	4H	13.03	13.08	13.26	13.29	13.55	13.75	13.80	13.98	14.01	14.27
	6H	13.07	13.12	13.31	13.34	13.61	13.76	13.82	14.00	14.04	14.30
	8H	13.08	13.13	13.32	13.35	13.62	13.76	13.81	14.00	14.04	14.30
	12H	13.07	13.12	13.32	13.35	13.62	13.75	13.80	14.00	14.03	14.30
8H	4H	13.08	13.14	13.30	13.34	13.60	14.18	14.23	14.40	14.44	14.69
	6H	13.75	13.80	14.01	14.04	14.31	14.79	14.84	15.05	15.08	15.35
	8H	13.80	13.84	14.06	14.09	14.37	14.81	14.86	15.07	15.10	15.38
	12H	13.82	13.87	14.09	14.12	14.40	14.81	14.85	15.08	15.11	15.39
12H	4H	13.71	13.76	13.96	13.99	14.26	15.06	15.11	15.31	15.34	15.61
	6H	13.88	13.93	14.14	14.18	14.45	15.23	15.27	15.49	15.52	15.80

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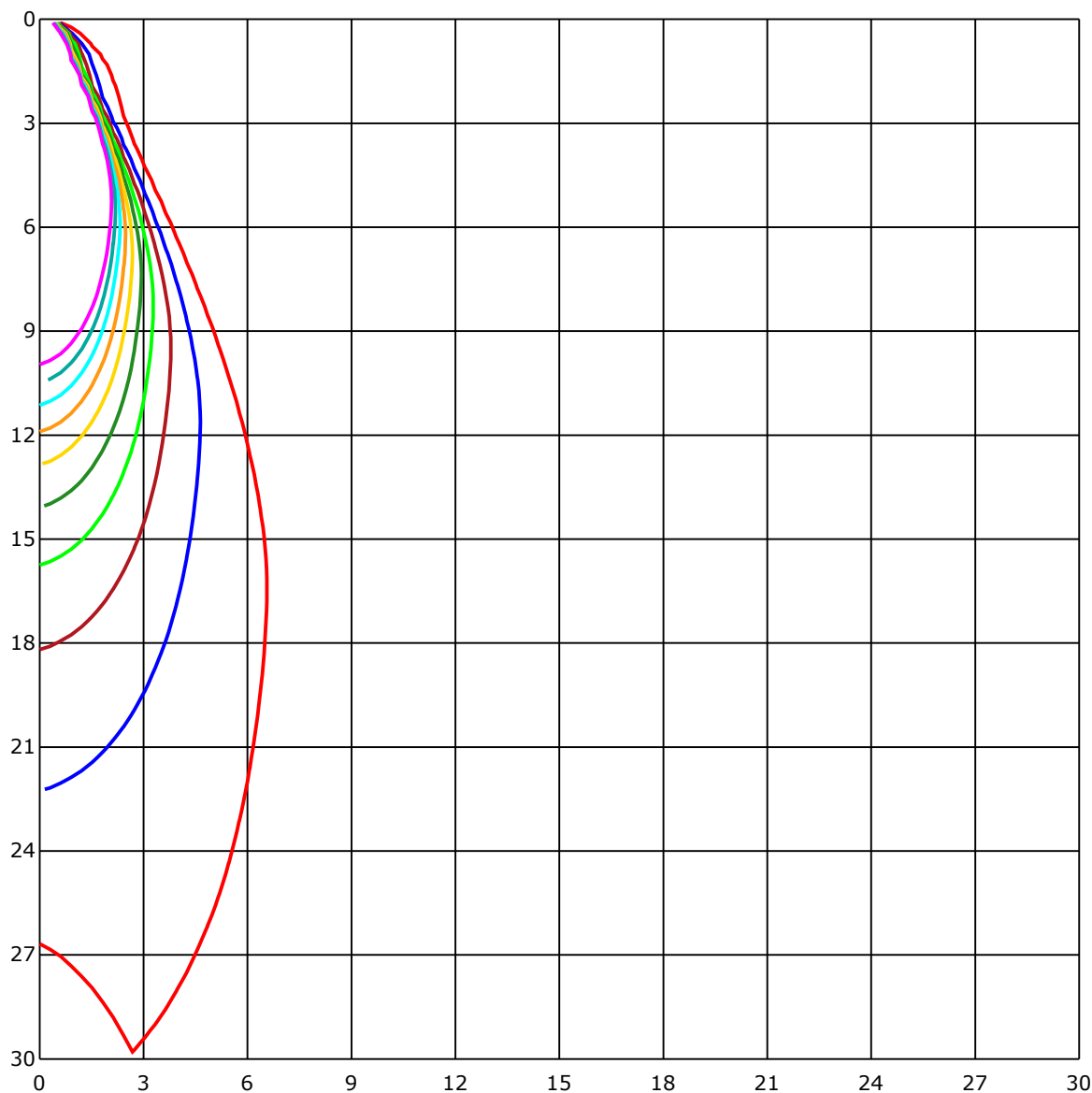
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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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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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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Test Speed: High
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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	2977.07	2995.34	2956.06	2999.93	2977.07	2995.34	2956.06	2999.93	2977.07	
G1	2946.27	3003.59	2988.8	3009.39	2994.74	2987.22	2920.07	2974.15	2946.27	
G2	2900.08	2993.99	3007.49	3003.87	2995.2	2953.0	2873.23	2939.74	2900.08	
G3	2848.24	2969.97	3009.25	2983.38	2992.19	2916.31	2798.84	2890.53	2848.24	
G4	2784.61	2938.9	2997.38	2956.85	2972.52	2865.3	2725.48	2834.69	2784.61	
G5	2709.48	2892.39	2975.03	2921.37	2947.02	2803.39	2641.07	2764.8	2709.48	
G6	2624.01	2841.6	2946.23	2869.24	2899.81	2735.77	2551.1	2686.89	2624.01	
G7	2534.59	2770.6	2900.13	2804.97	2849.12	2652.99	2449.03	2599.94	2534.59	
G8	2431.08	2691.76	2839.33	2742.36	2793.14	2566.18	2341.16	2502.18	2431.08	
G9	2328.41	2610.88	2775.29	2658.0	2714.12	2479.41	2232.31	2398.76	2328.41	
G10	2214.51	2517.34	2706.65	2571.74	2631.84	2372.6	2119.3	2291.03	2214.51	
G11	2105.61	2422.22	2620.76	2474.49	2547.58	2268.9	2001.5	2180.0	2105.61	
G12	1988.89	2313.29	2531.58	2378.91	2453.48	2155.93	1885.75	2062.72	1988.89	
G13	1872.76	2212.0	2437.3	2275.49	2353.22	2043.89	1772.91	1947.43	1872.76	
G14	1755.98	2096.99	2342.5	2163.82	2246.69	1932.17	1657.9	1837.47	1755.98	
G15	1644.13	1984.85	2233.06	2052.14	2140.91	1824.07	1547.39	1724.91	1644.13	
G16	1535.0	1869.28	2122.45	1944.74	2030.95	1714.9	1445.54	1614.77	1535.0	
G17	1430.56	1755.38	2009.29	1834.59	1924.38	1603.78	1349.59	1507.46	1430.56	
G18	1332.39	1643.11	1900.26	1718.33	1808.76	1501.61	1258.46	1406.87	1332.39	
G19	1242.51	1531.11	1782.51	1607.58	1701.31	1402.6	1173.04	1313.0	1242.51	
G20	1154.39	1427.13	1671.77	1505.37	1593.62	1309.11	1094.75	1223.59	1154.39	
G21	1071.98	1329.14	1563.25	1399.21	1493.54	1219.78	1015.68	1139.32	1071.98	
G22	991.89	1235.37	1461.91	1304.0	1392.3	1133.99	940.69	1061.32	991.89	
G23	909.71	1144.52	1363.6	1212.97	1301.5	1053.29	857.96	983.45	909.71	
G24	813.62	1057.14	1269.96	1127.17	1212.27	973.94	766.18	902.9	813.62	
G25	721.66	974.13	1178.56	1043.05	1125.97	888.1	673.98	810.14	721.66	
G26	628.16	884.72	1095.45	963.56	1045.27	797.07	580.68	716.84	628.16	
G27	538.8	791.92	1010.77	875.72	968.29	706.22	489.45	622.74	538.8	
G28	453.09	695.97	922.98	784.27	881.15	612.63	405.61	530.77	453.09	
G29	373.93	602.52	832.36	689.47	791.22	524.47	327.74	443.73	373.93	
G30	302.0	513.52	740.16	597.97	696.62	440.71	261.98	364.52	302.0	
G31	244.63	432.32	644.35	507.73	603.86	363.36	210.27	295.0	244.63	
G32	197.1	355.47	550.67	424.02	512.41	297.04	169.13	238.28	197.1	
G33	158.98	290.08	461.95	347.91	429.72	241.67	136.3	191.53	158.98	
G34	129.57	235.45	382.42	282.52	354.92	196.91	111.44	154.62	129.57	
G35	107.13	191.12	311.46	226.36	291.75	161.62	92.29	126.42	107.13	
G36	89.51	155.45	252.15	180.03	237.72	133.8	78.89	105.78	89.51	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	77.22	127.49	203.73	144.74	194.22	113.58	69.7	91.18	77.22	
G38	68.45	105.55	167.14	117.33	159.67	97.34	62.98	80.37	68.45	
G39	62.65	89.23	137.6	96.37	132.77	85.75	58.2	73.37	62.65	
G40	58.02	76.94	115.24	82.18	112.32	76.98	54.54	67.76	58.02	
G41	54.21	68.78	99.11	72.53	97.07	70.72	51.48	63.3	54.21	
G42	51.2	63.07	87.14	66.5	85.56	65.71	49.11	59.73	51.2	
G43	48.28	58.76	78.51	61.68	77.17	61.87	46.42	56.53	48.28	
G44	46.01	55.0	72.39	58.25	70.82	58.57	44.38	53.61	46.01	
G45	44.06	52.22	67.89	55.23	66.41	55.74	42.43	51.25	44.06	
G46	42.25	49.58	63.95	52.87	62.56	53.05	40.67	49.16	42.25	
G47	40.58	47.35	60.85	50.64	59.41	50.78	39.05	46.79	40.58	
G48	39.14	45.08	58.11	48.18	56.67	48.32	37.66	44.85	39.14	
G49	37.52	43.45	55.47	46.47	54.4	46.42	36.13	42.85	37.52	
G50	36.03	41.88	53.19	44.71	51.89	44.47	34.92	41.32	36.03	
G51	34.78	40.35	51.01	42.9	49.81	42.99	33.48	39.79	34.78	
G52	33.44	38.58	49.3	41.55	47.63	41.32	32.19	38.45	33.44	
G53	32.23	37.33	46.98	40.07	45.87	39.56	30.89	36.82	32.23	
G54	30.98	35.9	45.22	38.58	44.15	38.12	29.77	35.43	30.98	
G55	29.77	34.6	43.73	37.19	42.62	36.78	28.52	34.13	29.77	
G56	28.57	33.44	41.88	36.03	40.95	35.43	27.36	32.83	28.57	
G57	27.36	31.95	40.63	34.74	39.33	33.81	26.39	31.44	27.36	
G58	26.25	30.89	39.1	33.53	38.21	32.65	25.41	30.01	26.25	
G59	25.0	29.5	37.89	32.19	36.64	31.26	24.16	28.8	25.0	
G60	23.74	28.47	36.36	30.93	35.34	29.87	23.05	27.45	23.74	
G61	22.54	27.18	34.83	29.63	33.85	28.66	21.8	26.16	22.54	
G62	21.47	25.74	33.44	28.34	32.51	27.32	20.82	25.04	21.47	
G63	20.22	24.53	31.77	26.76	31.07	25.97	19.66	23.88	20.22	
G64	18.64	22.91	30.24	25.32	29.45	24.72	18.18	22.59	18.64	
G65	16.83	21.66	28.75	23.93	28.06	23.19	16.6	21.01	16.83	
G66	15.4	20.22	27.22	22.49	26.62	21.43	15.77	19.34	15.4	
G67	14.93	18.41	25.55	20.68	25.0	19.48	15.03	18.5	14.93	
G68	14.52	16.37	23.88	18.74	23.42	18.46	14.61	17.76	14.52	
G69	14.14	15.21	21.52	16.56	21.15	17.9	14.33	17.39	14.14	
G70	13.68	14.75	19.43	15.4	19.06	17.34	13.73	16.74	13.68	
G71	13.22	14.33	18.27	14.79	18.09	16.74	13.12	16.14	13.22	
G72	12.66	14.01	17.9	14.52	17.67	16.05	12.61	15.44	12.66	
G73	12.15	13.5	17.11	13.82	17.07	15.44	12.06	14.98	12.15	

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G Range: 0 - 90 Deg

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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