

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

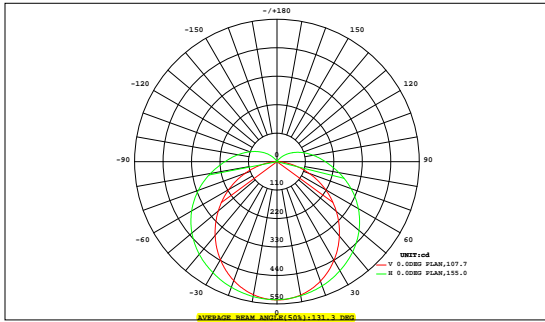
Maximum Intensity (Luminaire orientation as tested.)		243.5 cd per klm. 0.5 degrees vertical 1.0 degrees horizontal
Beam Spread	At 10% of I _{max} At 50% of I _{max} At 90% of I _{max}	252.9V x 159.5H 155.0V x 107.7H 67.5V x 44.1H
Beam Flux	Total To 10% of I _{max} To 50% of I _{max} To 90% of I _{max}	1000.0 lumens per klm. 972.5 lumens per klm. 678.4 lumens per klm. 161.7 lumens per klm.
	Upward LOR Downward LOR	12.2 % 87.8 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.9DEG
Operators:Bishoy Wagih
Test Date:07 April 2021

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.413
Humidity:25.2%
Test Distance:8.816m [K=1.0000]
Remarks: xxx LED DUST WATER PROOF 60cm-18W 6000K

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.90V I:0.1135A P:21.340W PF:0.8552 Freq:49.99Hz Lamp Flux:2194.72x1 lm		
NAME: xxx	TYPE:LED DUST WATER PROOF 60cm WEIGHT:0.850 kg	
SPEC.:18W 6000K	DIM.: 670*70*70 mm	SERIAL No.:
MFR.: Sega-M Electrical Products	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:102.84lm/W	
MODEL		Imax(cd)	534.4
NOMINAL POWER(W)	18	AVAILABILITY(%)	97.2
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	2133
NOMINAL FLUX(lm)	2194.72	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2195
TEST VOLTAGE(V)	220	θ @50%(H,V)	108,155DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM															UNIT:lm		φ t	φ a	
	0.05	0.36	1.05	2.06	3.27	4.52	5.64	6.49	6.93	6.90	6.42	5.55	4.42	3.19	2.01	1.03	0.35			0.05
90	0.05	0.36	1.05	2.06	3.27	4.52	5.64	6.49	6.93	6.90	6.42	5.55	4.42	3.19	2.01	1.03	0.35	0.05	60.3	59.7
80	0.06	0.43	1.28	2.54	4.06	5.65	7.11	8.22	8.80	8.77	8.14	7.01	5.54	3.97	2.48	1.26	0.43	0.06	75.8	75.4
70	0.07	0.51	1.52	3.02	4.85	6.77	8.55	9.90	10.6	10.6	9.82	8.44	6.66	4.76	2.96	1.49	0.50	0.07	91.1	90.8
60	0.07	0.58	1.75	3.46	5.56	7.77	9.82	11.4	12.2	12.2	11.3	9.71	7.66	5.48	3.41	1.72	0.57	0.07	105	104
50	0.08	0.64	1.94	3.84	6.16	8.61	10.9	12.6	13.5	13.5	12.5	10.8	8.50	6.08	3.79	1.91	0.63	0.08	116	116
40	0.09	0.69	2.09	4.14	6.62	9.25	11.7	13.5	14.5	14.5	13.4	11.6	9.16	6.54	4.09	2.07	0.69	0.08	125	125
30	0.09	0.74	2.19	4.36	6.97	9.73	12.3	14.2	15.3	15.2	14.2	12.2	9.64	6.91	4.32	2.17	0.73	0.09	131	131
20	0.09	0.76	2.26	4.48	7.19	10.0	12.7	14.7	15.8	15.7	14.6	12.6	9.98	7.14	4.45	2.25	0.75	0.09	136	135
10	0.09	0.76	2.29	4.55	7.29	10.2	12.9	14.9	16.1	16.0	14.9	12.8	10.1	7.23	4.51	2.27	0.75	0.08	138	138
0	0.09	0.76	2.29	4.54	7.28	10.2	12.8	14.9	16.0	16.0	14.8	12.8	10.1	7.21	4.50	2.26	0.75	0.08	137	137
-10	0.09	0.76	2.25	4.44	7.12	9.95	12.6	14.6	15.6	15.6	14.5	12.5	9.87	7.06	4.41	2.23	0.75	0.09	134	134
-20	0.09	0.73	2.15	4.28	6.85	9.58	12.1	14.0	15.0	15.0	13.9	12.0	9.49	6.79	4.24	2.14	0.72	0.09	129	129
-30	0.08	0.68	2.03	4.03	6.47	9.03	11.4	13.2	14.2	14.2	13.1	11.3	8.94	6.40	3.99	2.01	0.67	0.08	122	122
-40	0.08	0.62	1.87	3.72	5.96	8.33	10.5	12.2	13.1	13.1	12.1	10.4	8.24	5.88	3.67	1.84	0.62	0.08	112	112
-50	0.07	0.56	1.67	3.33	5.33	7.46	9.40	10.9	11.7	11.7	10.8	9.30	7.35	5.25	3.28	1.64	0.55	0.07	100	100
-60	0.06	0.48	1.45	2.88	4.60	6.43	8.09	9.38	10.1	10.0	9.30	7.99	6.32	4.51	2.82	1.42	0.48	0.06	86.3	86.0
-70	0.06	0.41	1.21	2.39	3.82	5.31	6.66	7.69	8.23	8.20	7.61	6.56	5.20	3.73	2.34	1.18	0.40	0.06	71.0	70.6
-80	0.05	0.34	0.99	1.93	3.05	4.21	5.25	6.02	6.42	6.40	5.96	5.16	4.12	2.97	1.88	0.96	0.33	0.05	56.1	55.4
-90	0.05	0.34	0.99	1.93	3.05	4.21	5.25	6.02	6.42	6.40	5.96	5.16	4.12	2.97	1.88	0.96	0.33	0.05	56.1	55.4
φ t	1.36	10.8	32.3	64.0	102	143	180	209	224	224	208	179	141	101	63.1	31.8	10.7	1.33	1926	---
φ a	0.00	9.52	32.3	64.0	102	143	180	209	224	224	208	179	141	101	63.1	31.8	9.33	0.00	---	1921

one-half-peak spread: U:76.5,D:77.4 , L:53.3,R:55.0

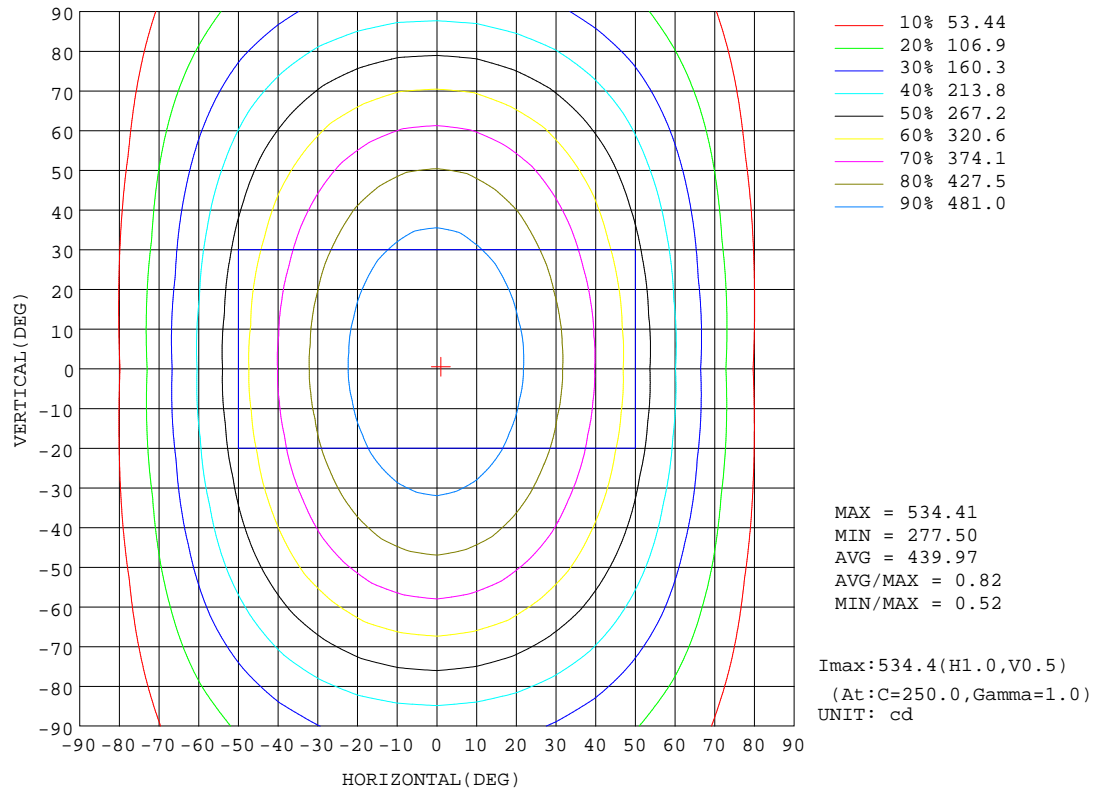
NEMA Beam Type: Type 7

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.9DEG
 Operators:Bishoy Wagih
 Test Date:07 April 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.413
 Humidity:25.2%
 Test Distance:8.816m [K=1.0000]
 Remarks: xxx LED DUST WATER PROOF 60cm-18W 6000K

ISOCANDELA DIAGRAM

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SPEC.:18W 6000K	DIM.: 670*70*70 mm	SERIAL No.:
MFR.: Sega-M Electrical Products	SUR.:	Shielding Angle:

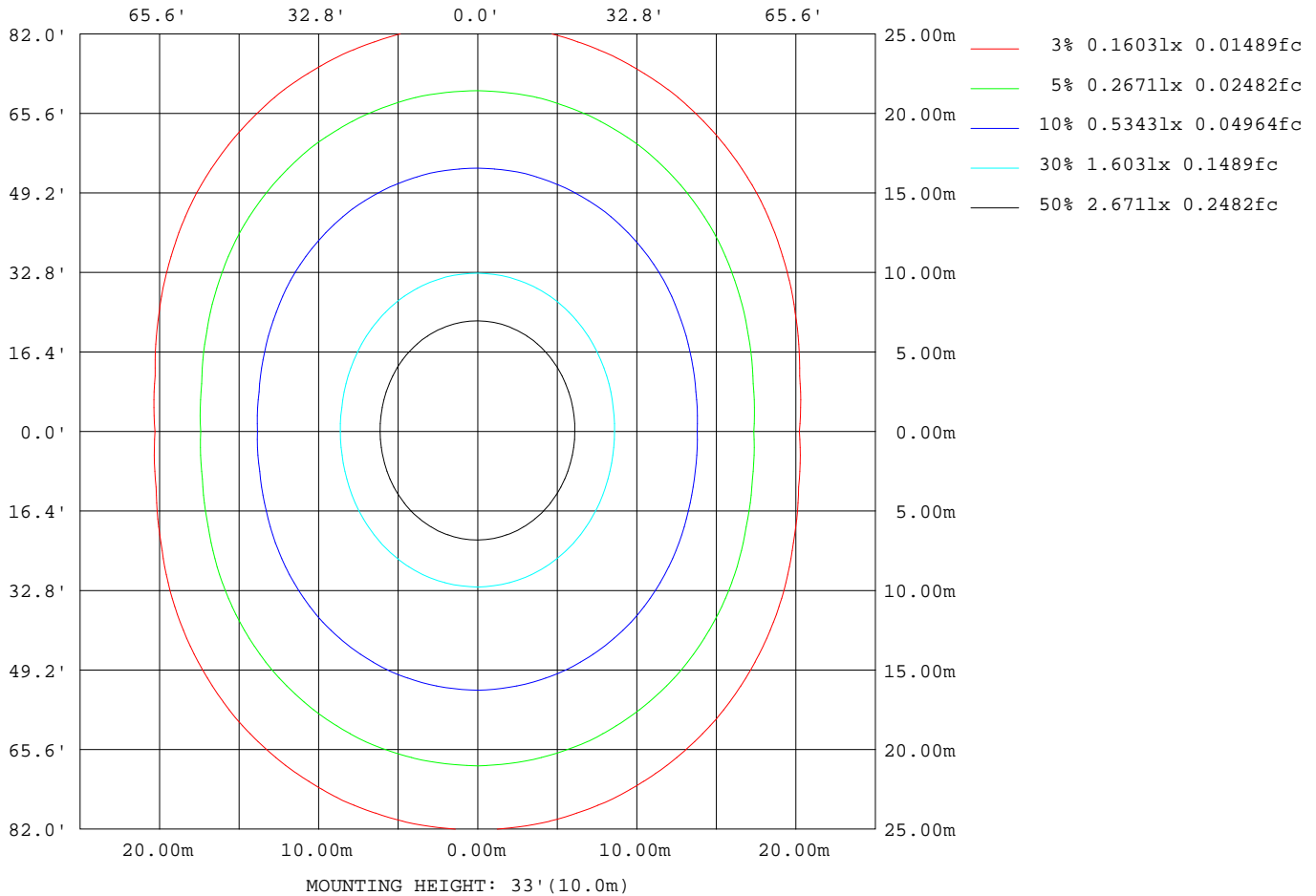


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ISOLUX DIAGRAM

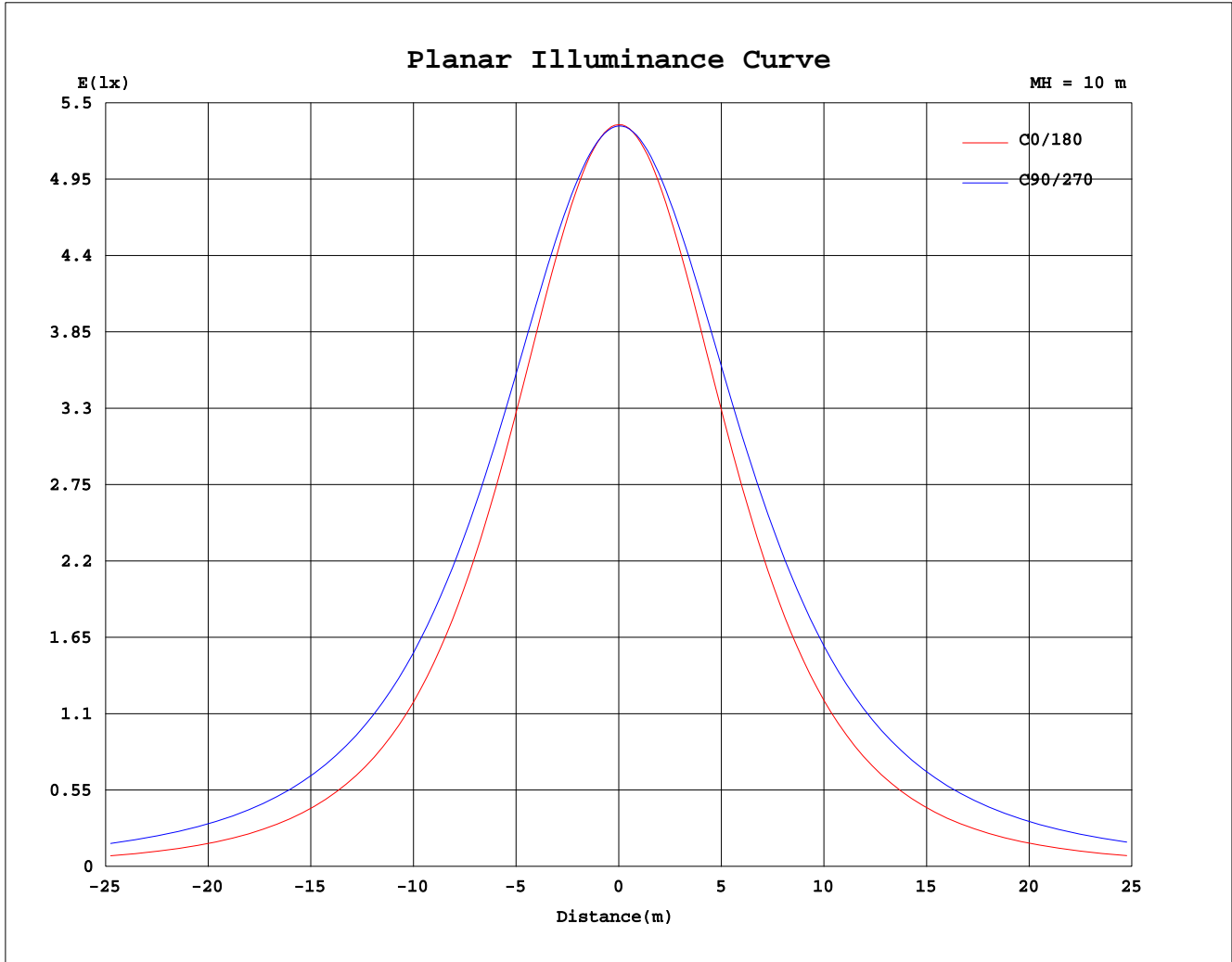
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Planar Illuminance Curve

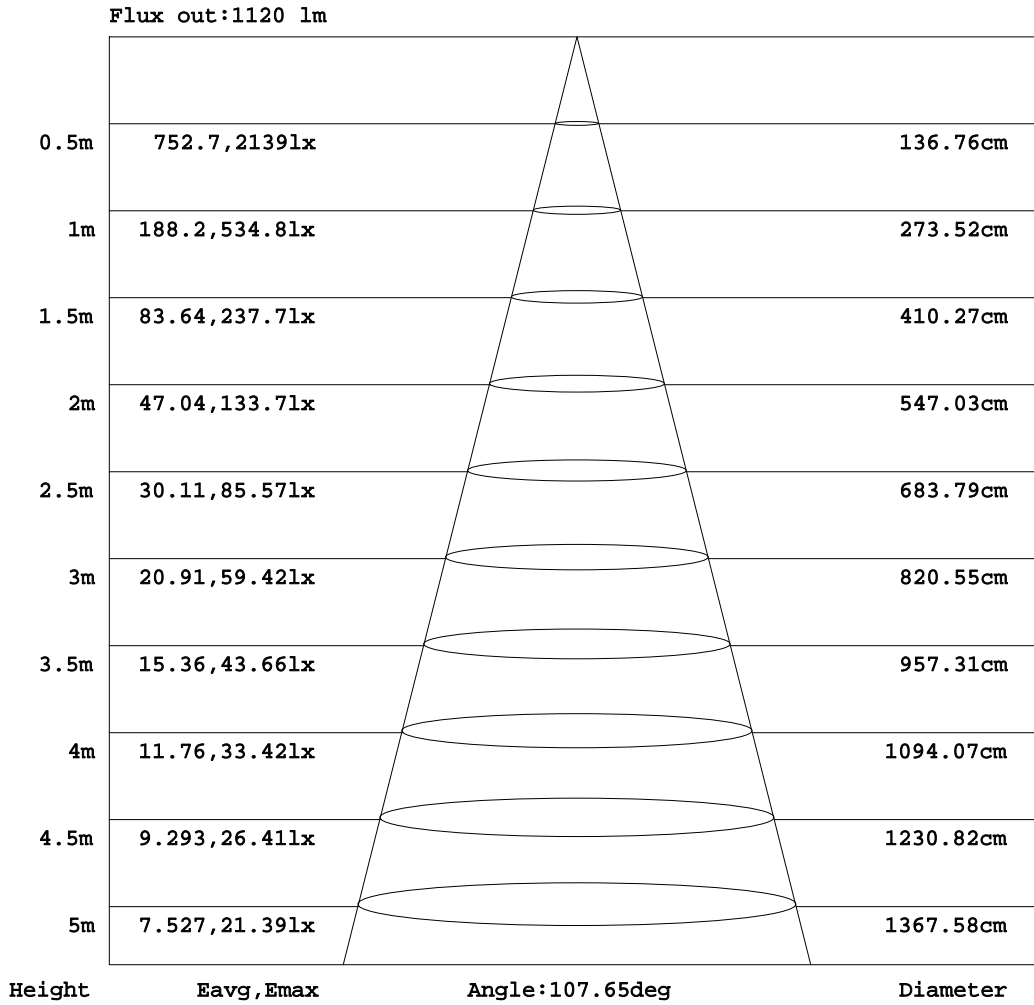


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AAI Figure

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MFR.: Sega-M Electrical Products	SUR.:	Shielding Angle:



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

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Test Speed: HIGH
Temperature:25.9DEG
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LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.: Sega-M Electrical Products	SUR.:	Shielding Angle:

Table--1

UNIT: cd

H(DEG) V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	7.27	6.66	6.08	5.51	4.94	4.41	3.91	3.49	3.13	2.83	2.59	2.44	2.53	2.67	2.81	2.93	3.04	3.12	3.16
-170	7.27	7.36	6.66	5.60	4.96	4.43	3.95	3.53	3.17	2.86	2.61	2.47	2.49	2.61	2.77	2.90	2.98	3.03	3.07
-160	7.27	8.11	7.40	5.87	5.05	4.53	4.11	3.66	3.30	3.01	2.73	2.50	2.45	2.55	2.65	2.77	2.82	2.87	2.90
-150	7.27	8.92	8.38	6.56	5.58	6.48	5.39	3.91	4.67	3.64	3.17	2.94	2.69	2.54	2.64	2.65	2.69	2.70	2.70
-140	7.27	9.80	9.71	7.89	10.1	10.9	9.69	11.3	11.8	12.3	12.8	13.3	13.8	14.3	15.0	15.4	15.6	15.7	15.9
-130	7.27	10.8	11.4	12.7	16.3	18.3	21.6	24.7	27.0	29.6	31.9	34.1	35.8	37.3	38.3	39.6	40.2	40.5	41.0
-120	7.27	11.8	13.5	18.4	23.9	29.3	35.2	40.6	45.7	50.3	54.5	58.4	61.1	63.9	66.3	68.0	69.1	69.6	70.3
-110	7.27	12.9	16.2	24.4	32.5	41.3	50.1	58.3	66.1	73.1	79.9	85.4	90.4	94.4	98.1	100	102	103	104
-100	7.27	14.0	19.3	30.9	42.0	54.3	66.4	77.5	88.5	98.4	108	116	123	129	135	138	141	142	143
-90	7.27	15.1	23.0	37.6	52.2	67.9	83.6	98.1	113	126	139	149	159	167	175	180	184	186	187
-80	7.27	16.5	27.4	45.2	64.0	83.7	104	123	141	158	176	190	204	215	226	232	238	241	243
-70	7.27	18.1	32.4	53.9	77.3	102	126	150	173	195	217	236	253	268	281	291	299	302	304
-60	7.27	19.7	37.8	62.8	90.7	119	149	177	205	231	256	280	300	319	334	347	356	360	363
-50	7.27	21.2	43.2	70.9	103	136	169	202	233	263	291	318	342	363	381	396	405	411	414
-40	7.27	22.4	48.0	77.7	114	150	186	222	256	289	320	349	376	399	419	435	446	452	455
-30	7.27	23.2	51.6	85.2	121	161	200	237	274	310	343	374	402	427	448	465	477	484	487
-20	7.27	23.4	53.8	90.1	129	169	209	249	288	325	360	393	423	449	471	489	501	508	511
-10	7.27	22.8	54.0	92.1	133	175	216	257	296	334	371	405	435	462	485	504	517	524	526
0	7.27	21.5	52.2	90.5	132	175	217	259	299	339	375	409	440	468	491	510	524	532	534
10	7.27	23.0	54.4	92.6	134	176	218	258	298	336	373	407	438	465	488	506	520	528	529
20	7.27	23.7	54.4	91.2	130	170	212	253	292	330	365	398	427	454	476	494	507	514	516
30	7.27	23.7	52.6	86.7	123	164	204	243	280	316	349	382	410	435	457	474	486	494	495
40	7.27	23.0	49.2	79.6	117	155	192	228	263	297	330	360	386	410	431	447	458	465	467
50	7.27	21.8	44.7	73.4	107	142	176	209	241	273	302	330	354	377	395	410	421	427	429
60	7.27	20.4	39.4	65.7	95.5	126	156	185	214	242	268	293	315	335	351	364	374	379	381
70	7.27	18.7	34.0	57.0	82.1	108	133	158	184	207	229	249	269	285	299	309	318	322	323
80	7.27	17.2	28.8	48.2	68.5	89.2	110	131	151	169	187	203	219	231	242	250	257	259	260
90	7.27	15.8	24.2	40.2	56.1	72.5	89.0	105	121	135	148	160	172	180	188	194	199	200	201
100	7.27	14.6	20.5	33.2	45.4	58.3	71.1	83.4	95.6	106	116	125	133	139	145	149	152	153	154
110	7.27	13.5	17.2	26.3	35.3	44.7	54.0	63.0	71.7	79.3	86.3	92.5	98.3	102	106	109	111	112	112
120	7.27	12.3	14.4	19.8	26.0	31.9	38.3	44.2	49.9	55.3	59.6	63.7	67.1	70.2	72.3	74.2	75.8	76.1	76.5
130	7.27	11.2	12.0	13.6	17.7	20.2	24.0	27.2	30.3	33.3	35.8	37.9	39.8	41.8	42.7	43.9	44.8	45.1	45.2
140	7.27	10.1	10.2	8.26	10.8	12.2	11.3	13.1	13.8	14.5	15.3	15.8	16.2	16.7	17.6	18.0	18.3	18.6	18.5
150	7.27	9.17	8.70	6.75	5.67	7.05	5.99	3.88	5.01	3.89	3.29	3.27	2.68	2.55	2.70	2.66	2.65	2.67	2.67
160	7.27	8.28	7.59	5.97	5.07	4.55	4.17	3.64	3.26	2.93	2.66	2.47	2.40	2.53	2.66	2.73	2.82	2.85	2.82
170	7.27	7.45	6.76	5.63	4.97	4.44	3.96	3.54	3.18	2.88	2.63	2.46	2.48	2.63	2.74	2.84	2.94	3.01	2.99
180	7.27	6.66	6.08	5.51	4.94	4.41	3.91	3.49	3.13	2.83	2.59	2.44	2.53	2.67	2.81	2.93	3.04	3.12	3.15

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Table--2

UNIT: cd

H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-180	3.10	3.02	2.93	2.81	2.64	2.50	2.52	2.66	2.85	3.09	3.40	3.75	4.13	4.57	5.03	5.50	5.98	6.51
-170	2.99	2.95	2.88	2.75	2.59	2.48	2.48	2.61	2.80	3.06	3.36	3.71	4.10	4.55	5.05	6.03	6.68	6.51
-160	2.85	2.79	2.72	2.61	2.51	2.42	2.46	2.65	2.88	3.12	3.41	3.76	4.14	4.58	5.22	6.72	7.42	6.51
-150	2.68	2.64	2.57	2.52	2.43	2.54	2.59	2.96	3.06	4.19	3.56	4.61	5.89	5.01	5.81	7.66	8.23	6.51
-140	15.3	14.9	14.6	13.9	13.4	12.9	12.2	11.7	11.2	10.9	10.3	8.76	10.0	9.12	7.07	8.95	9.11	6.51
-130	40.1	39.4	38.7	37.1	35.8	34.1	32.4	30.1	27.9	25.4	22.9	20.1	16.8	15.1	11.8	10.7	10.1	6.51
-120	69.1	68.2	66.7	64.7	62.2	59.2	56.2	52.2	48.0	43.4	38.5	33.3	27.6	22.5	17.4	12.8	11.2	6.51
-110	102	101	98.8	96.2	92.1	87.9	82.8	77.2	70.4	63.5	56.0	48.1	39.6	31.1	23.5	15.5	12.3	6.51
-100	141	139	136	132	126	120	113	105	95.4	85.7	75.1	64.2	52.5	40.7	29.9	18.8	13.4	6.51
-90	185	183	178	173	165	156	146	135	122	110	95.5	81.4	66.2	50.9	36.7	22.5	14.5	6.51
-80	240	237	230	223	211	200	186	171	155	137	119	101	81.7	62.5	44.4	27.0	15.9	6.51
-70	301	297	288	278	264	249	231	212	191	169	147	124	99.6	75.8	53.1	32.1	17.5	6.51
-60	360	354	344	331	315	296	275	252	227	201	174	146	117	89.4	62.1	37.5	19.1	6.51
-50	410	403	393	377	359	338	314	287	259	230	199	167	134	102	70.4	42.8	20.6	6.51
-40	452	444	432	416	396	372	345	317	286	253	219	183	148	113	77.4	47.5	21.8	6.51
-30	483	476	462	445	424	398	371	340	307	271	234	198	160	120	84.5	51.0	22.5	6.51
-20	507	499	486	468	445	419	390	357	322	286	247	208	167	128	89.2	52.9	22.6	6.51
-10	523	515	501	482	459	432	402	368	332	294	255	214	173	132	90.8	53.0	22.0	6.51
0	531	522	508	489	465	437	406	372	335	297	256	215	172	130	88.9	51.0	20.6	6.51
10	526	518	504	486	463	435	405	370	334	296	256	216	174	132	91.3	53.3	22.1	6.51
20	513	505	492	474	451	424	395	362	327	290	251	210	169	129	90.2	53.5	22.9	6.51
30	493	484	471	454	432	407	378	346	313	278	240	202	163	122	85.9	51.8	22.9	6.51
40	464	456	444	428	406	382	356	326	294	260	226	190	153	116	79.1	48.5	22.2	6.51
50	426	419	407	392	373	350	325	298	269	238	206	173	140	106	72.8	44.1	21.1	6.51
60	378	372	361	347	331	311	288	264	238	211	182	153	124	94.0	64.9	38.9	19.7	6.51
70	321	317	307	295	281	264	245	225	203	180	155	130	105	80.6	56.1	33.5	18.0	6.51
80	258	255	247	239	227	215	199	183	165	147	127	107	87.1	67.0	47.2	28.2	16.5	6.51
90	199	198	192	186	177	169	157	145	131	118	102	86.7	70.7	54.7	39.1	23.6	15.0	6.51
100	152	151	147	143	137	131	122	113	103	92.9	81.0	68.9	56.6	44.0	32.1	19.8	13.9	6.51
110	111	110	107	104	100	96.0	90.1	83.8	76.8	69.4	60.8	52.1	43.1	34.0	25.3	16.4	12.7	6.51
120	75.7	74.9	72.9	70.8	68.6	65.3	61.6	57.4	53.1	47.8	42.2	36.6	30.5	24.8	18.9	13.6	11.6	6.51
130	44.7	44.0	43.0	41.6	40.3	38.2	36.2	34.0	31.5	28.5	25.6	22.5	19.0	16.7	12.8	11.3	10.4	6.51
140	18.3	17.7	17.2	16.8	16.0	15.3	14.6	14.1	13.1	12.5	11.9	10.2	11.3	9.99	7.52	9.43	9.40	6.51
150	2.64	2.61	2.59	2.58	2.48	2.62	2.93	3.17	3.40	4.56	3.62	5.30	6.44	5.19	6.08	8.01	8.45	6.51
160	2.81	2.77	2.68	2.60	2.49	2.39	2.47	2.63	2.86	3.12	3.45	3.87	4.22	4.65	5.39	6.93	7.57	6.51
170	2.98	2.92	2.82	2.72	2.62	2.48	2.48	2.64	2.86	3.10	3.40	3.75	4.14	4.58	5.12	6.14	6.75	6.51
180	3.10	3.02	2.93	2.81	2.64	2.50	2.52	2.66	2.85	3.09	3.40	3.75	4.13	4.57	5.03	5.50	5.98	6.51

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.9DEG
 Operators:Bishoy Wagih
 Test Date:07 April 2021

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.413
 Humidity:25.2%
 Test Distance:8.816m [K=1.0000]
 Remarks: xxx LED DUST WATER PROOF 60cm-18W 6000K