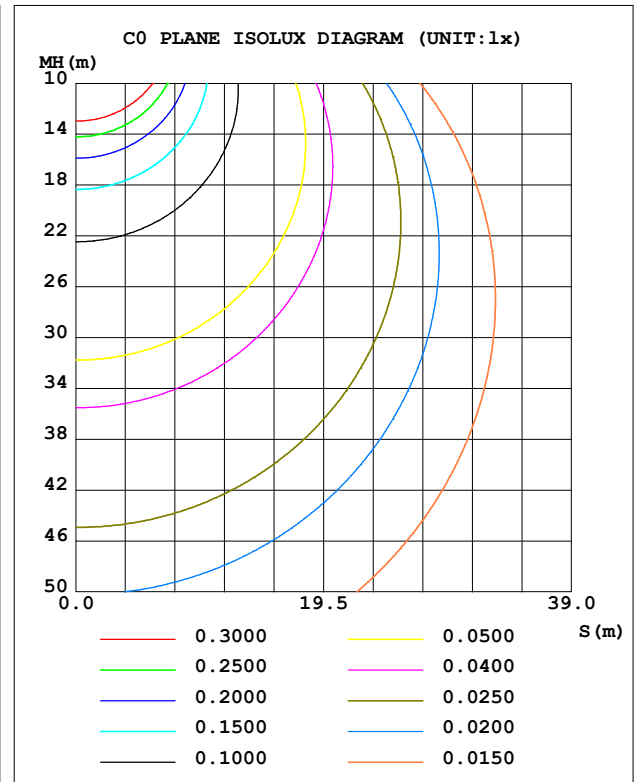
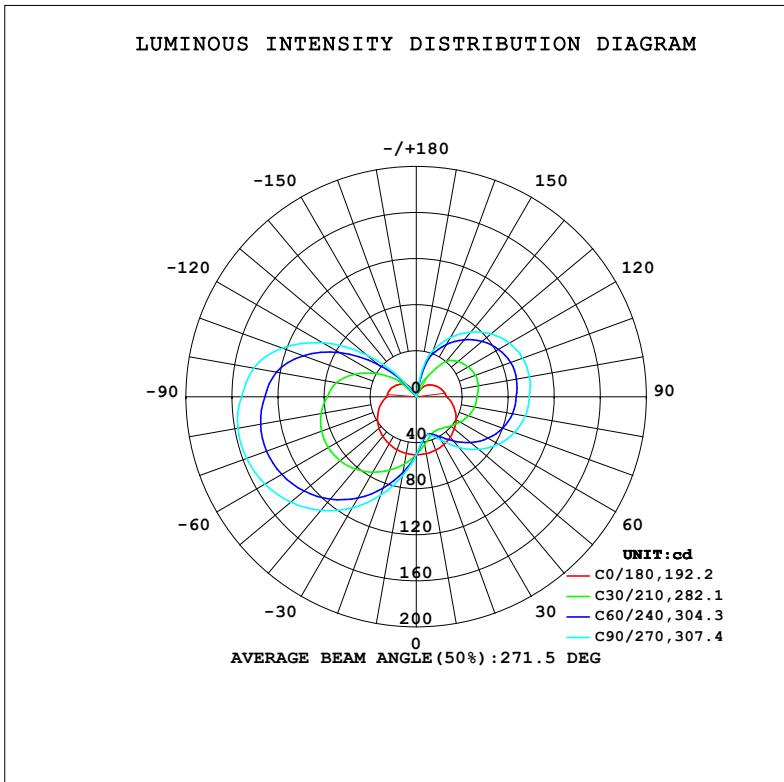


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 95MALIA12LED/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 130 x 130 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 2 circle	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	95MALIA12LED/WH	I _{max} (cd)	157.8	S/MH (C0/180)	1.42
NOMINAL POWER (W)	12	LOR (%)	126.3	S/MH (C90/270)	2.94
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	833.45	η UP, DN (C0-180)	27.1, 26.5
NOMINAL FLUX (lm)	660	CIE CLASS	DIFFUSE	η UP, DN (C180-360)	25.2, 47.5
LAMPS INSIDE	1	η up (%)	52.3	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	230	η down (%)	74.0	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 04 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	50.27	39.55	36.40	39.47	50.04	63.35	69.67	63.50	0- 10	4.861	4.861	0.58,0.74
20	49.49	34.26	35.52	34.32	49.05	76.90	91.02	77.35	10- 20	15.21	20.08	2.41,3.04
30	48.06	36.32	43.60	36.69	47.45	89.90	111.3	90.67	20- 30	27.55	47.63	5.71,7.22
40	46.03	42.60	57.48	43.28	45.26	101.0	128.8	102.0	30- 40	42.01	89.64	10.8,13.6
50	43.32	51.16	71.17	52.12	42.44	109.3	142.5	110.5	40- 50	57.60	147.2	17.7,22.3
60	39.94	59.50	82.51	60.65	38.99	114.4	151.8	115.7	50- 60	72.26	219.5	26.3,33.3
70	35.95	66.07	90.94	67.38	34.97	115.9	156.9	117.4	60- 70	84.08	303.6	36.4,46
80	31.46	70.30	96.23	71.73	30.49	113.7	157.4	115.2	70- 80	91.46	395.0	47.4,59.9
90	26.60	71.75	98.16	73.24	25.74	107.4	151.8	109.0	80- 90	93.15	488.2	58.6,74
100	24.70	73.76	99.89	75.22	24.77	99.62	143.4	101.3	90-100	90.41	578.6	69.4,87.7
110	22.15	73.07	98.37	74.46	22.78	82.85	123.9	84.05	100-110	82.42	661.0	79.3,100
120	19.30	69.25	93.43	70.53	20.21	59.46	94.00	60.06	110-120	67.33	728.4	87.4,110
130	16.12	62.95	85.02	64.11	17.25	34.07	57.42	34.00	120-130	48.78	777.1	93.2,118
140	13.01	54.51	73.53	55.51	14.13	13.41	18.44	12.67	130-140	30.58	807.7	96.9,122
150	6.568	40.96	59.38	44.72	6.570	1.935	0.5358	1.741	140-150	16.01	823.7	98.8,125
160	1.101	27.94	43.13	28.98	2.254	0.5577	0.5275	0.5506	150-160	7.412	831.1	99.7,126
170	0.8055	1.230	10.03	1.210	0.8081	0.5661	0.5582	0.5770	160-170	2.268	833.4	100,126
180	0	0	0	0	0	0	0	0	170-180	0.0447	833.5	100,126
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 116.5 lm

%lum = 14.0%

%lamp = 17.7%

Conical surface Flux(130deg): 260.31 lm

%lum = 31.2%

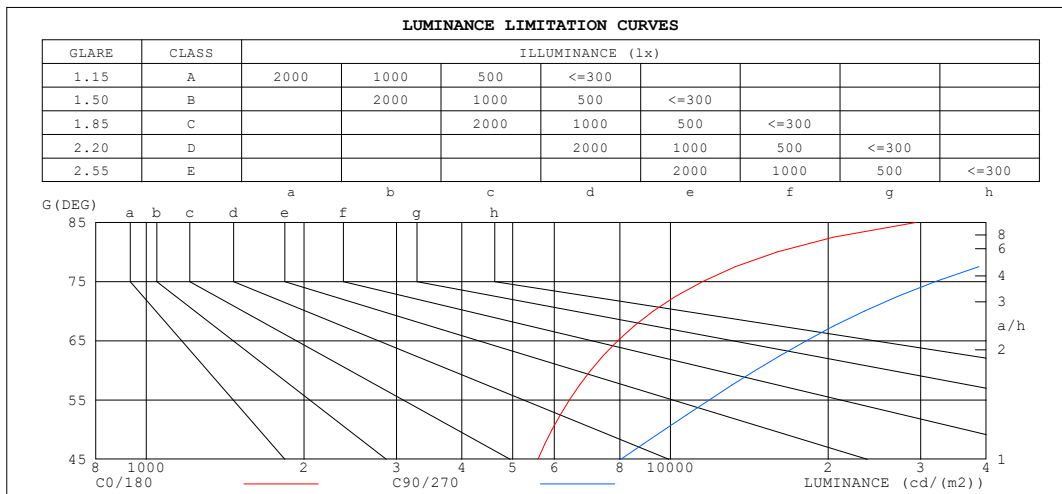
%lamp = 39.4%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:04 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: 95MALIA12LED/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 130 x 130 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 2 circle	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	29370	98709
80	15977	48802
75	11499	31974
70	9269	23414
65	7930	18152
60	7044	14532
55	6413	11846
50	5943	9750
45	5582	8042

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 04 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.340m [K=1.0000]
 Remarks:

```

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

```

WEC AND CCEC

NAME: 95MALIA12LED/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 130 x 130 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 2 circle	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.553	.315	.100	.528	.301	.096	.481	.276	.088	.437	.252	.081	.398	.230	.074	
2.0	.457	.251	.077	.434	.239	.074	.391	.218	.068	.352	.197	.062	.315	.178	.056	
3.0	.396	.211	.063	.375	.201	.060	.336	.182	.055	.299	.164	.050	.266	.147	.046	
4.0	.351	.182	.054	.332	.174	.051	.296	.157	.047	.262	.141	.042	.231	.126	.038	
5.0	.315	.161	.047	.298	.153	.045	.265	.138	.041	.234	.123	.037	.205	.110	.033	
6.0	.286	.143	.041	.270	.136	.039	.240	.123	.036	.211	.110	.032	.185	.097	.029	
7.0	.262	.130	.037	.247	.123	.035	.219	.111	.032	.193	.099	.029	.168	.087	.026	
8.0	.242	.118	.033	.228	.112	.032	.202	.101	.029	.178	.090	.026	.155	.079	.023	
9.0	.224	.109	.030	.212	.103	.029	.187	.093	.026	.165	.083	.024	.143	.073	.021	
10.0	.209	.100	.028	.197	.095	.027	.175	.086	.024	.154	.076	.022	.133	.067	.019	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.639	.639	.639	.546	.546	.546	.373	.373	.373	.214	.214	.214	.068	.068	.068	
1.0	.641	.598	.559	.548	.513	.481	.375	.353	.333	.216	.204	.193	.069	.066	.063	
2.0	.634	.571	.518	.543	.491	.447	.372	.340	.312	.215	.198	.183	.069	.064	.060	
3.0	.625	.551	.493	.536	.476	.427	.368	.330	.300	.212	.193	.177	.068	.063	.058	
4.0	.615	.537	.477	.528	.464	.414	.363	.323	.292	.210	.189	.173	.068	.062	.057	
5.0	.606	.525	.466	.520	.455	.405	.358	.318	.286	.208	.186	.170	.067	.061	.056	
6.0	.596	.516	.458	.513	.447	.399	.354	.313	.282	.205	.184	.168	.066	.060	.055	
7.0	.587	.508	.453	.505	.440	.394	.349	.309	.279	.203	.182	.166	.066	.060	.055	
8.0	.579	.501	.448	.498	.435	.391	.345	.305	.277	.201	.180	.165	.065	.059	.055	
9.0	.571	.496	.445	.492	.430	.388	.341	.302	.276	.199	.179	.164	.064	.059	.054	
10.0	.563	.491	.442	.486	.426	.386	.337	.300	.274	.197	.177	.164	.064	.058	.054	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:04 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: 95MALIA12LED/WH					TYPE:					WEIGHT: 1				
SPEC.:					DIM.: 130 x 130 x 120					SERIAL No.: 0				
MFR.: Elmark Industries JSC					SUR.: 2 circle					Shielding Angle:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3				
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3				
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
Room dimensions		Viewed crosswise					Viewed endwise							
x = 2H y = 2H	15.3	16.5	16.1	17.3	18.3	20.1	21.3	20.8	22.1	23.1				
3H	18.0	19.1	18.8	19.9	21.0	24.0	25.1	24.8	25.9	26.9				
4H	19.5	20.5	20.3	21.4	22.5	26.1	27.1	26.9	28.0	29.1				
6H	21.2	22.2	22.0	23.0	24.1	28.4	29.4	29.2	30.2	31.3				
8H	22.2	23.1	23.0	24.0	25.1	29.7	30.6	30.5	31.5	32.6				
12H	23.3	24.2	24.1	25.1	26.2	31.1	32.0	31.9	32.9	34.0				
4H 2H	17.8	18.9	18.6	19.7	20.8	20.7	21.7	21.5	22.6	23.7				
3H	20.5	21.4	21.3	22.2	23.4	24.8	25.7	25.7	26.6	27.7				
4H	21.9	22.7	22.8	23.6	24.8	27.2	28.0	28.0	28.9	30.0				
6H	23.5	24.2	24.3	25.1	26.3	29.7	30.4	30.6	31.3	32.5				
8H	24.3	25.0	25.2	25.9	27.1	31.1	31.8	32.0	32.7	33.9				
12H	25.3	26.0	26.2	26.9	28.1	32.6	33.3	33.5	34.2	35.4				
8H 4H	23.9	24.6	24.8	25.6	26.7	27.6	28.3	28.5	29.2	30.4				
6H	25.8	26.4	26.7	27.3	28.5	30.4	31.0	31.4	32.0	33.2				
8H	26.7	27.3	27.7	28.2	29.4	32.0	32.6	33.0	33.5	34.8				
12H	27.7	28.2	28.7	29.2	30.4	33.9	34.3	34.8	35.3	36.5				
12H 4H	24.6	25.3	25.6	26.2	27.4	27.6	28.3	28.5	29.2	30.4				
6H	26.7	27.3	27.7	28.2	29.4	30.6	31.1	31.5	32.1	33.3				
8H	27.9	28.3	28.8	29.3	30.5	32.3	32.8	33.3	33.8	35.0				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1								
1.5H	+ 0.2 / - 0.1					+ 0.2 / - 0.3								
2.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.4								

CIE Pub.117, 660.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.4)
Area: 0.0113433 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:04 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: 95MALIA12LED/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 130 x 130 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 2 circle	Shielding Angle:

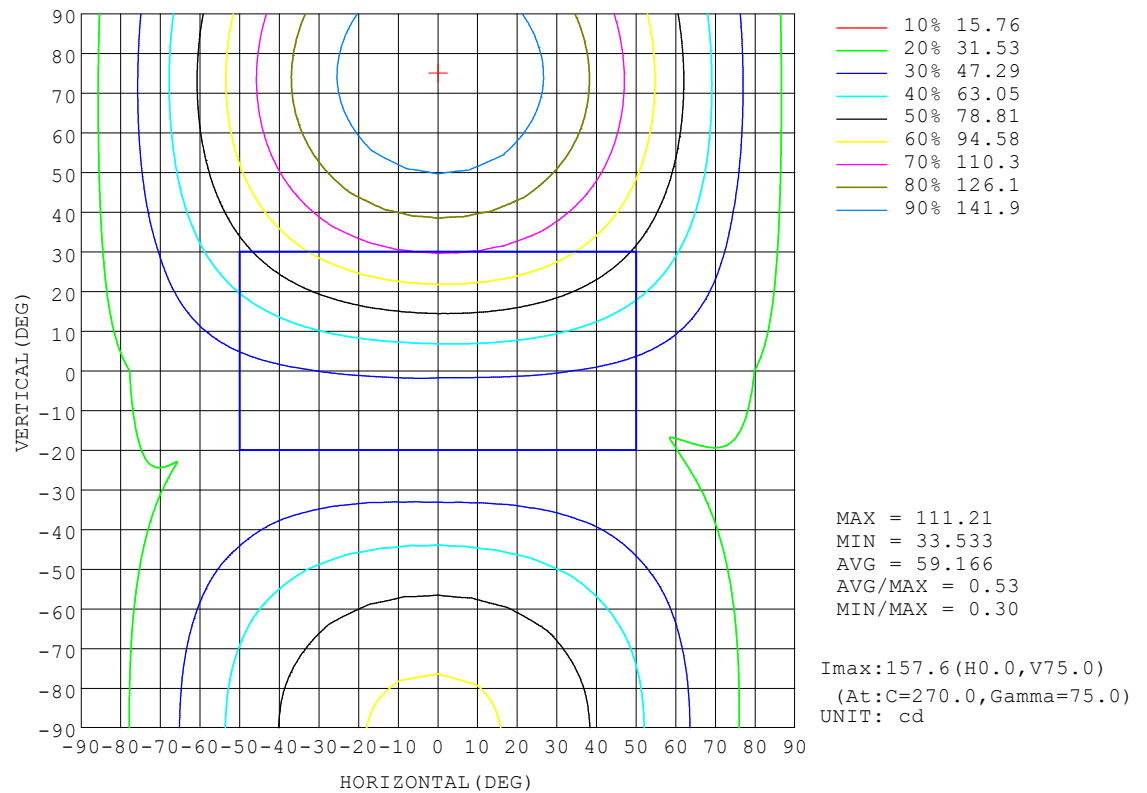
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	46	30	20	44	29	20	40	27	18	10
0.80	57	39	28	54	37	27	49	34	25	14
1.00	66	47	35	62	45	34	55	44	31	18
1.25	75	56	44	70	53	42	62	48	38	22
1.50	81	63	50	76	60	48	67	53	44	26
2.00	91	74	62	85	70	59	74	62	53	32
2.50	98	82	70	91	77	66	79	68	59	36
3.00	103	88	77	96	83	72	83	73	64	40
4.00	110	97	87	102	91	82	88	80	72	45
5.00	114	103	94	106	97	88	92	84	77	49
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 04 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 95MALIA12LED/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 130 x 130 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 2 circle	Shielding Angle:

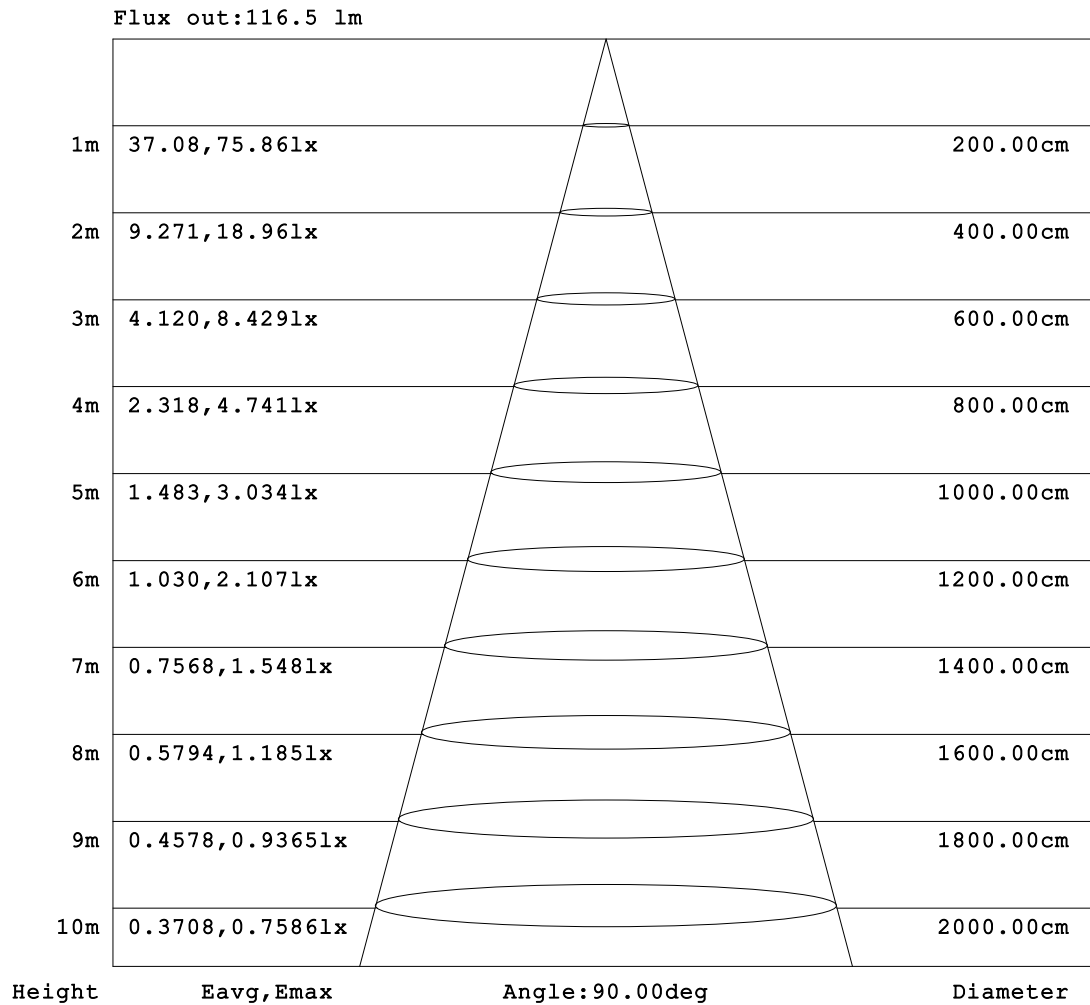


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 04 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

AAI Figure

NAME: 95MALIA12LED/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 130 x 130 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 2 circle	Shielding Angle:



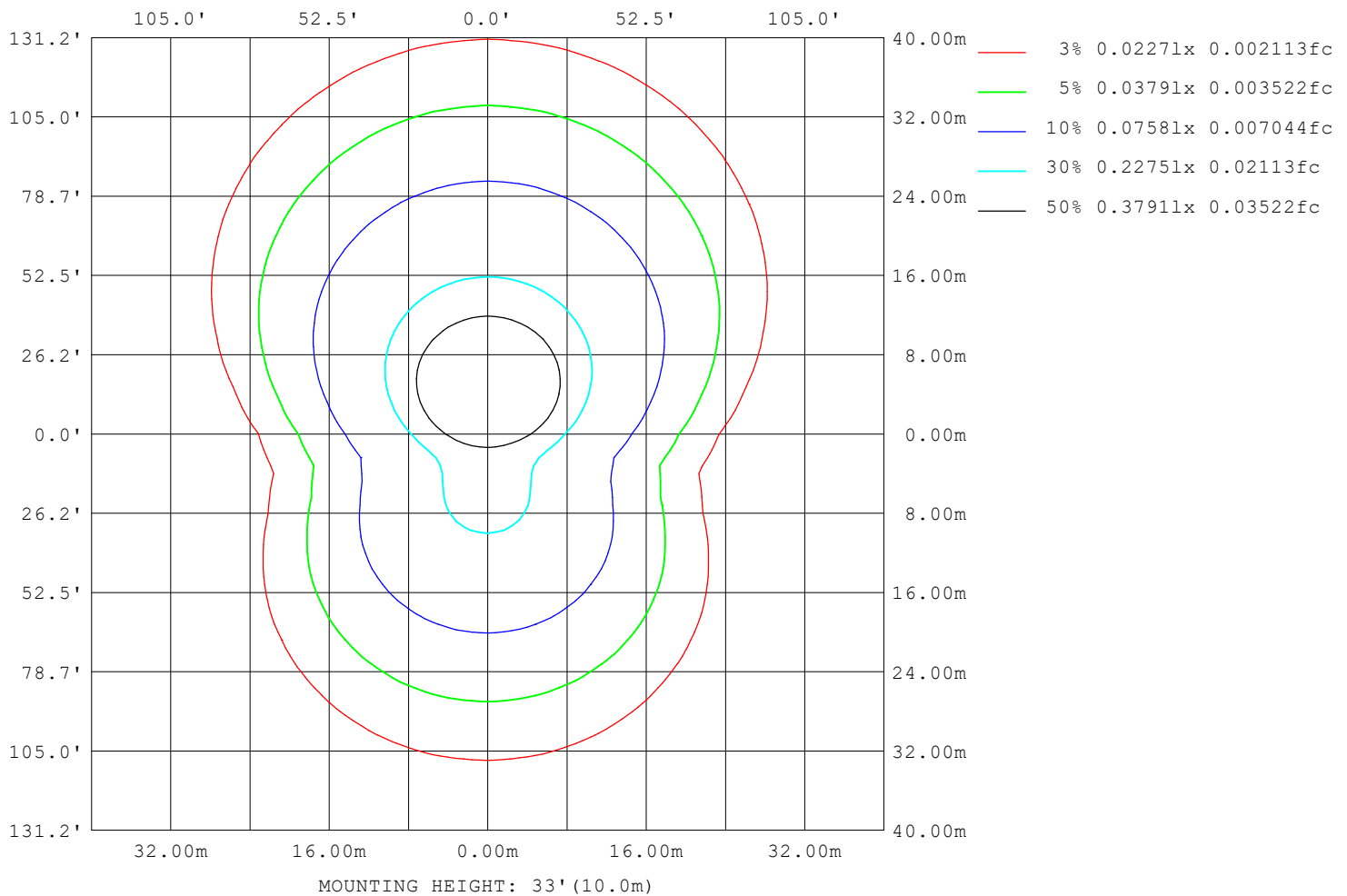
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 04 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.340m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: 95MALIA12LED/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 130 x 130 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 2 circle	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 04 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.340m [K=1.0000]
 Remarks:

LED Avg.L Report

NAME: 95MALIA12LED/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 130 x 130 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 2 circle	Shielding Angle:

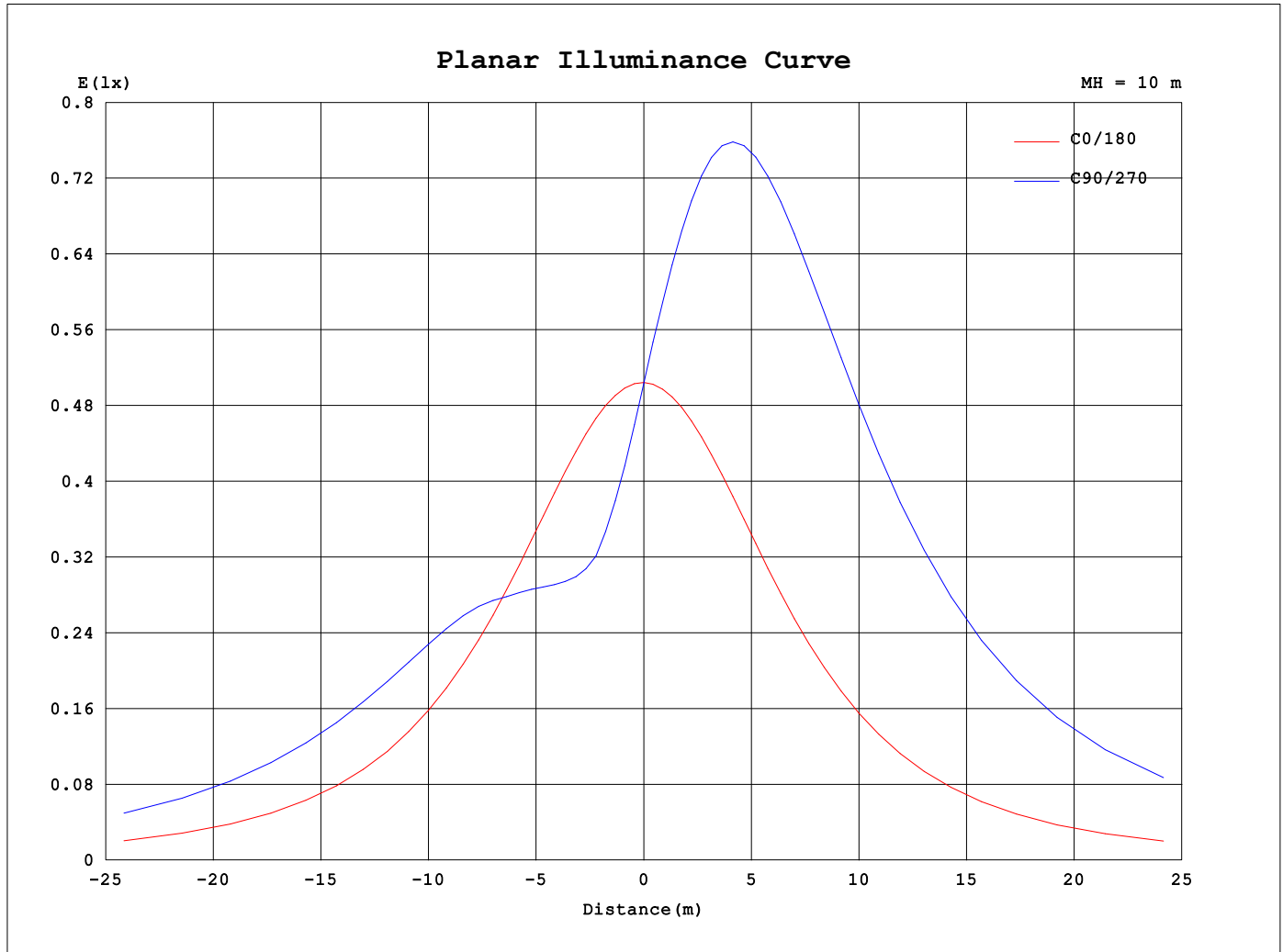
AvgL	cd/m2
L_0~180 (65) av	7828
L_0~180 (75) av	11332
L_0~180 (85) av	28879
L_90~270 (65) av	25237
L_90~270 (75) av	42878
L_90~270 (85) av	128032
L_45 (65) av	18833
L_45 (75) av	31660
L_45 (85) av	93319

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:04 January 2023

γ Range: 0 - 170DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 04 January 2023

γ Range: 0 - 170DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.340m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 95MALIA12LED/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 130 x 130 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 2 circle	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
5	50.4	48.9	47.5	46.2	45.0	44.0	43.2	42.6	42.3	42.2	42.2	42.6	43.1	43.9	44.9	46.1	47.4	48.8	50.3
10	50.3	47.3	44.5	42.1	40.3	38.8	37.8	37.0	36.5	36.4	36.5	37.0	37.7	38.8	40.2	42.0	44.4	47.1	50.0
15	50.0	45.6	41.8	38.9	36.7	35.0	34.4	34.2	34.2	34.2	34.2	34.2	34.4	35.0	36.6	38.8	41.6	45.3	49.6
20	49.5	43.9	39.5	36.2	34.4	34.1	34.4	35.0	35.4	35.5	35.4	35.0	34.6	34.2	34.4	36.0	39.3	43.5	49.1
25	48.9	42.3	37.4	34.3	34.2	35.1	36.4	37.6	38.5	38.8	38.6	37.7	36.6	35.3	34.4	34.4	37.2	41.9	48.3
30	48.1	40.8	35.4	34.0	35.3	37.4	39.8	41.8	43.2	43.6	43.3	42.0	40.1	37.7	35.6	34.3	35.2	40.3	47.4
35	47.1	39.2	34.1	34.6	37.3	40.8	44.5	47.4	49.3	50.0	49.4	47.6	44.9	41.3	37.8	35.1	34.3	38.7	46.4
40	46.0	37.5	33.7	35.7	40.1	45.1	50.2	54.0	56.6	57.5	56.8	54.3	50.6	45.8	40.8	36.5	34.1	37.0	45.3
45	44.8	35.8	33.6	37.4	43.4	50.1	56.1	60.7	63.6	64.6	63.8	61.0	56.7	50.9	44.3	38.3	34.4	35.3	43.9
50	43.3	34.0	33.9	39.4	47.2	55.1	61.9	66.9	70.1	71.2	70.4	67.4	62.6	56.0	48.2	40.5	34.9	33.7	42.4
55	41.7	32.5	34.5	41.6	51.1	59.9	67.3	72.7	76.1	77.2	76.3	73.2	68.1	60.9	52.2	43.0	35.7	32.8	40.8
60	39.9	31.5	35.2	44.0	54.7	64.3	72.2	77.8	81.4	82.5	81.6	78.4	73.0	65.3	56.0	45.5	36.6	32.1	39.0
65	38.0	30.7	36.0	46.3	58.0	68.1	76.4	82.3	85.9	87.1	86.2	82.9	77.3	69.2	59.4	47.9	37.6	31.6	37.0
70	36.0	30.0	36.7	48.5	60.8	71.3	79.9	86.0	89.7	90.9	90.1	86.7	80.9	72.5	62.2	50.2	38.5	31.1	35.0
75	33.8	29.3	37.4	50.2	63.0	73.9	82.8	89.0	92.8	94.0	93.1	89.7	83.8	75.2	64.6	52.0	39.2	30.6	32.8
80	31.5	28.6	37.9	51.5	64.7	75.9	84.9	91.3	95.0	96.2	95.4	92.0	86.0	77.2	66.3	53.4	39.8	30.1	30.5
85	29.0	27.9	38.1	52.3	65.6	77.0	86.2	92.6	96.5	97.7	96.8	93.3	87.2	78.4	67.3	54.2	40.1	29.5	28.1
90	26.6	27.2	38.1	52.6	66.0	77.5	86.7	93.2	97.0	98.2	97.3	93.9	87.8	78.8	67.7	54.5	40.2	28.9	25.7
95	25.6	27.9	39.4	53.9	67.3	78.7	87.9	94.3	97.9	99.4	98.3	95.0	88.9	80.1	69.0	55.8	41.5	29.6	25.2
100	24.7	28.6	40.5	54.9	68.1	79.4	88.4	94.8	98.4	99.9	98.8	95.4	89.5	80.7	69.8	56.8	42.5	30.3	24.8
105	23.4	28.6	40.9	55.2	68.3	79.4	88.4	94.6	98.2	99.6	98.5	95.2	89.4	80.7	69.9	57.0	42.9	30.3	23.8
110	22.1	28.3	40.6	54.7	67.6	78.5	87.3	93.5	97.2	98.4	97.4	94.1	88.3	79.8	69.2	56.5	42.6	29.9	22.8
115	20.8	27.8	40.0	53.7	66.2	76.8	85.4	91.5	95.2	96.3	95.4	92.1	86.3	78.0	67.7	55.4	41.9	29.4	21.6
120	19.3	26.9	39.0	52.1	64.1	74.4	82.7	88.6	92.2	93.4	92.5	89.2	83.6	75.5	65.6	53.8	40.8	28.5	20.2
125	17.7	25.9	37.6	50.1	61.5	71.3	79.2	84.9	88.4	89.6	88.7	85.5	80.0	72.3	62.9	51.7	39.3	27.4	18.8
130	16.1	24.6	35.9	47.6	58.3	67.5	75.0	80.5	83.9	85.0	84.1	81.0	75.8	68.6	59.6	49.1	37.5	26.1	17.2
135	14.6	22.8	33.0	44.8	54.7	63.2	70.2	75.3	78.5	79.6	78.8	75.9	71.0	64.2	55.9	46.1	35.4	24.3	15.7
140	13.0	19.5	26.1	40.1	50.6	58.4	64.8	69.5	72.5	73.5	72.7	70.0	65.5	59.3	51.7	42.8	32.0	21.2	14.1
145	10.3	15.1	17.2	30.8	44.2	53.1	58.9	63.2	65.8	66.7	66.0	63.6	59.5	53.9	47.0	38.3	25.2	16.9	10.9
150	6.57	9.32	10.02	21.8	35.9	46.0	52.4	56.2	58.6	59.4	58.7	56.6	53.0	48.0	41.4	31.5	16.3	11.3	6.57
155	2.55	3.15	3.52	15.4	29.4	39.2	45.5	48.8	50.8	51.5	50.9	49.1	46.0	41.7	34.4	22.3	6.90	5.44	3.12
160	1.10	0.73	0.81	9.37	23.0	32.9	38.2	40.9	42.6	43.1	42.7	41.1	38.5	33.6	24.4	10.3	1.31	1.52	2.25
165	1.02	1.09	0.70	1.62	8.85	17.9	25.1	29.9	32.0	32.7	32.0	29.9	25.0	17.7	8.64	1.54	0.75	1.27	1.55
170	0.81	2.35	1.28	0.80	0.76	1.70	4.56	7.39	9.39	10.0	9.30	7.25	4.40	1.63	0.79	0.81	1.29	2.12	0.81
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:04 January 2023

γ Range: 0 - 170DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 95MALIA12LED/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 130 x 130 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 2 circle	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4		
5	51.9	53.4	54.8	56.2	57.3	58.3	59.0	59.5	59.7	59.5	59.1	58.4	57.4	56.2	54.9	53.5	52.0		
10	53.1	56.2	59.2	62.1	64.6	66.7	68.3	69.3	69.7	69.4	68.4	66.8	64.7	62.3	59.4	56.4	53.3		
15	54.2	58.9	63.6	68.1	72.1	75.5	78.1	79.7	80.3	79.8	78.2	75.7	72.4	68.4	64.0	59.3	54.5		
20	55.1	61.5	67.9	74.1	79.7	84.4	88.0	90.2	91.0	90.4	88.2	84.8	80.1	74.6	68.4	61.9	55.5		
25	55.8	63.8	72.0	80.0	87.2	93.2	97.7	101	101	101	98.0	93.7	87.7	80.6	72.7	64.4	56.3		
30	56.2	65.8	75.7	85.5	94.3	102	107	110	111	110	107	102	94.9	86.4	76.6	66.6	56.8		
35	56.3	67.4	79.1	90.7	101	109	115	119	120	119	116	110	102	91.7	80.3	68.4	57.1		
40	56.1	68.7	82.1	95.2	107	116	123	127	129	128	123	117	108	96.4	83.5	69.9	57.0		
45	55.6	69.6	84.6	99.2	112	122	130	135	136	135	130	123	113	100	86.1	71.0	56.7		
50	54.8	70.0	86.4	102	116	127	136	141	142	141	136	128	117	104	88.1	71.6	56.1		
55	53.7	69.9	87.7	105	120	132	140	146	148	146	141	133	121	106	89.5	71.7	55.1		
60	52.3	69.4	88.3	107	122	135	144	150	152	150	145	136	123	108	90.2	71.4	53.9		
65	50.6	68.5	88.3	107	124	137	147	153	155	153	147	138	125	109	90.3	70.5	52.3		
70	48.7	67.0	87.6	107	124	138	148	155	157	155	149	139	126	109	89.7	69.2	50.5		
75	46.4	65.0	86.1	106	124	138	149	155	158	156	149	140	125	108	88.3	67.3	48.3		
80	43.9	62.5	83.9	105	123	137	148	155	157	155	149	138	124	106	86.2	64.9	45.9		
85	41.1	59.6	80.9	102	120	135	146	153	155	153	146	136	121	104	83.2	62.0	43.1		
90	38.2	56.2	77.3	98.3	117	132	142	149	152	150	143	133	118	100	79.6	58.6	40.1		
95	36.7	54.0	74.6	95.3	113	128	139	146	148	146	140	129	115	97.2	76.9	56.3	38.5		
100	34.7	50.9	70.5	90.7	109	123	134	141	143	141	135	124	110	92.6	72.8	53.2	36.4		
105	31.8	46.5	64.6	83.8	101	115	126	133	135	133	127	116	102	85.4	66.6	48.4	33.3		
110	28.5	41.3	57.3	74.8	90.9	105	115	122	124	122	115	105	91.9	76.2	59.0	42.9	29.8		
115	25.1	35.7	49.2	64.5	79.0	91.6	101	108	110	108	102	92.2	79.8	65.5	50.4	36.9	26.0		
120	21.5	29.9	40.7	53.2	65.7	76.9	85.8	92.0	94.0	92.2	86.1	77.3	66.2	53.9	41.5	30.7	22.1		
125	18.0	24.2	32.2	41.7	51.5	60.9	68.9	74.5	76.3	74.6	69.2	61.2	51.8	42.0	32.6	24.6	18.3		
130	14.6	18.8	24.3	30.7	37.4	44.5	51.2	56.0	57.4	56.0	51.3	44.6	37.4	30.6	24.3	18.9	14.7		
135	11.7	14.1	17.2	20.9	24.5	28.7	33.2	36.8	37.8	36.7	33.1	28.5	24.0	20.5	17.0	13.9	11.5		
140	9.45	9.79	11.3	12.8	14.0	15.4	16.7	18.0	18.4	17.8	16.1	14.7	13.2	12.2	10.7	9.34	8.55		
145	7.59	6.08	6.41	6.62	6.23	5.91	5.50	3.83	1.81	2.94	4.63	5.07	5.38	5.87	5.64	5.46	5.86		
150	5.27	3.27	2.83	2.04	1.83	0.55	0.72	0.53	0.54	0.52	0.63	0.52	1.43	2.05	2.27	2.47	3.44		
155	2.71	1.53	0.91	0.73	0.56	0.53	0.53	0.53	0.53	0.52	0.52	0.51	0.53	0.73	0.81	0.80	1.96		
160	0.96	0.77	0.59	0.57	0.55	0.55	0.53	0.53	0.53	0.53	0.52	0.54	0.53	0.57	0.57	0.60	0.71		
165	0.64	0.60	0.58	0.57	0.55	0.56	0.54	0.56	0.54	0.55	0.53	0.56	0.54	0.58	0.57	0.61	0.63		
170	0.61	0.60	0.58	0.58	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.57	0.57	0.58	0.59	0.61	0.63		
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:04 January 2023

γ Range: 0 - 170DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks: