

Report No.:

Test Time: 2024/9/18 16:41:04

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-2F-60°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.1400 A
Power(W): 29.37 W
Power Factor: 0.9480
Lamp Luminous Flux: 2911.76

Photometric Results

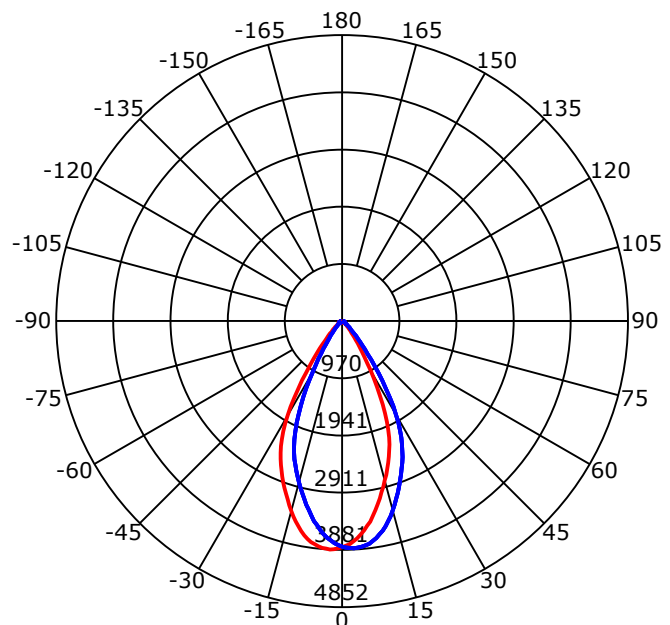
CIE Class: Direct
Luminaire Luminous Flux: 2911.755 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 99.14 lm/W
Beam Angle(50%) C0-180,C90-270: 52.8,53.0
Field Angle(10%) C0-180,C90-270: 78.2,78.9
S/MH C0-180,C90-270: 0.808,0.808

Max. Intensity: 3881.22 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3836.51 cd
Effective Luminous Flux: 2630.08 lm
ERP(ϕ use)(120deg): 2861.04 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.8 deg,53.0 deg

C0-180 — C90-270 —

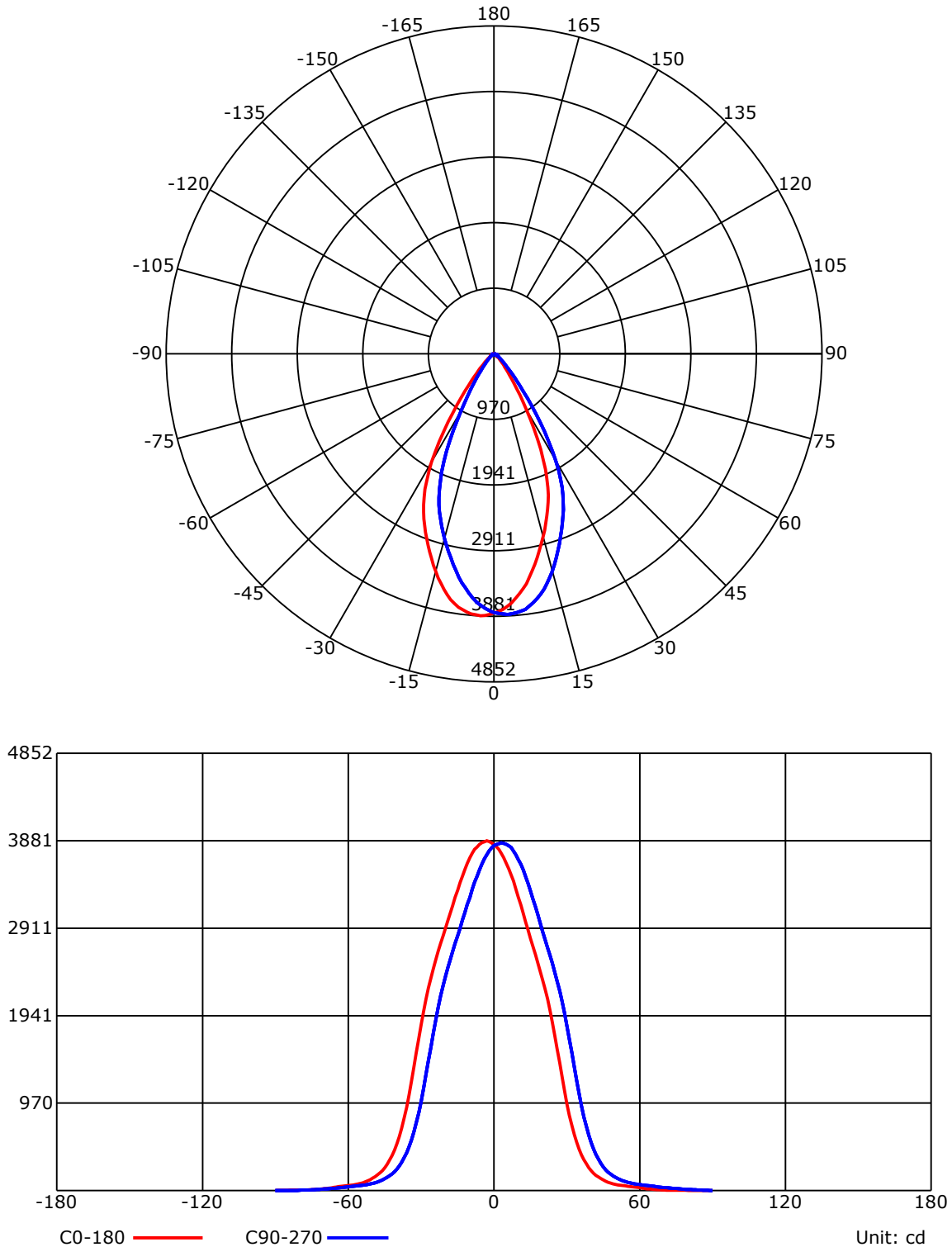
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/18 16:41:04

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



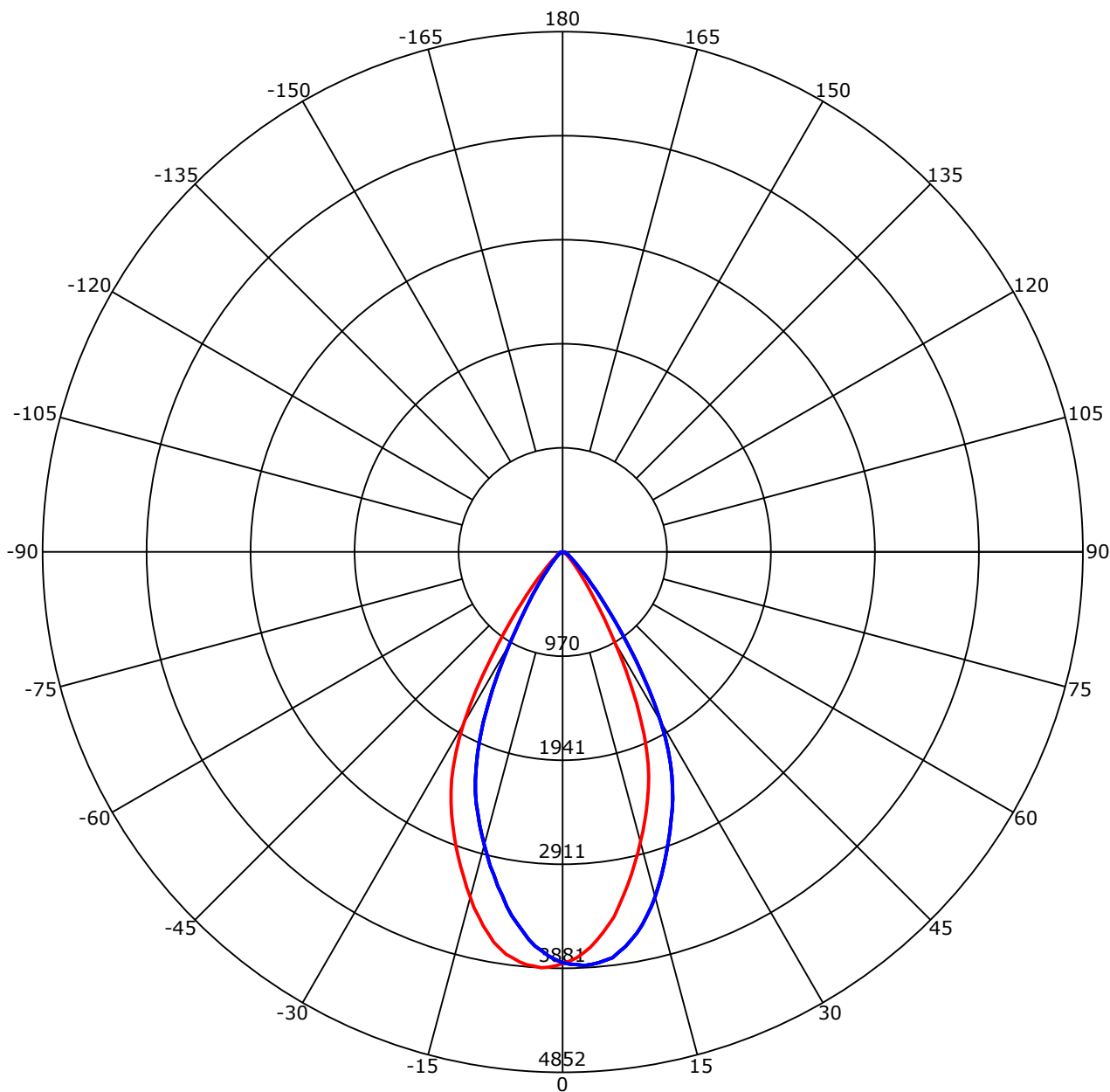
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

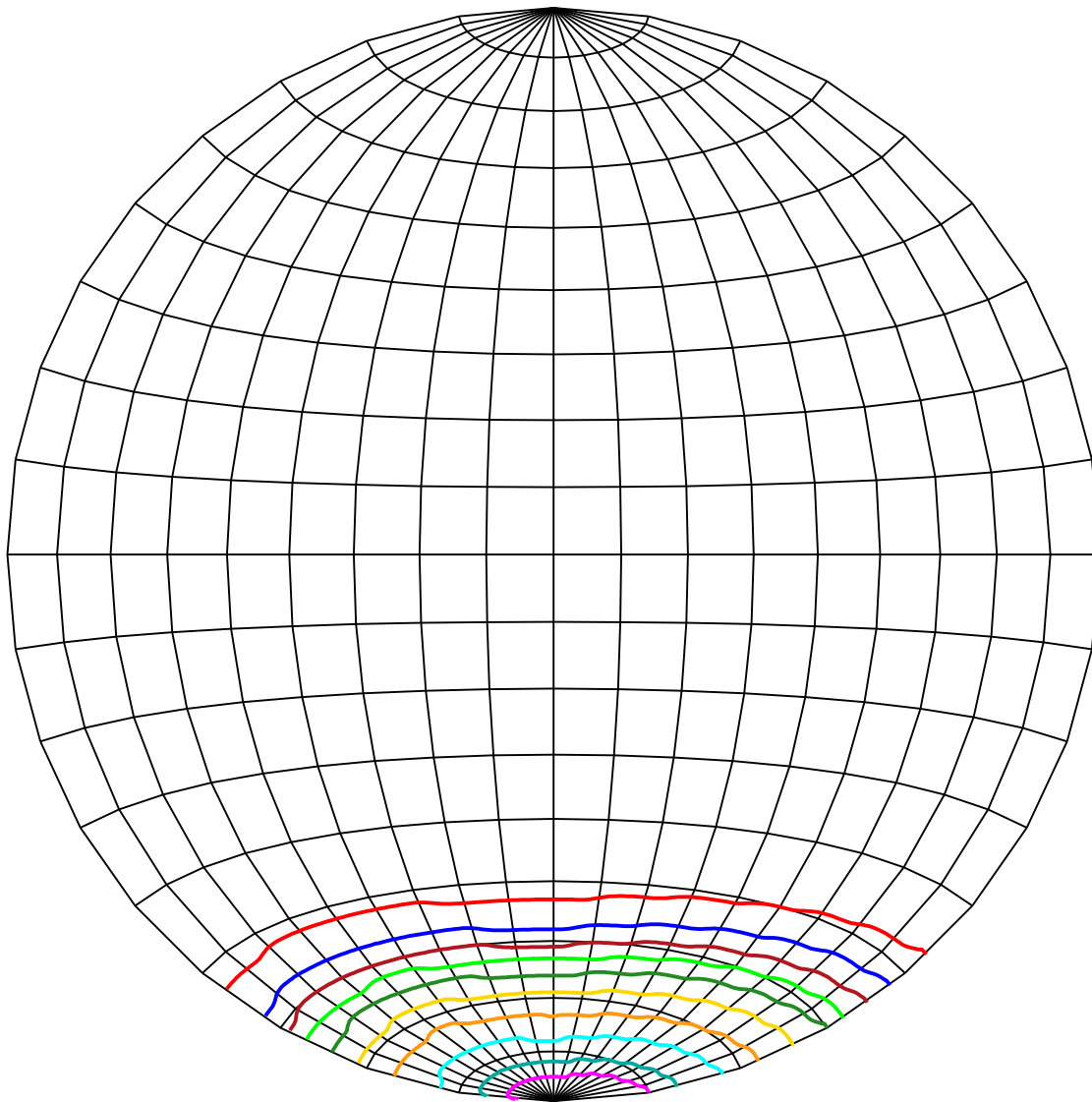
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 3881.216 cd

3687.155(95%I _{max})	1940.608(50%I _{max})
3493.094(90%I _{max})	1552.486(40%I _{max})
3104.973(80%I _{max})	1164.365(30%I _{max})
2716.851(70%I _{max})	776.243(20%I _{max})
2328.729(60%I _{max})	388.122(10%I _{max})

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Test Speed: High

Temperature: 25

Operators: QC01

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

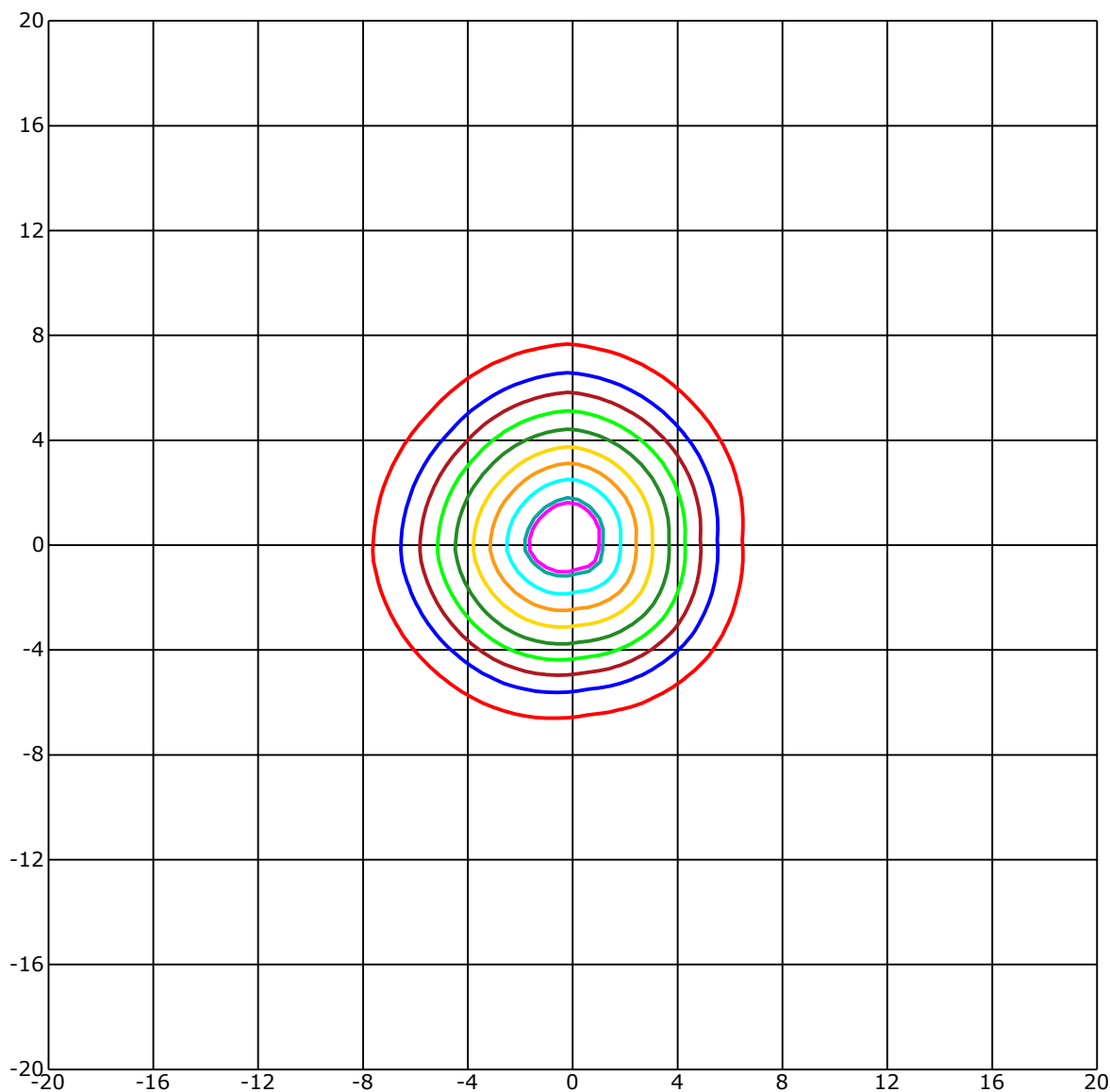
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ISOLX DIAGRAM



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

35.6(92%Emax)	19.348(50%Emax)
34.826(90%Emax)	15.478(40%Emax)
30.956(80%Emax)	11.609(30%Emax)
27.087(70%Emax)	7.739(20%Emax)
23.217(60%Emax)	3.87(10%Emax)

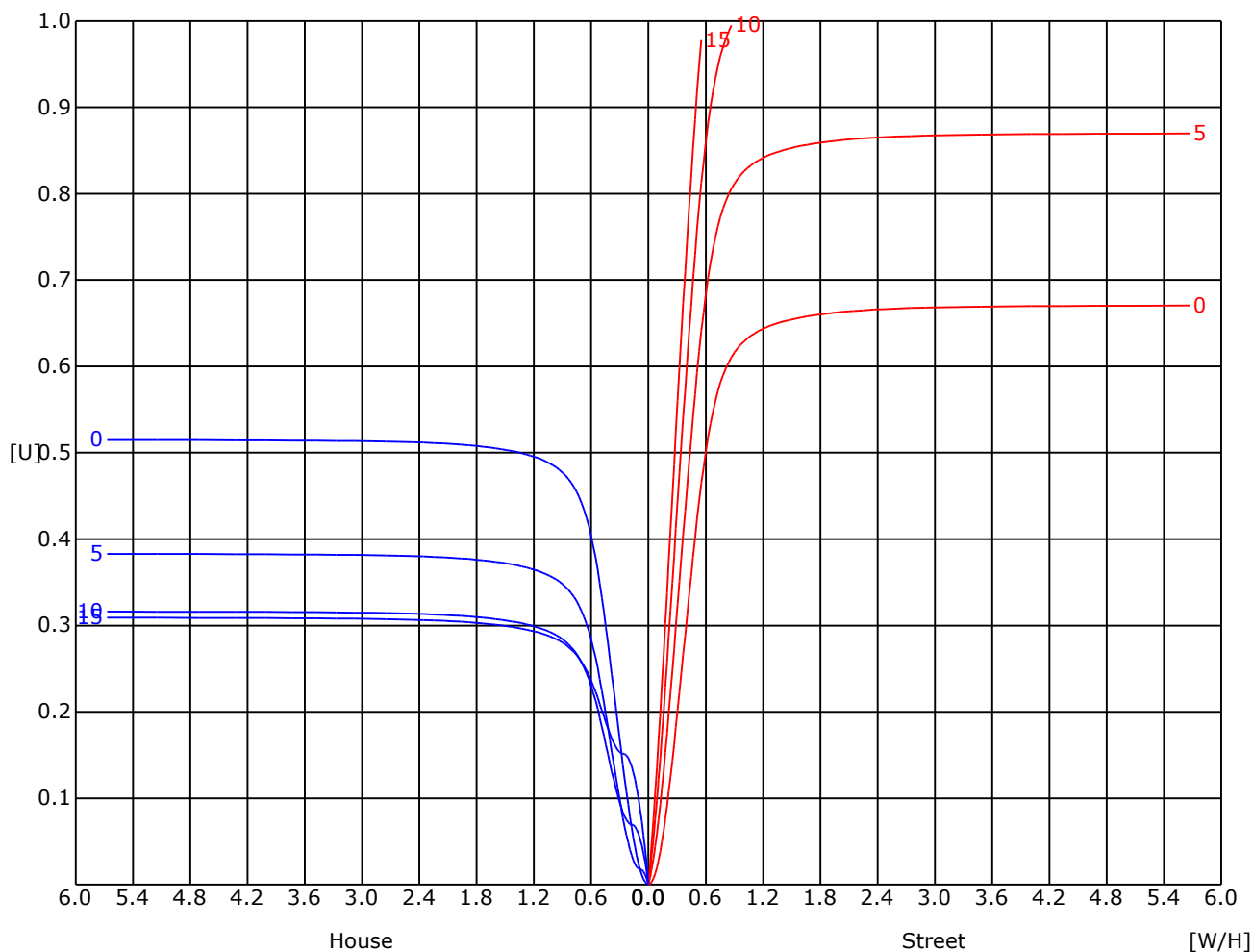
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UTILIZATION FACTOR DIAGRAM (ROAD)



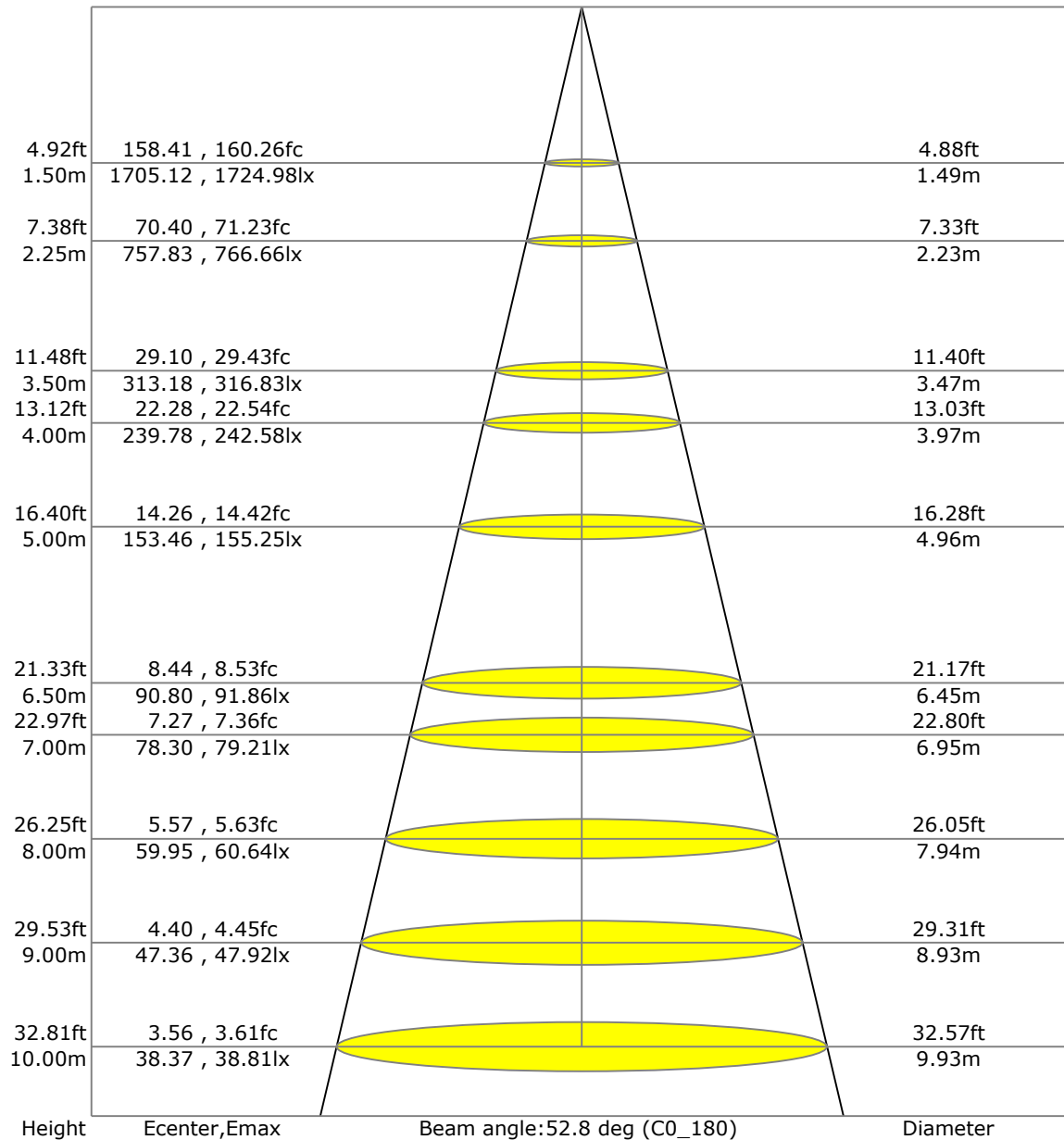
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Temperature: 25
Operators: QC01
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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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	10.41	10.46	10.61	10.64	10.89	10.78	10.83	10.98	11.02	11.26
3H	10.40	10.46	10.61	10.65	10.90	10.76	10.81	10.97	11.00	11.25
4H	10.39	10.44	10.60	10.64	10.89	10.74	10.80	10.95	10.99	11.24
6H	10.38	10.43	10.59	10.63	10.88	10.73	10.78	10.94	10.98	11.23
8H	10.37	10.42	10.58	10.62	10.87	10.72	10.77	10.93	10.97	11.22
12H	10.36	10.41	10.58	10.61	10.87	10.71	10.76	10.93	10.96	11.22
4H 2H	10.48	10.53	10.69	10.73	10.98	11.16	11.21	11.37	11.41	11.65
3H	10.49	10.54	10.71	10.74	11.00	11.15	11.20	11.37	11.41	11.66
4H	10.47	10.52	10.70	10.73	10.99	11.13	11.18	11.36	11.39	11.65
6H	10.45	10.50	10.69	10.72	10.98	11.11	11.16	11.34	11.38	11.64
8H	10.44	10.49	10.68	10.71	10.98	11.09	11.14	11.34	11.37	11.63
12H	10.43	10.47	10.67	10.70	10.97	11.08	11.13	11.33	11.36	11.63
8H 4H	10.46	10.51	10.68	10.71	10.97	11.23	11.28	11.44	11.48	11.73
6H	10.42	10.46	10.67	10.70	10.97	11.19	11.23	11.44	11.47	11.75
8H	10.41	10.45	10.67	10.69	10.97	11.17	11.22	11.44	11.46	11.74
12H	10.39	10.43	10.66	10.68	10.96	11.16	11.20	11.43	11.45	11.73
12H 4H	10.43	10.48	10.68	10.71	10.98	11.24	11.29	11.49	11.52	11.79
6H	10.40	10.45	10.67	10.69	10.97	11.22	11.26	11.48	11.50	11.78

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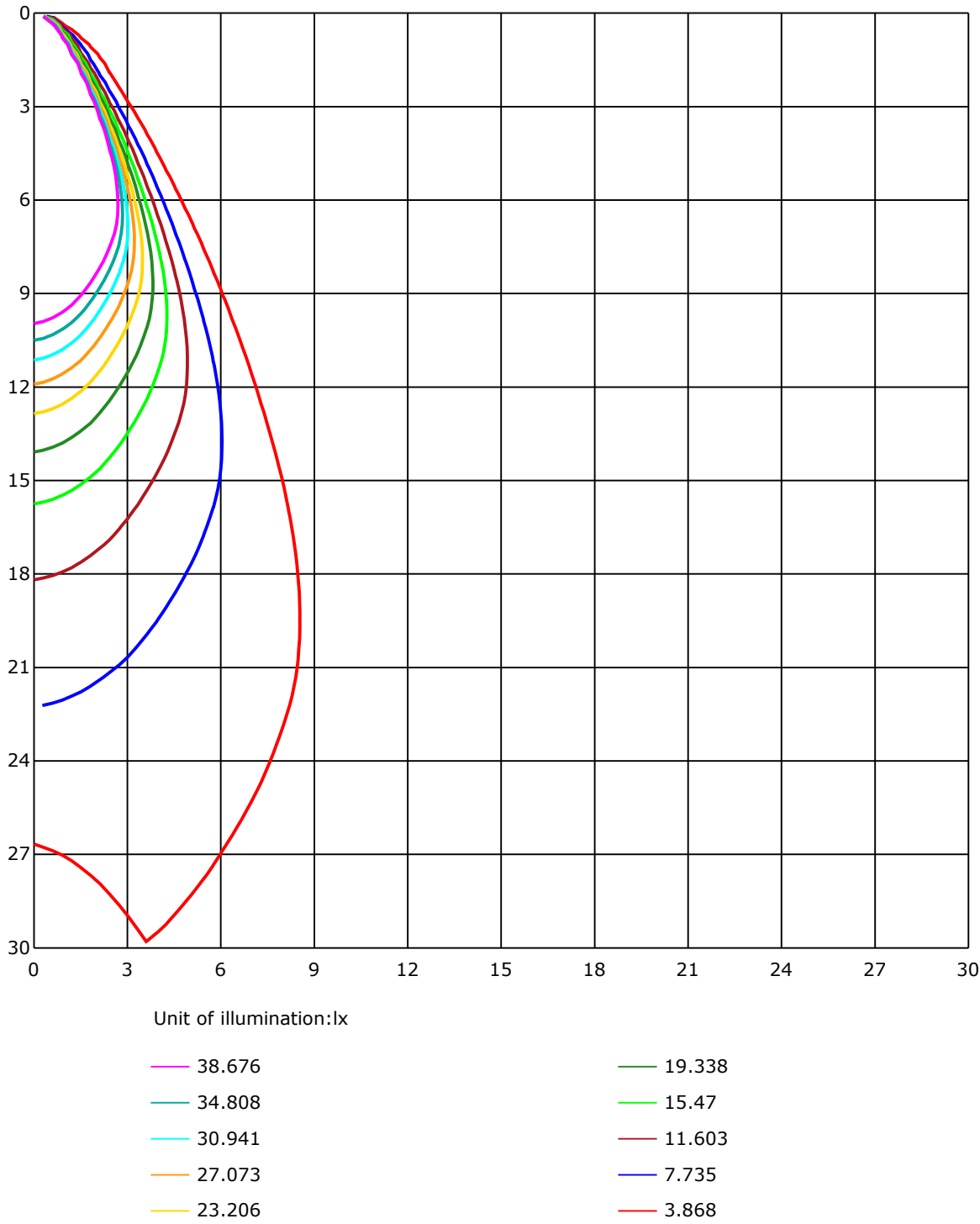
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Humidity: 60
Test Distance: 6.81 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
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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: 2024/9/18 16:41:04

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	3836.51	3848.38	3828.16	3860.3	3836.51	3848.38	3828.16	3860.3	3836.51	
G1	3813.41	3836.6	3841.24	3868.18	3857.29	3845.78	3801.5	3836.23	3813.41	
G2	3785.03	3820.09	3848.98	3876.63	3873.89	3828.16	3768.85	3810.59	3785.03	
G3	3740.65	3812.49	3858.96	3875.19	3881.22	3825.94	3725.67	3772.37	3740.65	
G4	3694.88	3791.48	3853.07	3871.48	3869.95	3779.33	3683.0	3733.79	3694.88	
G5	3634.91	3761.71	3843.56	3853.3	3860.86	3749.0	3626.66	3683.84	3634.91	
G6	3570.68	3717.18	3825.75	3826.68	3841.01	3702.95	3557.19	3633.29	3570.68	
G7	3502.14	3667.0	3809.06	3793.24	3812.12	3647.02	3486.6	3567.34	3502.14	
G8	3434.34	3602.59	3765.88	3755.03	3788.23	3599.71	3423.44	3494.07	3434.34	
G9	3344.13	3542.35	3725.53	3711.25	3742.69	3539.61	3343.44	3420.66	3344.13	
G10	3255.7	3466.61	3673.27	3653.88	3693.81	3460.91	3250.78	3339.78	3255.7	
G11	3168.46	3392.88	3620.54	3595.49	3628.28	3382.16	3173.8	3253.14	3168.46	
G12	3075.9	3311.3	3557.51	3528.67	3562.15	3303.97	3083.27	3171.99	3075.9	
G13	2979.39	3224.39	3481.78	3449.83	3487.72	3217.81	3003.04	3083.96	2979.39	
G14	2893.03	3132.29	3408.27	3366.67	3417.18	3138.09	2911.91	3002.16	2893.03	
G15	2799.73	3037.31	3327.07	3281.39	3332.31	3057.67	2828.43	2908.48	2799.73	
G16	2714.9	2946.78	3239.97	3200.14	3252.63	2970.48	2742.73	2824.95	2714.9	
G17	2619.6	2853.52	3150.98	3106.32	3163.27	2892.34	2656.24	2735.03	2619.6	
G18	2525.27	2761.79	3061.61	3009.99	3081.18	2803.95	2563.62	2647.89	2525.27	
G19	2431.96	2670.57	2969.0	2925.87	2997.33	2724.46	2476.72	2555.74	2431.96	
G20	2339.58	2582.45	2874.81	2834.0	2912.7	2641.68	2380.9	2461.55	2339.58	
G21	2240.29	2491.6	2789.52	2738.46	2827.55	2556.53	2276.19	2362.45	2240.29	
G22	2128.15	2398.9	2694.41	2648.54	2740.41	2467.3	2157.37	2259.3	2128.15	
G23	1999.78	2301.32	2610.79	2560.1	2654.15	2368.15	2031.13	2143.41	1999.78	
G24	1867.71	2203.42	2522.91	2461.27	2561.31	2259.77	1894.05	2018.57	1867.71	
G25	1721.25	2087.57	2422.69	2356.6	2464.38	2143.83	1752.41	1878.28	1721.25	
G26	1571.59	1960.64	2323.07	2239.59	2361.29	2009.11	1596.92	1738.13	1571.59	
G27	1416.98	1823.23	2215.9	2115.17	2248.22	1863.9	1442.02	1587.96	1416.98	
G28	1262.08	1679.84	2098.24	1987.12	2123.28	1712.07	1289.95	1433.25	1262.08	
G29	1108.71	1530.27	1971.31	1841.41	1990.37	1555.41	1137.05	1280.26	1108.71	
G30	963.46	1376.4	1829.49	1688.32	1847.21	1396.57	990.87	1133.85	963.46	
G31	837.46	1225.12	1685.12	1531.62	1692.64	1241.02	865.01	992.4	837.46	
G32	723.79	1080.19	1527.72	1373.57	1530.32	1092.71	752.08	864.73	723.79	
G33	621.63	944.73	1372.55	1221.55	1367.63	954.56	648.2	751.2	621.63	
G34	536.25	821.27	1222.43	1077.6	1211.3	828.46	561.2	650.01	536.25	
G35	461.67	709.79	1080.52	940.04	1061.92	719.34	486.39	561.71	461.67	
G36	397.77	614.16	943.43	817.94	924.97	621.25	419.01	486.67	397.77	

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Humidity: 60

Test Distance: 6.81 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	343.32	529.99	820.07	708.02	802.31	535.74	364.19	422.86	343.32	
G38	295.93	454.49	711.36	610.22	694.48	462.65	314.94	367.72	295.93	
G39	254.0	391.37	615.04	525.49	600.43	401.43	273.99	321.29	254.0	
G40	219.78	338.22	532.68	457.08	519.13	347.13	239.02	281.55	219.78	
G41	191.67	293.51	461.86	392.76	449.29	301.82	208.18	247.51	191.67	
G42	169.37	254.56	401.06	340.08	390.77	263.88	184.3	220.1	169.37	
G43	150.07	223.76	348.24	295.93	338.27	233.18	163.85	196.59	150.07	
G44	133.24	198.17	300.61	258.69	292.59	207.63	147.15	176.97	133.24	
G45	117.66	176.55	262.03	228.17	253.96	186.43	131.99	160.04	117.66	
G46	103.7	159.53	230.07	202.94	222.14	167.74	118.26	145.85	103.7	
G47	91.59	144.88	204.33	180.96	196.22	152.21	106.48	133.56	91.59	
G48	81.76	131.75	182.03	162.87	174.33	139.13	95.63	123.08	81.76	
G49	73.69	120.49	162.92	147.11	154.66	127.26	86.45	113.71	73.69	
G50	67.76	110.61	146.69	133.42	137.32	117.29	78.79	105.74	67.76	
G51	62.75	101.84	132.59	121.97	121.74	108.24	72.86	98.18	62.75	
G52	58.9	94.0	120.11	112.6	108.1	100.31	67.57	91.41	58.9	
G53	55.09	86.91	109.59	103.47	96.32	93.03	63.12	85.29	55.09	
G54	52.13	80.56	100.73	95.86	86.86	86.4	59.04	79.63	52.13	
G55	49.16	74.94	93.03	89.0	78.89	80.56	56.07	74.2	49.16	
G56	45.59	69.75	86.17	83.2	72.86	75.45	52.92	69.61	45.59	
G57	42.3	65.3	80.37	77.22	68.08	70.82	50.13	65.11	42.3	
G58	39.23	61.03	75.36	72.25	63.77	66.41	47.07	61.12	39.23	
G59	35.85	57.27	71.14	67.66	60.29	62.38	44.34	57.14	35.85	
G60	32.32	53.56	66.97	63.35	57.0	58.8	41.74	53.61	32.32	
G61	28.24	50.09	63.12	59.18	53.8	55.19	38.96	49.9	28.24	
G62	23.14	46.1	59.59	55.19	50.46	51.76	35.52	46.33	23.14	
G63	19.52	42.71	56.3	51.57	46.84	47.91	32.37	42.81	19.52	
G64	17.25	39.56	53.01	47.54	43.73	44.61	29.96	39.37	17.25	
G65	15.07	36.27	50.09	44.24	40.21	41.18	27.87	35.85	15.07	
G66	12.8	32.74	46.38	40.86	36.64	37.7	25.6	32.28	12.8	
G67	10.76	29.26	42.53	37.7	31.3	34.5	23.65	28.47	10.76	
G68	8.86	25.83	39.14	34.5	27.04	30.65	21.52	24.9	8.86	
G69	7.14	22.31	36.78	30.93	23.98	26.99	19.71	21.66	7.14	
G70	5.75	18.64	34.23	27.55	21.38	23.47	17.81	18.55	5.75	
G71	4.45	15.54	31.81	24.12	18.97	20.27	15.91	15.68	4.45	
G72	3.52	12.99	29.63	20.64	16.65	17.3	13.96	13.5	3.52	
G73	2.97	10.99	27.36	17.44	14.42	15.16	11.87	11.69	2.97	

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Test Distance: 6.81 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

Remarks: