

Report No.:

Test Time: 2024/10/8 14:35:59

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-3F-38°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

Voltage(V): 220.00 V
Current(A): 0.2060 A
Power(W): 42.94 W
Power Factor: 0.9460
Lamp Luminous Flux: 3906.64

Photometric Results

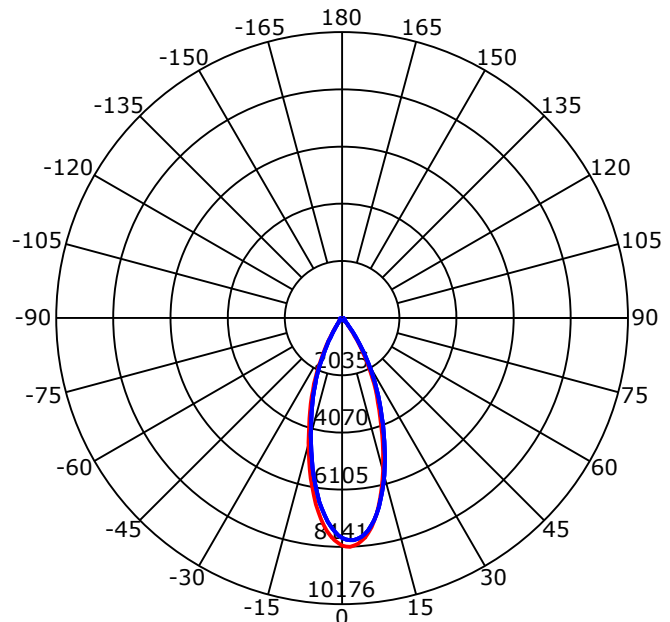
CIE Class: Direct
Luminaire Luminous Flux: 3906.638 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.98 lm/W
Beam Angle(50%) C0-180,C90-270: 36.8,37.6
Field Angle(10%) C0-180,C90-270: 66.6,67.2
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 8140.54 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8098.24 cd
Effective Luminous Flux: 3455.31 lm
ERP(ϕ use)(120deg): 3852.04 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.8 deg,37.6 deg

C0-180 — C90-270 —

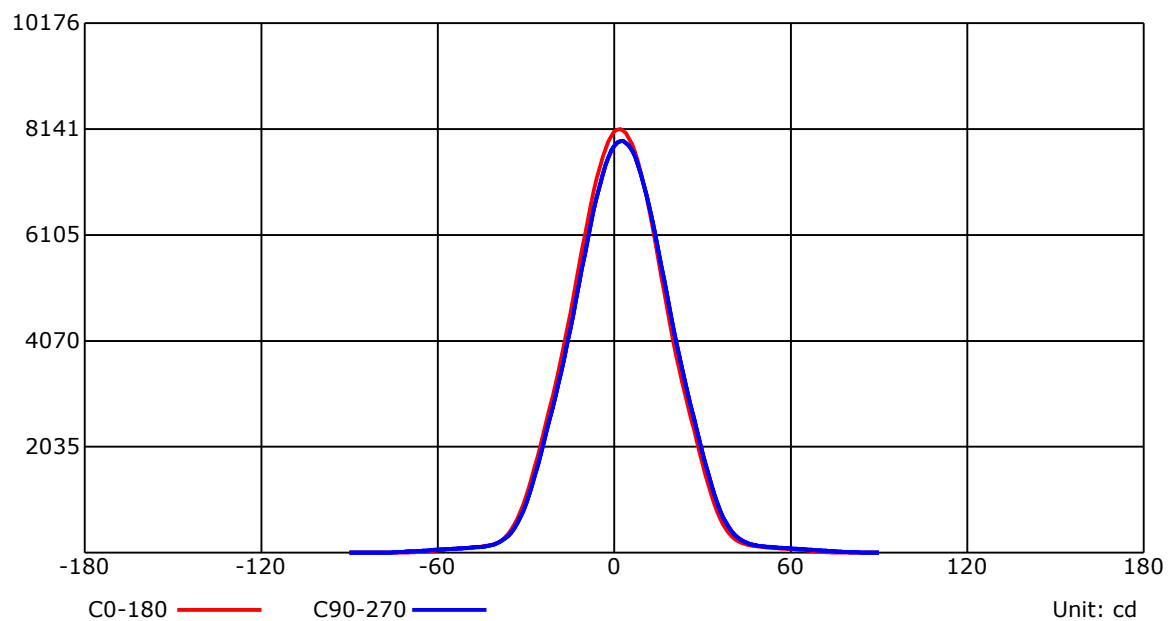
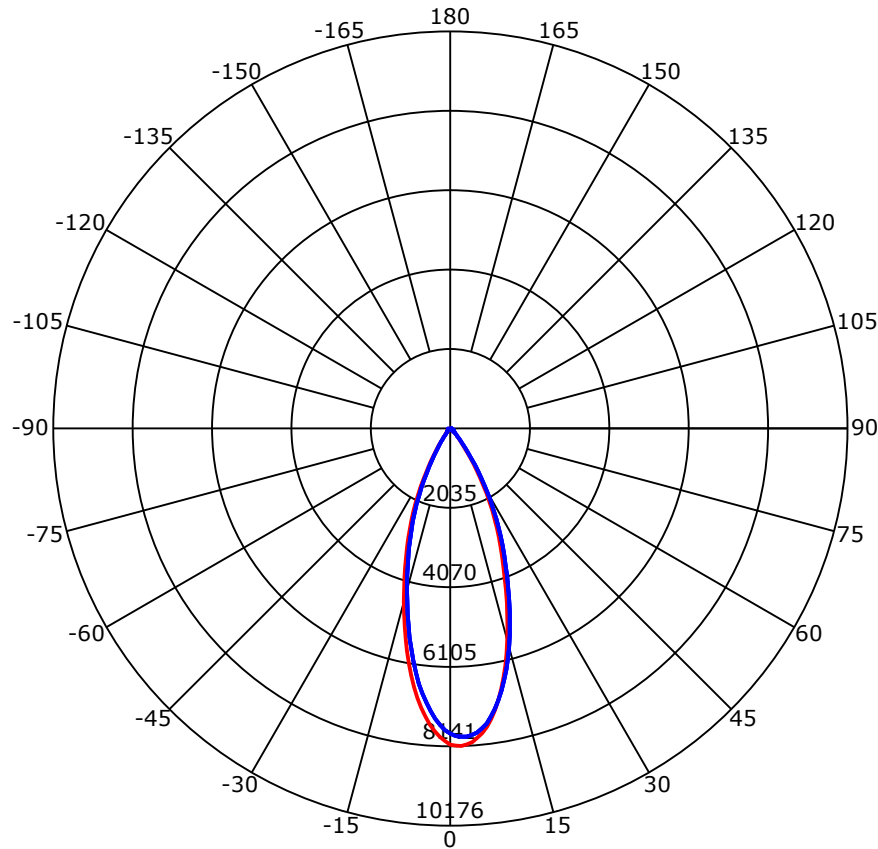
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 14:35:59

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



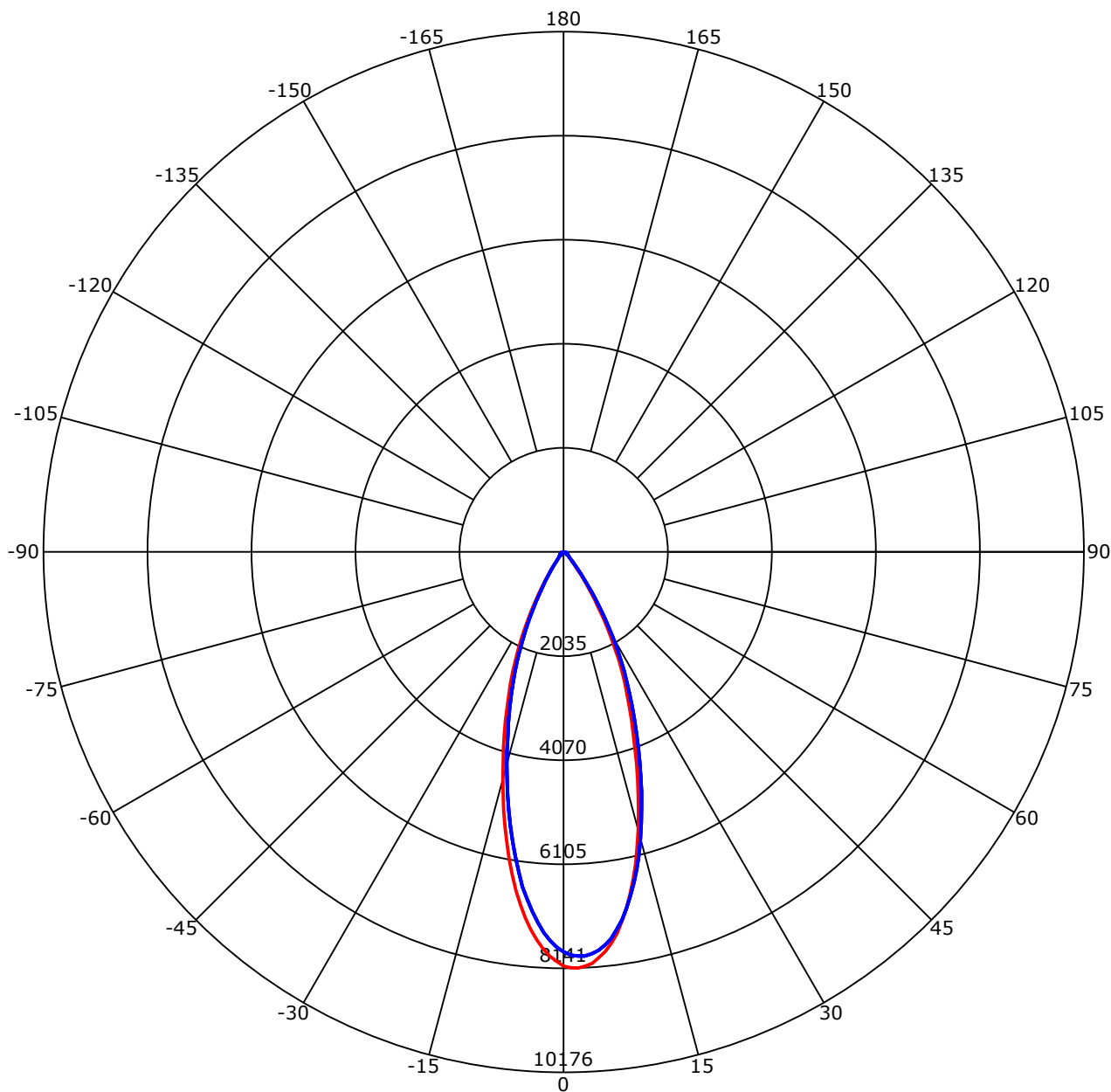
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

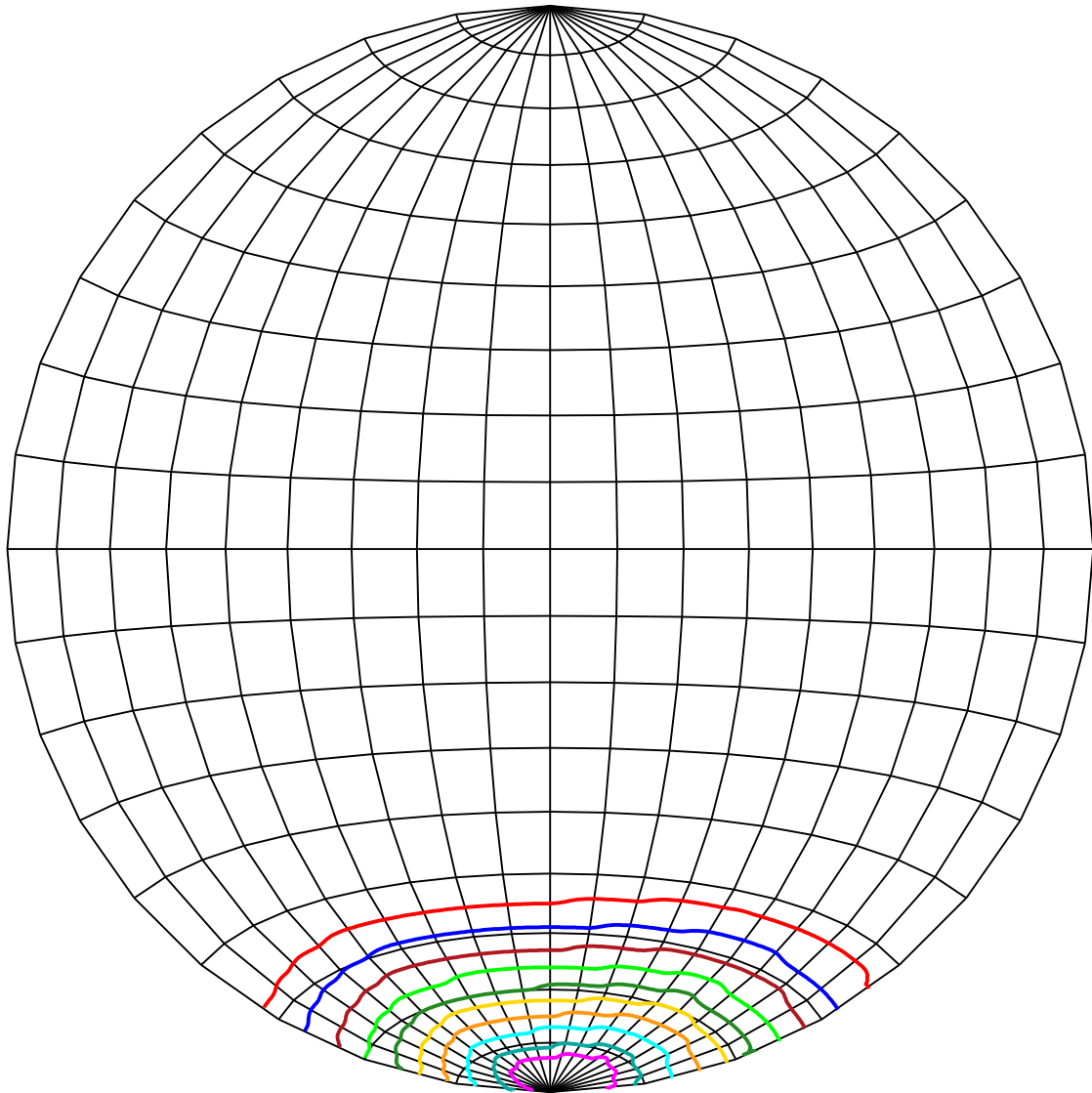
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 8140.536 cd

7733.509(95%Imax)	4070.268(50%Imax)
7326.482(90%Imax)	3256.215(40%Imax)
6512.429(80%Imax)	2442.161(30%Imax)
5698.375(70%Imax)	1628.107(20%Imax)
4884.322(60%Imax)	814.054(10%Imax)

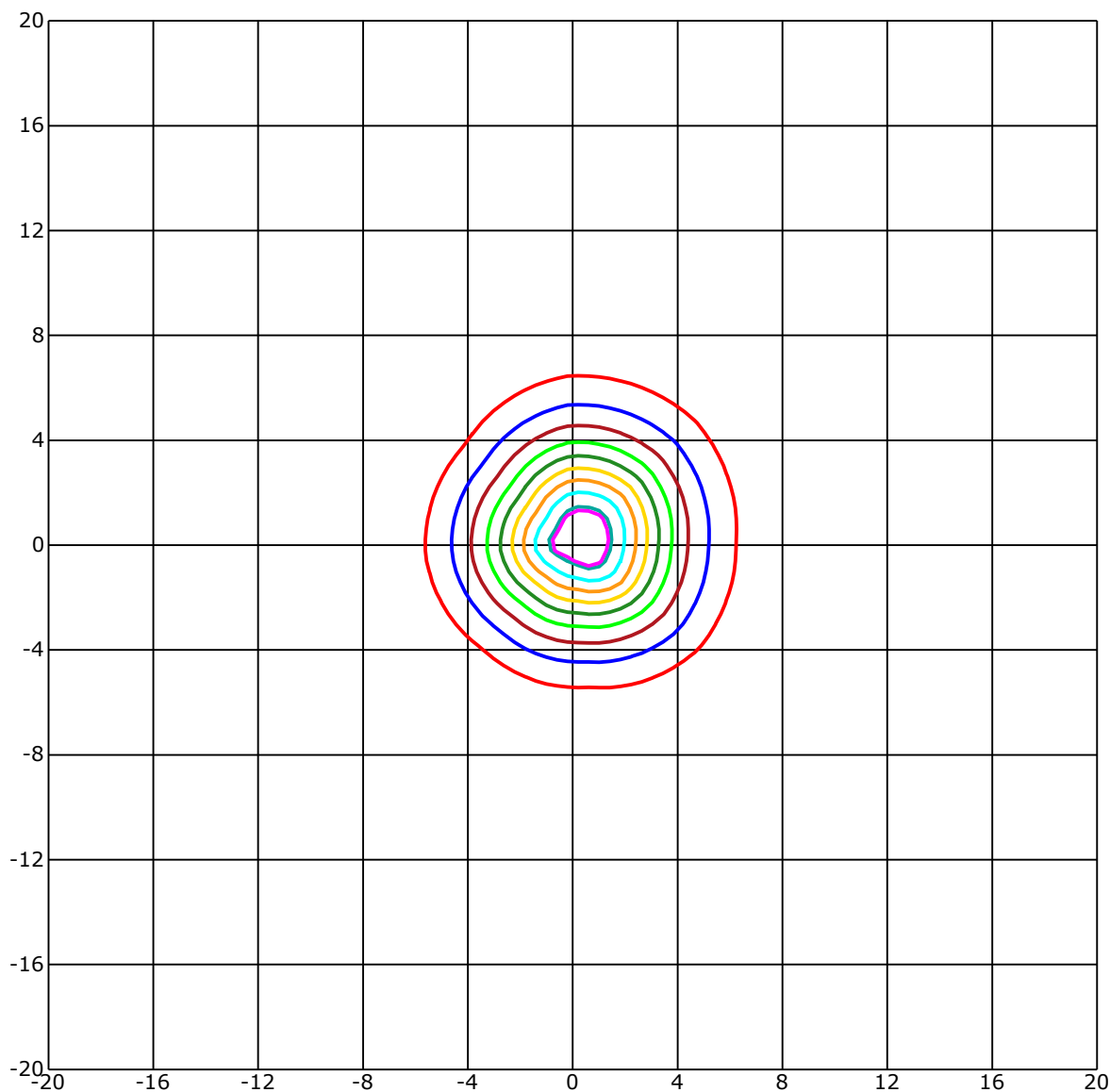
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ISOLX DIAGRAM



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

74.768(92%Emax)	40.635(50%Emax)
73.143(90%Emax)	32.508(40%Emax)
65.016(80%Emax)	24.381(30%Emax)
56.889(70%Emax)	16.254(20%Emax)
48.762(60%Emax)	8.127(10%Emax)

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Humidity: 60

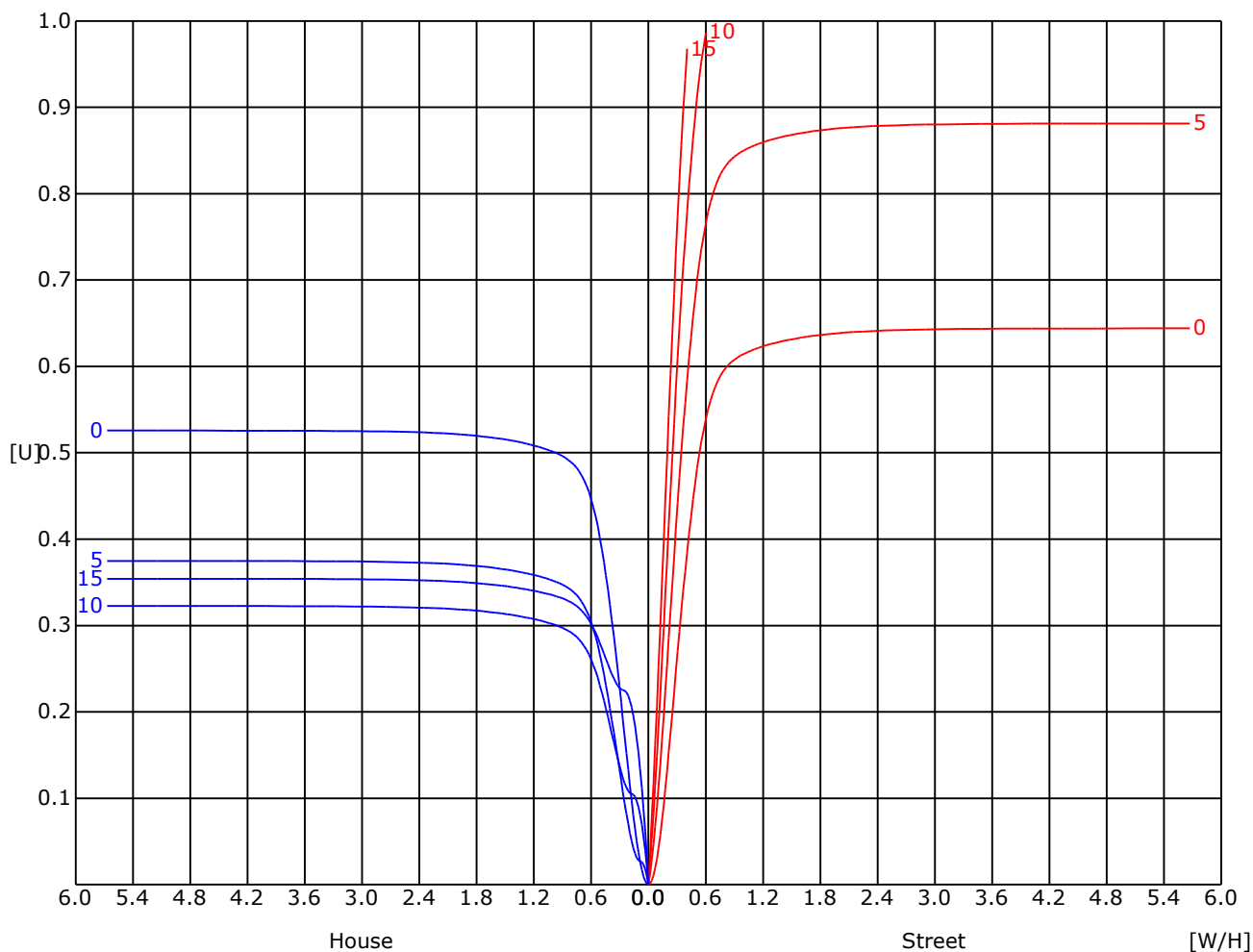
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UTILIZATION FACTOR DIAGRAM (ROAD)



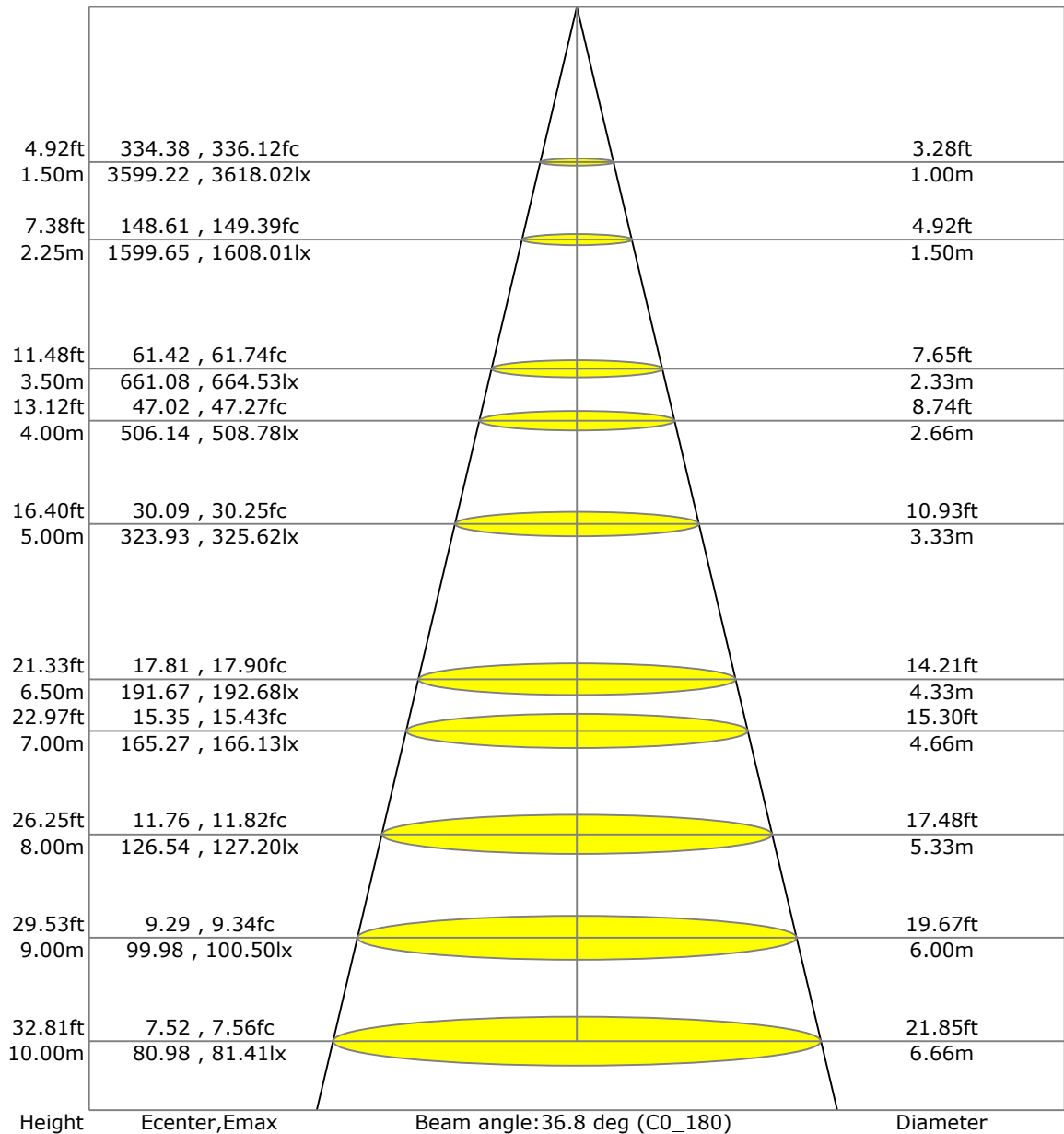
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LX-DISTANCE DIAGRAM



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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	10.05	10.10	10.25	10.29	10.53	10.11	10.16	10.31	10.35	10.59
3H	10.06	10.11	10.26	10.30	10.55	10.11	10.16	10.31	10.35	10.60
4H	10.05	10.10	10.26	10.30	10.54	10.09	10.14	10.30	10.34	10.59
6H	10.03	10.08	10.25	10.28	10.54	10.08	10.13	10.29	10.33	10.58
8H	10.02	10.07	10.24	10.28	10.53	10.07	10.12	10.29	10.32	10.58
12H	10.01	10.07	10.23	10.27	10.53	10.06	10.11	10.28	10.32	10.57
4H 2H	10.26	10.31	10.47	10.51	10.75	10.52	10.57	10.73	10.77	11.01
3H	10.29	10.34	10.51	10.55	10.80	10.54	10.60	10.76	10.80	11.06
4H	10.28	10.33	10.51	10.54	10.80	10.53	10.58	10.75	10.79	11.05
6H	10.25	10.31	10.49	10.53	10.79	10.50	10.56	10.74	10.78	11.04
8H	10.24	10.29	10.49	10.52	10.79	10.49	10.54	10.73	10.77	11.03
12H	10.23	10.28	10.48	10.51	10.78	10.48	10.53	10.73	10.76	11.03
8H 4H	10.23	10.28	10.45	10.49	10.74	10.53	10.58	10.75	10.78	11.04
6H	10.22	10.26	10.47	10.50	10.77	10.51	10.55	10.76	10.79	11.06
8H	10.20	10.25	10.46	10.49	10.77	10.49	10.54	10.75	10.78	11.06
12H	10.18	10.23	10.45	10.48	10.76	10.47	10.52	10.74	10.77	11.05
12H 4H	10.23	10.28	10.48	10.51	10.78	10.52	10.57	10.77	10.80	11.07
6H	10.20	10.25	10.46	10.49	10.77	10.49	10.54	10.75	10.78	11.06

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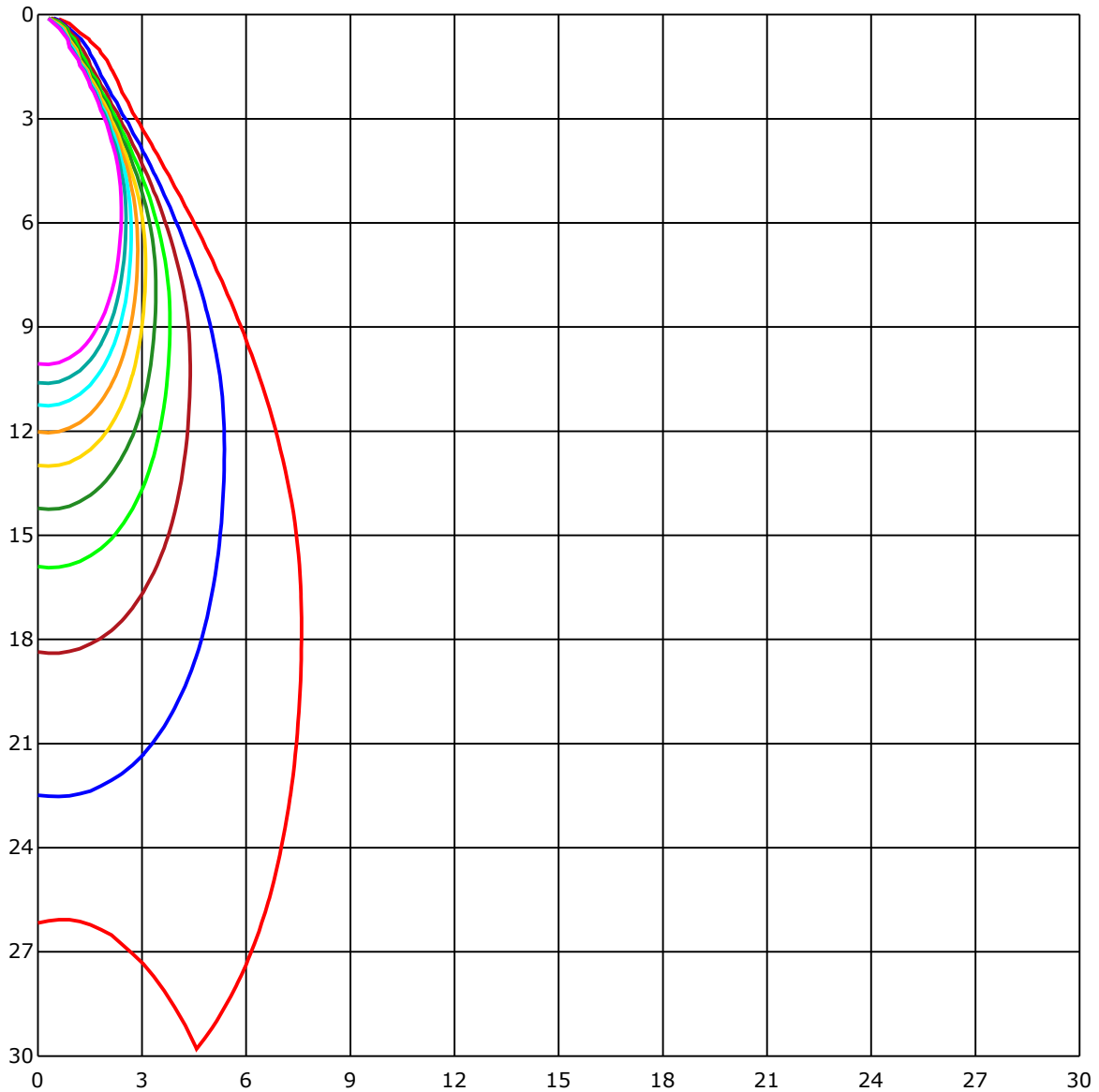
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

80.09	40.045
72.081	32.036
64.072	24.027
56.063	16.018
48.054	8.009

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8098.24	7816.88	7817.29	7955.82	8098.24	7816.88	7817.29	7955.82	8098.24	
G1	8130.7	7925.17	7883.57	7895.21	8004.89	7672.88	7731.04	8000.57	8130.7	
G2	8140.54	7988.33	7904.81	7789.98	7905.41	7535.51	7600.9	7997.56	8140.54	
G3	8108.54	8024.41	7911.58	7676.27	7761.92	7324.46	7449.21	7989.67	8108.54	
G4	8059.61	8035.26	7872.95	7490.62	7601.51	7133.57	7261.52	7919.18	8059.61	
G5	7955.08	8020.52	7819.89	7313.37	7403.02	6887.18	7052.18	7845.54	7955.08	
G6	7848.92	7971.4	7726.81	7107.37	7187.55	6624.46	6825.31	7697.41	7848.92	
G7	7698.62	7879.76	7615.0	6869.23	6950.85	6356.26	6595.52	7548.13	7698.62	
G8	7522.06	7766.42	7454.73	6613.33	6688.04	6085.52	6322.08	7365.08	7522.06	
G9	7305.07	7616.76	7281.14	6355.94	6401.71	5768.68	6039.0	7160.15	7305.07	
G10	7071.8	7476.76	7077.04	6065.3	6117.24	5471.36	5750.68	6919.59	7071.8	
G11	6810.52	7241.81	6849.52	5782.08	5816.58	5171.21	5464.54	6676.67	6810.52	
G12	6539.96	7035.35	6607.57	5495.61	5516.44	4875.98	5161.98	6392.44	6539.96	
G13	6249.46	6778.89	6360.57	5191.2	5206.46	4577.51	4875.24	6118.58	6249.46	
G14	5942.22	6517.28	6089.23	4891.89	4895.93	4299.62	4569.58	5814.26	5942.22	
G15	5631.54	6227.06	5801.0	4589.52	4595.27	4010.14	4294.1	5521.82	5631.54	
G16	5305.06	5931.27	5512.73	4292.94	4300.32	3742.37	4017.05	5193.75	5305.06	
G17	4986.87	5630.52	5218.42	4024.8	4022.9	3487.11	3738.29	4891.89	4986.87	
G18	4677.77	5324.16	4925.61	3750.76	3753.68	3246.7	3489.06	4594.85	4677.77	
G19	4372.34	5006.9	4630.98	3496.71	3493.65	3005.54	3255.19	4297.86	4372.34	
G20	4074.74	4704.16	4341.55	3241.88	3244.7	2782.98	3017.0	4011.58	4074.74	
G21	3796.86	4402.07	4069.36	3010.64	3002.11	2548.51	2789.24	3748.77	3796.86	
G22	3535.3	4126.96	3788.37	2778.44	2773.48	2332.95	2563.53	3490.92	3535.3	
G23	3281.94	3844.67	3537.99	2554.63	2548.88	2108.07	2343.43	3244.61	3281.94	
G24	3050.2	3582.0	3291.45	2327.8	2321.08	1890.66	2119.48	3015.47	3050.2	
G25	2822.77	3332.49	3053.96	2104.83	2096.11	1683.64	1899.89	2794.44	2822.77	
G26	2597.8	3094.72	2818.04	1887.14	1873.55	1475.46	1686.7	2576.56	2597.8	
G27	2374.41	2850.97	2591.27	1674.55	1663.46	1280.26	1484.41	2353.36	2374.41	
G28	2143.41	2620.25	2358.23	1462.52	1458.02	1100.13	1286.24	2128.66	2143.41	
G29	1915.06	2389.95	2134.92	1269.27	1265.88	936.24	1106.72	1913.34	1915.06	
G30	1704.51	2166.0	1914.73	1087.66	1087.98	789.51	944.17	1691.57	1704.51	
G31	1491.64	1936.34	1704.32	921.08	926.83	663.46	799.2	1484.68	1491.64	
G32	1289.95	1717.59	1499.15	773.23	779.54	555.63	670.83	1290.0	1289.95	
G33	1104.86	1508.29	1302.24	644.26	649.27	459.08	562.22	1102.59	1104.86	
G34	931.56	1315.92	1117.62	537.5	543.02	384.23	471.92	936.43	931.56	
G35	782.36	1130.79	957.25	446.37	448.18	325.56	391.0	789.6	782.36	
G36	652.05	964.21	807.55	373.65	370.59	277.89	330.11	659.84	652.05	

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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

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	540.28	814.13	679.78	316.42	304.27	239.72	278.63	556.51	540.28	
G38	444.1	682.38	571.35	269.31	250.62	209.3	238.74	465.94	444.1	
G39	370.17	567.83	480.64	231.42	211.29	185.41	205.17	390.12	370.17	
G40	307.47	469.56	399.81	203.41	182.86	168.25	177.16	330.34	307.47	
G41	258.64	389.1	340.03	178.78	163.38	154.57	156.61	282.62	258.64	
G42	222.51	323.33	291.06	160.97	150.63	144.65	141.03	243.2	222.51	
G43	193.3	271.49	249.97	147.52	139.17	135.42	130.18	213.47	193.3	
G44	171.22	231.46	215.97	136.11	129.53	128.6	120.58	189.35	171.22	
G45	153.13	202.71	189.45	127.16	121.27	122.76	113.99	172.52	153.13	
G46	140.24	177.06	168.62	120.21	115.29	117.52	108.2	157.73	140.24	
G47	130.92	158.19	153.23	115.15	109.4	111.26	103.23	146.55	130.92	
G48	122.34	145.81	141.22	110.84	103.51	107.55	98.04	136.86	122.34	
G49	117.1	134.35	133.1	104.39	99.8	102.21	93.82	129.71	117.1	
G50	110.98	127.21	126.19	99.52	93.68	97.67	90.2	124.1	110.98	
G51	104.11	119.42	119.51	97.44	89.09	93.26	86.91	118.77	104.11	
G52	99.57	114.46	114.13	91.36	85.05	89.74	82.27	114.22	99.57	
G53	95.77	110.56	110.1	88.02	80.18	84.78	79.58	109.4	95.77	
G54	90.76	105.27	104.16	84.82	76.61	81.76	76.52	104.9	90.76	
G55	86.58	101.15	99.62	79.91	70.82	76.06	72.9	102.35	86.58	
G56	82.5	98.18	96.42	76.1	67.43	72.35	69.24	97.53	82.5	
G57	77.54	94.1	92.1	73.09	61.96	67.71	67.25	94.65	77.54	
G58	74.29	91.13	88.67	68.45	56.76	63.4	63.49	90.76	74.29	
G59	69.66	87.79	85.01	64.46	51.8	58.57	60.66	87.14	69.66	
G60	66.23	84.17	81.58	60.52	46.89	53.89	57.74	83.71	66.23	
G61	61.96	80.14	78.47	55.79	39.79	50.23	54.91	80.0	61.96	
G62	57.0	77.77	74.9	50.5	31.81	44.94	49.44	75.31	57.0	
G63	52.45	73.14	70.77	46.75	24.95	38.72	45.4	72.3	52.45	
G64	48.46	69.29	67.15	41.14	21.7	34.04	41.41	67.48	48.46	
G65	43.27	65.48	64.83	36.17	17.44	28.06	39.1	64.09	43.27	
G66	38.35	61.22	59.73	30.89	14.42	22.26	35.29	59.32	38.35	
G67	29.87	56.58	55.98	25.09	10.99	16.32	32.42	55.6	29.87	
G68	24.07	52.78	50.36	19.8	8.16	12.89	28.66	50.04	24.07	
G69	19.2	48.46	47.3	16.28	5.1	9.55	26.3	46.52	19.2	
G70	15.86	44.2	44.38	10.48	2.5	6.72	23.74	41.0	15.86	
G71	12.8	39.42	40.95	6.12	1.02	3.2	20.54	35.76	12.8	
G72	9.65	34.13	37.89	3.11	0.0	0.93	16.09	29.96	9.65	
G73	6.91	28.71	34.27	0.79	0.0	0.0	11.59	25.0	6.91	

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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]

Remarks: