

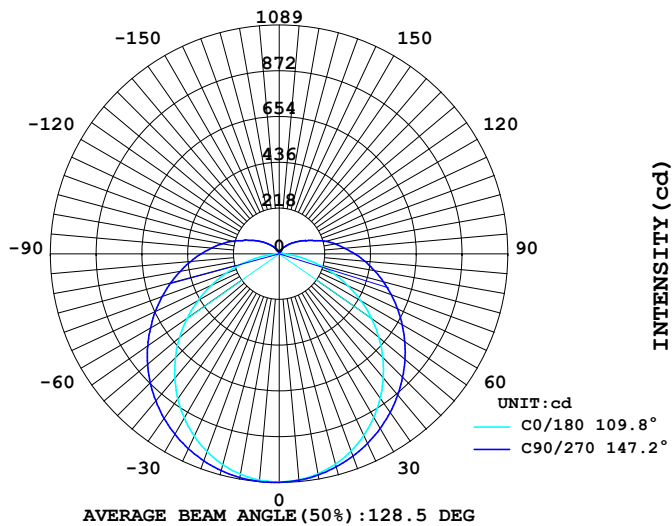
# LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

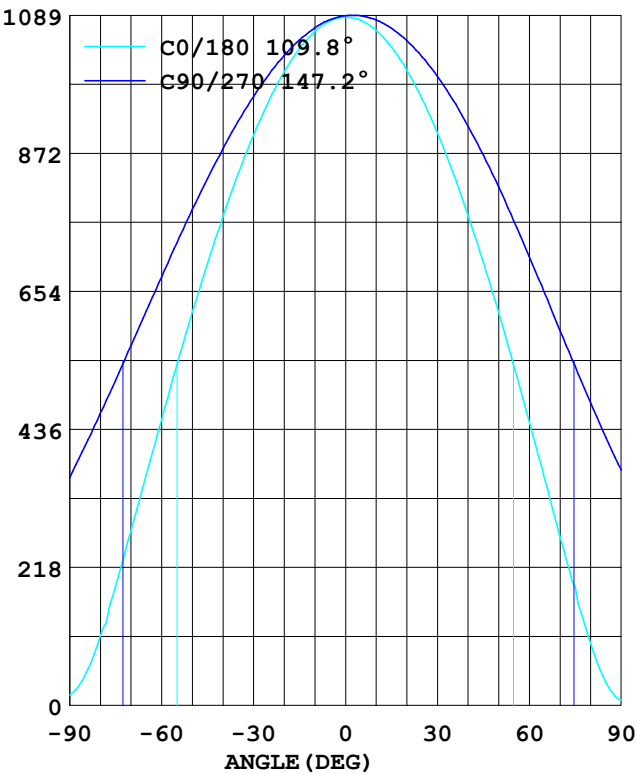
MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N03540-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 0	DIMENSION:	SERIAL No. :

DATA OF LAMP		Imax (cd)	1089	S/MH (C0/180)	1.24
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.32
NOMINAL POWER(W)	36	TOTAL FLUX(lm)	4283.2	Voltage(V)	231.1
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	120.3	Current(A)	0.159
NOMINAL FLUX(lm)	4283.2	$\eta$ up (%)	11.8	Power(W)	35.59
LAMPS QUANTITY	1	$\eta$ down (%)	88.2	Power Factor (PF)	0.989
TEST VOLTAGE (V)	231.1	Effective Flux(lm)	4120.0	EEL	0.118

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



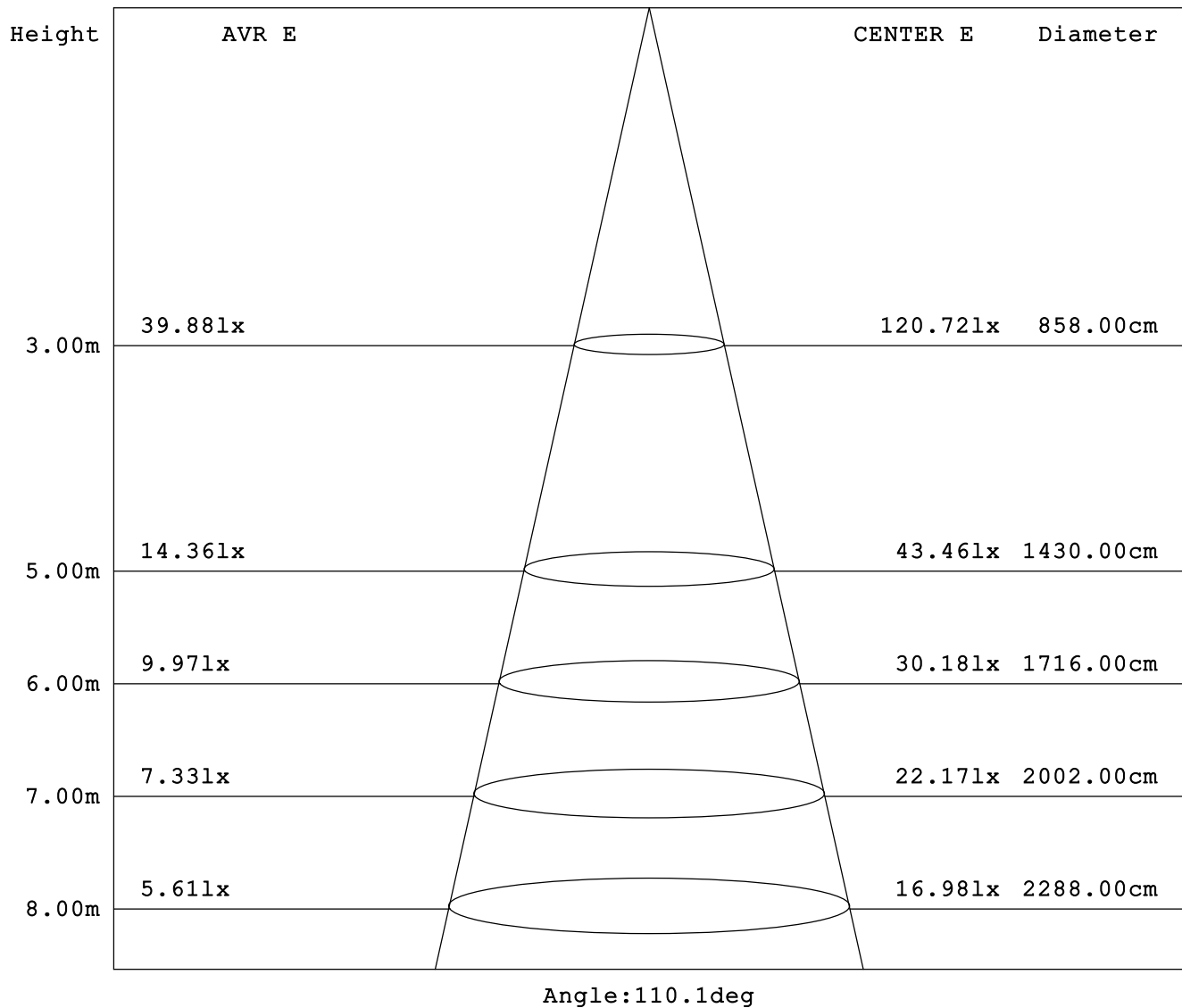
Test System:HOPOO  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks:

## AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N03540-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 0	DIMENSION:	SERIAL No. :



Test System: HOPOO  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 10.000 m  
 Remarks:

## ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N03540-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 0	DIMENSION:	SERIAL No. :

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	1081	1080	1083	1079	1081	1086	1089	1086	0- 5	25.94	25.94
10.0	1064	1065	1070	1063	1066	1076	1082	1076	5- 10	77.02	102.9
15.0	1037	1042	1050	1038	1040	1058	1069	1057	10- 15	125.6	228.6
20.0	1000	1011	1026	1006	1003	1032	1050	1030	15- 20	170.4	399.1
25.0	954.2	973.5	995.9	966.9	957.5	998.2	1024	996.1	20- 25	210.0	609.2
30.0	899.9	929.0	960.9	920.3	904.3	956.8	993.2	953.6	25- 30	243.3	852.5
35.0	839.6	878.8	922.2	867.7	842.2	910.0	956.5	905.6	30- 35	269.4	1122
40.0	771.3	825.0	878.6	811.4	773.1	856.3	914.3	850.7	35- 40	287.8	1410
45.0	697.4	766.4	831.6	749.9	700.1	798.0	868.9	790.9	40- 45	298.1	1708
50.0	620.4	705.1	782.7	685.7	620.0	737.6	818.3	729.1	45- 50	300.5	2009
55.0	537.3	643.5	730.3	621.2	535.1	673.5	764.2	663.6	50- 55	295.2	2304
60.0	451.0	580.0	676.3	555.1	448.5	608.4	708.7	597.2	55- 60	282.9	2587
65.0	364.4	517.3	622.6	489.8	358.0	544.9	650.9	532.6	60- 65	264.4	2851
70.0	275.2	457.7	567.6	428.3	266.7	481.2	591.9	467.8	65- 70	240.9	3092
75.0	188.7	399.4	513.0	368.5	186.8	420.2	535.2	405.8	70- 75	213.8	3306
80.0	109.5	344.2	460.9	312.9	97.66	363.8	477.5	349.1	75- 80	184.4	3491
85.0	47.01	293.9	409.2	262.6	36.17	310.4	422.6	295.8	80- 85	155.6	3646
90.0	16.50	247.5	359.7	217.1	8.334	262.3	371.9	248.0	85- 90	129.8	3776
95.0	11.00	207.1	314.6	178.9	5.745	220.3	323.1	207.0	90- 95	109.2	3885
100.0	9.953	175.1	272.3	143.1	5.826	182.3	277.5	169.7	95-100	91.70	3977
105.0	9.467	128.7	231.7	104.3	6.068	135.7	234.9	124.6	100-105	73.71	4051
110.0	9.305	95.07	184.4	78.49	6.473	104.3	187.0	94.51	105-110	56.65	4107
115.0	9.305	77.60	154.6	61.57	6.716	84.07	154.5	76.22	110-115	43.77	4151
120.0	9.305	61.82	125.5	48.79	7.120	67.64	126.0	61.49	115-120	34.22	4185
125.0	9.386	49.27	102.0	38.51	7.444	54.86	100.9	50.00	120-125	26.55	4212
130.0	9.548	39.48	81.32	31.39	7.768	44.42	80.19	41.18	125-130	20.26	4232
135.0	9.710	31.63	63.68	25.32	8.172	35.92	60.68	33.58	130-135	15.25	4248
140.0	9.791	24.68	49.19	20.22	8.415	28.88	47.17	26.05	135-140	11.17	4259
145.0	9.953	18.77	37.30	16.42	8.739	22.98	35.36	20.47	140-145	7.987	4267
150.0	10.03	14.97	27.99	13.59	9.062	18.53	26.05	17.07	145-150	5.634	4272
155.0	10.11	12.46	21.20	11.65	9.305	15.37	19.09	14.64	150-155	3.964	4276
160.0	10.19	10.84	16.42	10.43	9.548	13.10	14.48	12.86	155-160	2.769	4279
165.0	10.27	9.953	13.51	9.791	9.791	11.73	11.49	11.65	160-165	1.913	4281
170.0	10.27	9.548	11.97	9.629	9.953	11.08	10.03	11.08	165-170	1.270	4282
175.0	10.27	9.467	11.32	9.629	10.03	10.84	9.629	10.76	170-175	0.740	4283
180.0	10.27	9.548	11.08	9.791	10.27	10.68	9.791	10.68	175-180	0.245	4283
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

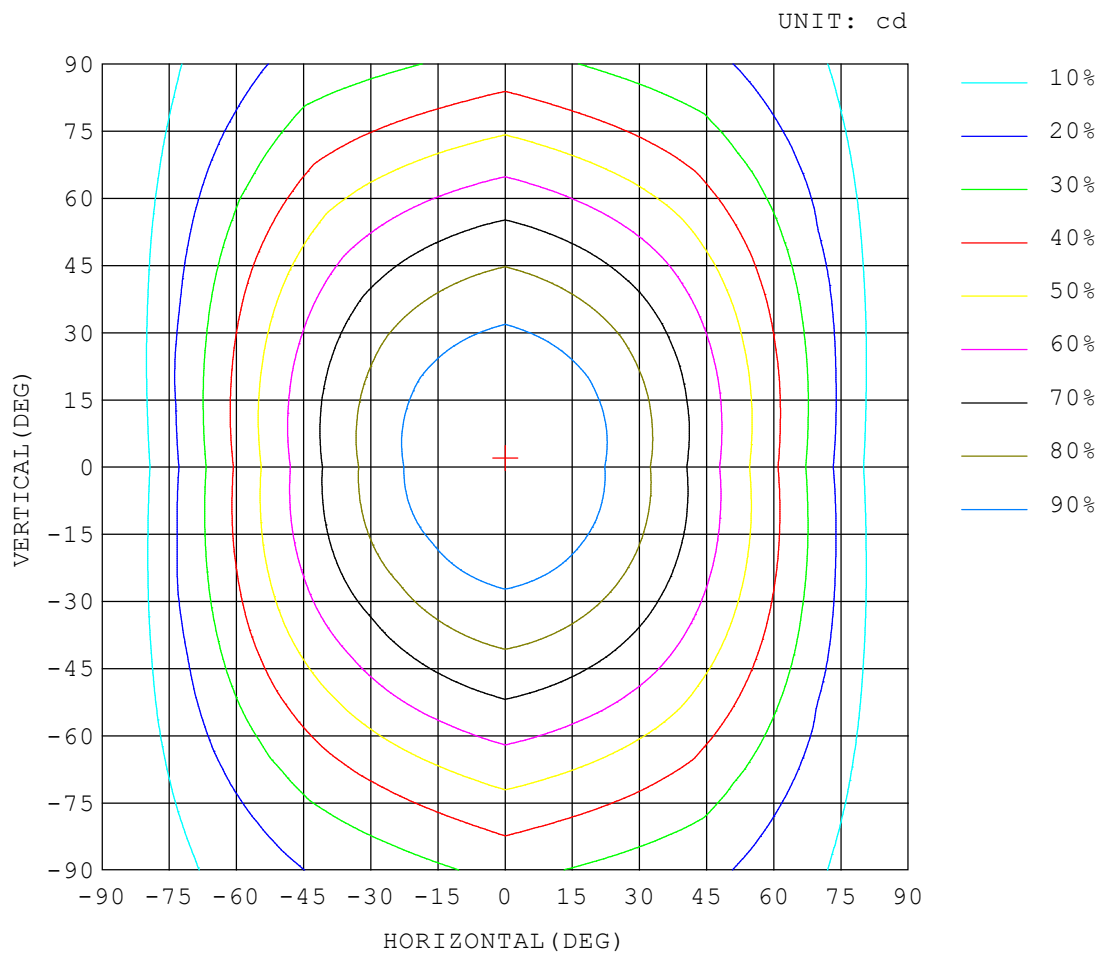
Test System:HOPOO  
Temperature:25.3DEG  
Operators:  
Test Date:2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N03540-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 0	DIMENSION:	SERIAL No. :



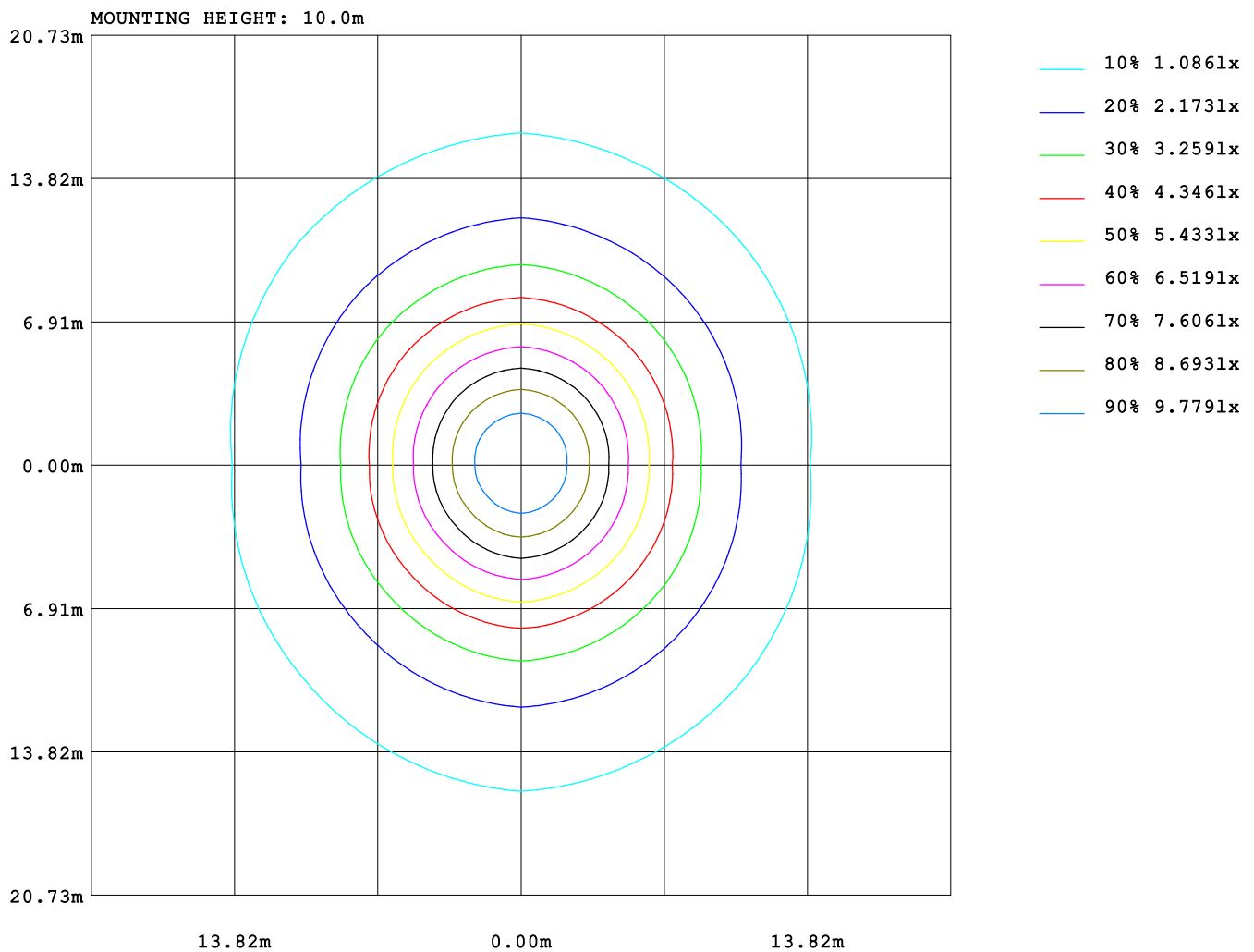
Test System:HOPOO  
Temperature:25.3DEG  
Operators:  
Test Date:2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N03540-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K): 0	DIMENSION:	SERIAL No.:



Test System:HOPOO  
Temperature:25.3DEG  
Operators:  
Test Date:2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Ava		TYPE: IL-TL27-N03540-120	WEIGHT:
SPECIFICATION: 2835LED 120deg	CCT (K) : 0	DIMENSION:	SERIAL No. :

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315
0.0	1086	1087	1089	1087	1086	1087	1089	1087
5.0	1081	1080	1083	1079	1081	1086	1089	1086
10.0	1064	1065	1070	1063	1066	1076	1082	1076
15.0	1037	1042	1050	1038	1040	1058	1069	1057
20.0	1000	1011	1026	1006	1003	1032	1050	1030
25.0	954	974	996	967	958	998	1024	996
30.0	900	929	961	920	904	957	993	954
35.0	840	879	922	868	842	910	957	906
40.0	771	825	879	811	773	856	914	851
45.0	697	766	832	750	700	798	869	791
50.0	620	705	783	686	620	738	818	729
55.0	537	644	730	621	535	674	764	664
60.0	451	580	676	555	449	608	709	597
65.0	364	517	623	490	358	545	651	533
70.0	275	458	568	428	267	481	592	468
75.0	189	399	513	369	187	420	535	406
80.0	110	344	461	313	97.6	364	478	349
85.0	47.0	294	409	263	36.1	310	423	296
90.0	16.5	248	360	217	8.33	262	372	248
95.0	11.0	207	315	179	5.74	220	323	207
100.0	9.95	175	272	143	5.82	182	278	170
105.0	9.46	129	232	104	6.06	136	235	125
110.0	9.30	95.0	184	78.4	6.47	104	187	94.5
115.0	9.30	77.6	155	61.5	6.71	84.0	155	76.2
120.0	9.30	61.8	126	48.7	7.12	67.6	126	61.4
125.0	9.38	49.2	102	38.5	7.44	54.8	101	50.0
130.0	9.54	39.4	81.3	31.3	7.76	44.4	80.1	41.1
135.0	9.71	31.6	63.6	25.3	8.17	35.9	60.6	33.5
140.0	9.79	24.6	49.1	20.2	8.41	28.8	47.1	26.0
145.0	9.95	18.7	37.3	16.4	8.73	22.9	35.3	20.4
150.0	10.0	14.9	27.9	13.5	9.06	18.5	26.0	17.0
155.0	10.1	12.4	21.2	11.6	9.30	15.3	19.0	14.6
160.0	10.1	10.8	16.4	10.4	9.54	13.1	14.4	12.8
165.0	10.2	9.95	13.5	9.79	9.79	11.7	11.4	11.6
170.0	10.2	9.54	11.9	9.62	9.95	11.0	10.0	11.0
175.0	10.2	9.46	11.3	9.62	10.0	10.8	9.62	10.7
180.0	10.2	9.54	11.0	9.79	10.2	10.6	9.79	10.6

Test System:HOPOO  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022.05.31

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:10.000 m  
 Remarks: