IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-03-LED-72L-DPW-40-80CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3913
[TESTLAB] TUV SUD America
[TESTDATE] 7/20/2020 8:23:12 AM
[ISSUEDATE] 04/05/2022
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-03-LED-72L-DPW-40-80CRI
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor
[_SEARCH_COLORTEMP] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	64942
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	489
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.42 ft
Luminous Width (90-270)	1.16 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	58913	56943	55371
55	56499	52867	49098
65	54115	48923	42140
75	52565	44967	33420
85	52717	36451	18692

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	24557	24557	24557	24557	24557	24557	24557	24557	24557	24557
2.5	24487	24503	24516	24538	24558	24539	24510	24521	24575	24630
5.0	24308	24341	24387	24442	24500	24452	24395	24426	24506	24590
7.5	24144	24178	24232	24275	24345	24295	24231	24257	24340	24422
10.0	23914	23946	23996	24041	24110	24063	23994	24011	24097	24188
12.5	23608	23641	23686	23728	23793	23751	23683	23698	23779	23873
15.0	23264	23276	23326	23345	23417	23381	23312	23318	23402	23494
17.5	22907	22911	22964	22978	23045	23029	22971	22981	23077	23146
20.0	22444	22510	22540	22593	22651	22625	22559	22561	22631	22710
22.5	21890	21961	21982	22020	22080	22054	21984	21988	22049	22140
25.0	21286	21339	21358	21376	21433	21417	21341	21338	21402	21490
27.5	20625	20665	20667	20688	20729	20719	20642	20641	20696	20774
30.0	19938	19961	19944	19969	19982	19973	19890	19892	19938	20002
32.5	19248	19240	19211	19227	19212	19184	19089	19088	19130	19172
35.0	18515	18527	18467	18453	18408	18342	18237	18233	18261	18295
37.5	17764	17774	17685	17642	17561	17465	17349	17337	17349	17376
40.0	17006	16977	16864	16804	16694	16566	16438	16412	16418	16420
42.5	16202	16154	16053	15964	15826	15657	15506	15456	15445	15439
45.0	15368	15347	15247	15101	14960	14748	14559	14482	14444	14444
47.5	14560	14528	14405	14239	14064	13811	13587	13476	13441	13431
50.0	13735	13680	13547	13363	13150	12872	12611	12476	12433	12409
52.5	12855	12806	12671	12467	12240	11945	11656	11486	11438	11393
55.0	11955	11913	11802	11593	11338	11035	10718	10501	10434	10389
57.5	11075	11047	10931	10731	10448	10127	9790	9538	9433	9392
60.0	10214	10183	10070	9863	9559	9222	8868	8597	8471	8421
62.5	9337	9300	9189	8970	8671	8329	7965	7682	7528	7483
65.0	8437	8399	8289	8062	7798	7457	7081	6794	6607	6570
67.5	7547	7513	7421	7191	6939	6616	6231	5933	5720	5677
70.0	6695	6661	6564	6342	6094	5787	5415	5095	4858	4817
72.5	5874	5848	5738	5509	5268	4965	4613	4296	4029	3992
75.0	5019	5022	4920	4698	4437	4150	3836	3521	3244	3191
77.5	4064	4082	4010	3836	3621	3362	3077	2783	2503	2426
80.0	3154	3167	3051	2923	2780	2587	2339	2086	1828	1724
82.5	2405	2386	2265	2118	1956	1819	1631	1430	1219	1107
85.0	1695	1665	1541	1386	1247	1097	952	830	691	601
87.5	870	832	730	624	541	430	367	321	269	235
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**									
	100	**110**	**120**	**130**	**140**	**150**	**160**	**170**	**180**	**190**
0.0	24557	24557	24557	24557	24557	24557	24557	24557	24557	24557
2.5	24596	24504	24471	24544	24609	24608	24547	24503	24400	24427
5.0	24527	24402	24359	24433	24526	24499	24446	24406	24308	24326
7.5	24353	24228	24185	24265	24360	24333	24270	24247	24151	24170
10.0	24102	23982	23941	24023	24115	24089	24041	24004	23914	23943
12.5	23795	23672	23634	23725	23819	23780	23726	23704	23606	23637
15.0	23423	23299	23267	23357	23448	23407	23358	23333	23272	23257
17.5	23104	22995	22982	23093	23096	23026	22943	23045	22933	22934
20.0	22634	22524	22503	22613	22674	22612	22594	22551	22470	22486
22.5	22038	21940	21926	22038	22098	22049	22027	21985	21899	21910
25.0	21389	21297	21288	21402	21451	21388	21390	21349	21264	21280
27.5	20679	20599	20589	20684	20746	20677	20696	20666	20589	20614
30.0	19908	19845	19839	19941	20019	19951	19976	19957	19903	19940
32.5	19086	19039	19050	19155	19253	19211	19248	19261	19204	19234
35.0	18225	18190	18205	18327	18446	18439	18497	18551	18502	18479
37.5	17326	17305	17312	17451	17584	17617	17706	17784	17744	17706
40.0	16381	16381	16387	16550	16698	16766	16883	16973	16937	16928
42.5	15397	15417	15455	15645	15828	15917	16052	16156	16120	16125
45.0	14391	14427	14494	14721	14969	15088	15238	15340	15329	15320
47.5	13395	13426	13531	13801	14080	14245	14403	14519	14521	14509
50.0	12380	12434	12566	12867	13150	13347	13521	13667	13684	13651
52.5	11379	11448	11608	11932	12244	12437	12633	12777	12805	12768
55.0	10381	10478	10674	11015	11350	11574	11773	11887	11899	11865
57.5	9393	9511	9756	10123	10456	10706	10884	11038	11000	10988
60.0	8433	8580	8830	9207	9569	9834	10036	10177	10129	10121
62.5	7486	7682	7947	8324	8673	8952	9151	9291	9274	9256
65.0	6577	6788	7064	7463	7791	8039	8256	8387	8407	8380
67.5	5686	5917	6212	6618	6938	7171	7379	7515	7531	7483
70.0	4842	5086	5403	5802	6107	6329	6551	6675	6645	6598
72.5	4020	4292	4602	4950	5294	5498	5726	5859	5818	5777
75.0	3240	3529	3832	4160	4470	4700	4930	5058	5041	4979
77.5	2500	2799	3067	3369	3684	3877	4049	4121	4154	4095
80.0	1828	2113	2339	2628	2874	2961	3106	3213	3262	3220

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CANDELA TABULATION - (Cont.)

82.5	1231	1462	1661	1880	2057	2163	2336	2456	2505	2455
85.0	702	854	992	1171	1352	1451	1604	1753	1703	1632
87.5	269	324	361	477	600	670	795	920	840	744
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**									
	200	**210**	**220**	**230**	**240**	**250**	**260**	**270**	**280**	**290**
0.0	24557	24557	24557	24557	24557	24557	24557	24557	24557	24557
2.5	24473	24534	24592	24548	24501	24517	24604	24682	24618	24496
5.0	24385	24439	24495	24457	24408	24424	24511	24584	24520	24401
7.5	24225	24277	24334	24294	24245	24265	24350	24420	24355	24236
10.0	23995	24045	24099	24058	24010	24026	24110	24180	24117	24004
12.5	23693	23746	23794	23754	23709	23717	23796	23863	23806	23696
15.0	23316	23374	23421	23389	23364	23345	23428	23491	23426	23340
17.5	22983	23038	23085	23050	23018	22984	23066	23117	23030	23020
20.0	22535	22592	22643	22628	22584	22578	22646	22704	22647	22555
22.5	21958	22007	22063	22062	22012	21999	22054	22118	22064	21978
25.0	21326	21373	21436	21427	21368	21365	21407	21459	21398	21330
27.5	20653	20697	20739	20728	20671	20676	20697	20737	20679	20619

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CANDELA TABULATION - (Cont.)

30.0	19939	19978	19994	19980	19926	19921	19935	19961	19909	19860
32.5	19201	19222	19213	19173	19128	19114	19114	19137	19097	19052
35.0	18439	18436	18393	18326	18282	18262	18252	18258	18237	18211
37.5	17659	17642	17554	17469	17404	17374	17359	17339	17323	17327
40.0	16862	16821	16690	16577	16496	16454	16423	16366	16369	16410
42.5	16043	15968	15801	15665	15547	15485	15450	15386	15401	15446
45.0	15221	15097	14913	14742	14584	14493	14462	14392	14406	14465
47.5	14380	14223	14019	13816	13622	13504	13451	13380	13379	13465
50.0	13521	13343	13118	12877	12661	12509	12439	12357	12372	12467
52.5	12642	12457	12218	11946	11702	11519	11428	11345	11370	11488
55.0	11743	11566	11314	11012	10745	10538	10417	10341	10375	10502
57.5	10869	10675	10408	10084	9810	9571	9429	9331	9392	9541
60.0	10007	9803	9508	9185	8892	8624	8460	8360	8425	8607
62.5	9146	8939	8633	8303	7986	7706	7524	7419	7492	7699
65.0	8269	8073	7780	7445	7104	6809	6604	6505	6574	6801
67.5	7388	7192	6926	6605	6250	5935	5704	5626	5690	5958
70.0	6523	6324	6074	5762	5424	5105	4857	4767	4844	5117
72.5	5681	5471	5241	4938	4637	4309	4024	3940	4013	4305
75.0	4881	4668	4421	4144	3862	3543	3243	3145	3243	3551
77.5	4000	3852	3644	3365	3103	2813	2508	2392	2512	2819
80.0	3109	2985	2830	2609	2372	2116	1822	1677	1823	2118
82.5	2325	2187	2015	1855	1671	1455	1215	1068	1224	1463
85.0	1525	1417	1253	1119	1003	856	695	572	699	854
87.5	689	648	529	439	404	349	278	220	275	344
90.0	0	0	0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0	0	0	0
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	**Horizontal Angles**						
	300	**310**	**320**	**330**	**340**	**350**	**360**
0.0	24557	24557	24557	24557	24557	24557	24557
2.5	24466	24527	24603	24599	24534	24497	24487
5.0	24372	24431	24508	24510	24436	24400	24308
7.5	24229	24271	24356	24356	24283	24242	24144
10.0	23994	24050	24121	24128	24057	24014	23914
12.5	23693	23747	23811	23821	23742	23700	23608
15.0	23337	23385	23432	23439	23360	23317	23264
17.5	22958	23068	23062	23081	23032	23018	22907
20.0	22573	22607	22640	22658	22577	22539	22444
22.5	22016	22035	22079	22080	22010	21961	21890
25.0	21371	21390	21434	21438	21376	21329	21286
27.5	20661	20690	20723	20731	20692	20645	20625
30.0	19918	19926	19966	19960	19955	19940	19938
32.5	19121	19155	19195	19216	19253	19233	19248
35.0	18281	18337	18368	18457	18521	18517	18515
37.5	17406	17479	17532	17655	17747	17762	17764
40.0	16503	16592	16680	16822	16938	16955	17006
42.5	15547	15672	15782	15973	16092	16131	16202
45.0	14583	14744	14868	15113	15255	15328	15368
47.5	13639	13808	13991	14237	14435	14503	14560
50.0	12678	12884	13118	13399	13594	13664	13735
52.5	11714	11963	12213	12523	12728	12791	12855
55.0	10773	11046	11291	11629	11812	11875	11955
57.5	9846	10113	10386	10721	10907	10966	11075
60.0	8920	9218	9486	9829	10037	10113	10214
62.5	8029	8354	8618	8993	9168	9239	9337
65.0	7160	7478	7769	8141	8335	8382	8437
67.5	6305	6645	6930	7278	7460	7516	7547
70.0	5467	5800	6057	6383	6560	6608	6695
72.5	4674	4964	5213	5516	5698	5751	5874
75.0	3896	4160	4390	4704	4898	4939	5019
77.5	3133	3373	3609	3902	4016	3994	4064
80.0	2402	2634	2790	3011	3110	3137	3154
82.5	1697	1878	1997	2211	2332	2396	2405
85.0	1020	1145	1270	1495	1580	1636	1695
87.5	399	459	526	669	751	786	870
90.0	0	0	0	0	0	0	0
92.5	0	0	0	0	0	0	0
95.0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0
102.5	0	0	0	0	0	0	0
105.0	0	0	0	0	0	0	0
107.5	0	0	0	0	0	0	0
110.0	0	0	0	0	0	0	0
112.5	0	0	0	0	0	0	0
115.0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

117.5	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0
122.5	0	0	0	0	0	0	0
125.0	0	0	0	0	0	0	0
127.5	0	0	0	0	0	0	0
130.0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0
135.0	0	0	0	0	0	0	0
137.5	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	8921.04	N.A.	13.70
0-30	18759.48	N.A.	28.90
0-40	30239.89	N.A.	46.60
0-60	51679.96	N.A.	79.60
0-80	63608.5	N.A.	97.90
0-90	64941.87	N.A.	100.00
10-90	62621.47	N.A.	96.40
20-40	21318.85	N.A.	32.80
20-50	32777.22	N.A.	50.50
40-70	28926.06	N.A.	44.50
60-80	11928.54	N.A.	18.40
70-80	4442.55	N.A.	6.80
80-90	1333.37	N.A.	2.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	64941.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2320.4
10-20	6600.64
20-30	9838.44
30-40	11480.41
40-50	11458.37
50-60	9981.7
60-70	7485.99
70-80	4442.55
80-90	1333.37
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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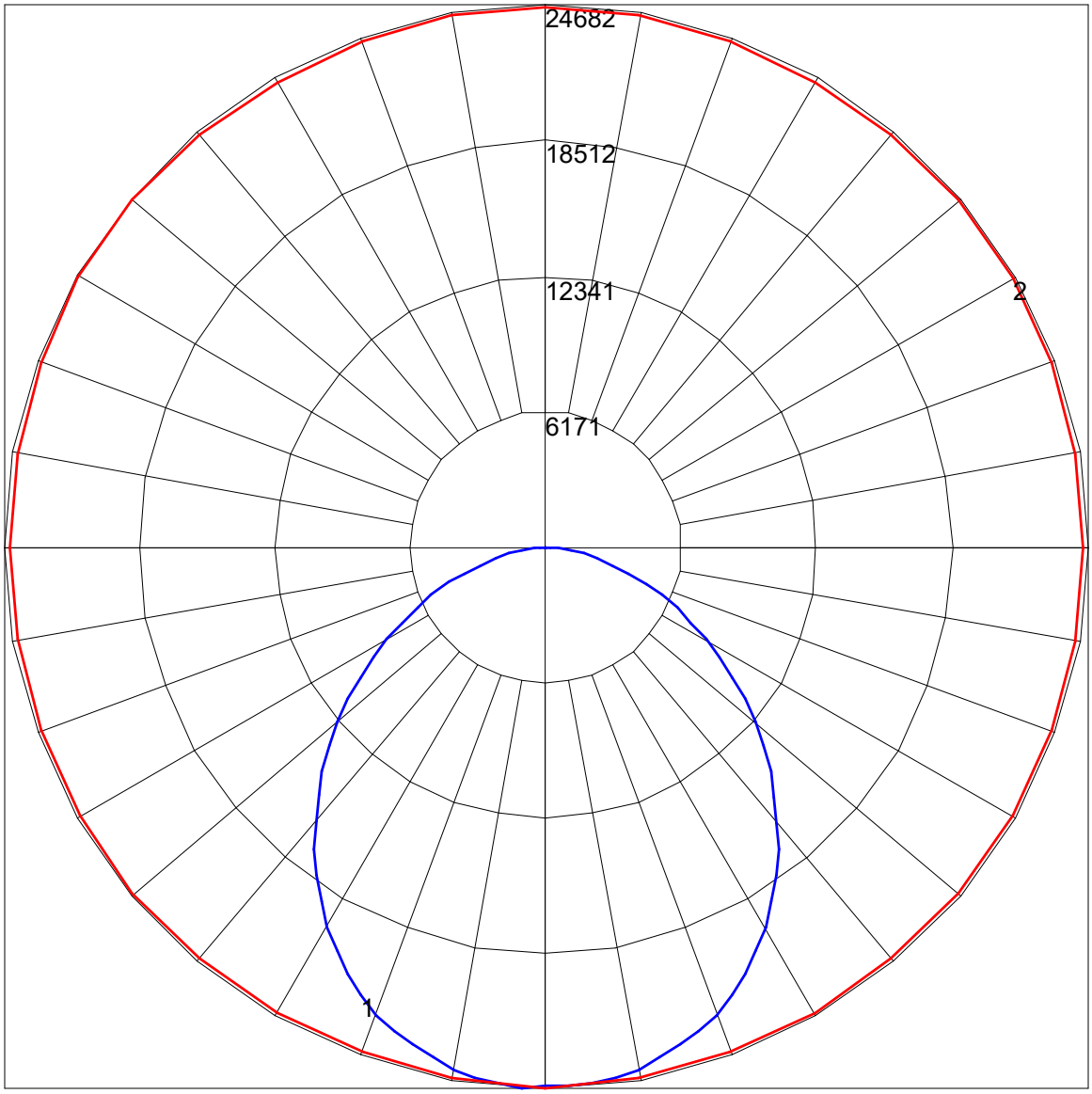
POLAR GRAPH



Maximum Candela = 24682 Located At Horizontal Angle = 270, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (270 - 90) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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