IES INDOOR REPORT
PHOTOMETRIC FILENAME : MHB-03-LED-90L-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-90L-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	79424
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	559
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	72050	69641	67719
55	69098	64656	60048
65	66180	59833	51537
75	64285	54990	40877
85	64474	44584	22860

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	30033	30033	30033	30033	30033	30033	30033	30033	30033	30033
2.5	29948	29967	29983	30010	30034	30011	29976	29989	30055	30122
5.0	29729	29769	29825	29893	29963	29905	29835	29873	29971	30074
7.5	29528	29570	29636	29688	29774	29713	29634	29666	29768	29868
10.0	29247	29286	29347	29402	29487	29429	29345	29365	29471	29582
12.5	28873	28913	28968	29019	29099	29047	28964	28983	29082	29197
15.0	28452	28467	28528	28551	28639	28595	28511	28518	28621	28733
17.5	28015	28020	28085	28102	28184	28164	28094	28106	28223	28308
20.0	27449	27530	27566	27631	27702	27670	27590	27592	27678	27774
22.5	26771	26858	26884	26930	27004	26972	26886	26891	26966	27077
25.0	26033	26098	26121	26143	26213	26193	26100	26096	26175	26282
27.5	25224	25273	25276	25301	25352	25339	25245	25244	25311	25407
30.0	24384	24412	24391	24422	24438	24427	24325	24328	24384	24462
32.5	23540	23531	23495	23515	23496	23462	23346	23345	23396	23447
35.0	22644	22659	22585	22568	22513	22432	22304	22299	22333	22375
37.5	21725	21738	21629	21576	21477	21360	21218	21203	21218	21251
40.0	20798	20763	20625	20551	20417	20260	20104	20072	20079	20082
42.5	19815	19756	19633	19524	19355	19148	18964	18903	18889	18882
45.0	18795	18769	18647	18469	18296	18037	17806	17711	17665	17665
47.5	17807	17768	17617	17414	17200	16891	16617	16481	16438	16426
50.0	16798	16731	16568	16343	16082	15742	15423	15258	15206	15176
52.5	15722	15662	15497	15247	14970	14609	14255	14047	13989	13934
55.0	14621	14570	14434	14178	13866	13496	13108	12843	12761	12706
57.5	13545	13510	13369	13124	12778	12385	11973	11665	11537	11486
60.0	12492	12454	12316	12062	11691	11278	10846	10514	10360	10299
62.5	11419	11374	11238	10970	10605	10186	9741	9395	9207	9152
65.0	10318	10272	10137	9860	9537	9120	8660	8309	8080	8035
67.5	9230	9188	9076	8795	8486	8091	7621	7256	6996	6943
70.0	8188	8146	8028	7756	7453	7077	6623	6231	5941	5891
72.5	7184	7152	7018	6738	6443	6072	5642	5254	4927	4882
75.0	6138	6142	6017	5746	5426	5075	4691	4306	3967	3903
77.5	4970	4992	4904	4691	4428	4112	3763	3404	3061	2967
80.0	3857	3873	3731	3575	3400	3164	2861	2551	2236	2108
82.5	2941	2918	2770	2590	2392	2225	1995	1749	1491	1354
85.0	2073	2036	1885	1695	1525	1342	1164	1015	845	735
87.5	1064	1018	893	763	662	526	449	393	329	287
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	30033	30033	30033	30033	30033	30033	30033	30033	30033	30033
2.5	30081	29968	29928	30017	30097	30096	30021	29967	29841	29874
5.0	29996	29844	29791	29882	29995	29962	29897	29849	29729	29751
7.5	29784	29631	29578	29676	29792	29759	29682	29654	29537	29560
10.0	29477	29330	29280	29380	29493	29461	29402	29357	29247	29282
12.5	29101	28951	28904	29016	29131	29083	29017	28990	28870	28908
15.0	28646	28495	28456	28566	28677	28627	28567	28536	28462	28443
17.5	28256	28123	28107	28243	28246	28161	28059	28184	28047	28048
20.0	27681	27547	27521	27656	27730	27654	27632	27580	27481	27500
22.5	26952	26833	26815	26952	27026	26966	26939	26888	26782	26796
25.0	26159	26046	26035	26175	26235	26158	26160	26110	26006	26025
27.5	25290	25193	25180	25297	25372	25288	25311	25274	25180	25211
30.0	24347	24270	24263	24388	24483	24400	24431	24407	24341	24387
32.5	23342	23285	23298	23427	23546	23495	23540	23556	23486	23523
35.0	22289	22246	22265	22414	22559	22551	22622	22688	22628	22600
37.5	21190	21164	21173	21343	21505	21546	21654	21750	21701	21654
40.0	20034	20034	20041	20241	20422	20505	20648	20758	20714	20703
42.5	18831	18855	18901	19134	19358	19466	19632	19759	19715	19721
45.0	17600	17644	17726	18004	18307	18453	18636	18761	18747	18736
47.5	16382	16420	16548	16879	17220	17422	17615	17757	17759	17744
50.0	15141	15207	15368	15736	16082	16323	16536	16715	16736	16695
52.5	13917	14001	14197	14593	14974	15210	15450	15626	15661	15615
55.0	12696	12815	13054	13471	13881	14155	14398	14538	14552	14511
57.5	11488	11632	11932	12380	12788	13093	13311	13499	13453	13438
60.0	10314	10493	10799	11260	11703	12027	12274	12446	12388	12378
62.5	9155	9395	9719	10180	10607	10948	11192	11363	11342	11320
65.0	8044	8302	8639	9127	9528	9832	10097	10257	10282	10249
67.5	6954	7236	7597	8094	8485	8770	9025	9191	9210	9152
70.0	5922	6220	6608	7096	7469	7740	8012	8164	8127	8069
72.5	4916	5249	5628	6054	6475	6724	7003	7166	7115	7065
75.0	3963	4316	4687	5088	5467	5748	6029	6186	6165	6089
77.5	3057	3423	3751	4120	4506	4742	4952	5040	5080	5008
80.0	2236	2584	2861	3214	3515	3621	3799	3929	3989	3938

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CANDELA TABULATION - (Cont.)

82.5	1506	1788	2031	2299	2516	2645	2857	3004	3064	3002
85.0	859	1044	1213	1432	1653	1775	1962	2144	2083	1996
87.5	329	396	442	583	734	819	972	1125	1027	910
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	30033	30033	30033	30033	30033	30033	30033	30033	30033	30033
2.5	29930	30005	30076	30022	29965	29984	30091	30186	30108	29959
5.0	29823	29889	29957	29911	29851	29871	29977	30066	29988	29842
7.5	29627	29691	29760	29712	29652	29676	29780	29866	29786	29641
10.0	29346	29407	29473	29423	29364	29384	29487	29572	29495	29357
12.5	28977	29041	29100	29051	28996	29006	29102	29184	29115	28980
15.0	28515	28586	28644	28605	28574	28551	28652	28729	28650	28545
17.5	28108	28175	28233	28190	28151	28109	28210	28272	28166	28153
20.0	27560	27630	27692	27674	27620	27613	27696	27767	27697	27585
22.5	26855	26915	26983	26982	26921	26905	26972	27050	26984	26879
25.0	26082	26139	26216	26205	26133	26129	26181	26244	26170	26087
27.5	25259	25312	25364	25350	25281	25287	25312	25361	25290	25217

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CANDELA TABULATION - (Cont.)

30.0	24385	24433	24453	24436	24369	24363	24380	24412	24349	24289
32.5	23483	23508	23497	23449	23394	23376	23376	23405	23356	23301
35.0	22551	22547	22495	22413	22359	22334	22322	22330	22304	22272
37.5	21597	21576	21469	21365	21285	21248	21230	21206	21186	21191
40.0	20622	20572	20412	20274	20175	20123	20085	20016	20019	20069
42.5	19621	19529	19325	19158	19014	18938	18895	18817	18835	18890
45.0	18615	18464	18239	18029	17836	17725	17687	17601	17619	17691
47.5	17587	17395	17145	16897	16660	16515	16451	16364	16363	16468
50.0	16536	16318	16043	15749	15484	15298	15213	15113	15131	15247
52.5	15461	15235	14943	14610	14312	14088	13976	13875	13905	14050
55.0	14362	14145	13837	13468	13141	12888	12740	12647	12689	12844
57.5	13293	13056	12729	12333	11998	11705	11532	11412	11486	11669
60.0	12239	11989	11628	11233	10875	10547	10347	10224	10304	10526
62.5	11186	10932	10558	10155	9767	9424	9202	9073	9163	9416
65.0	10113	9873	9515	9105	8688	8327	8077	7956	8040	8318
67.5	9036	8796	8470	8078	7644	7258	6976	6881	6959	7287
70.0	7978	7734	7428	7047	6634	6243	5940	5830	5924	6258
72.5	6948	6691	6410	6039	5671	5270	4921	4819	4908	5265
75.0	5969	5709	5407	5068	4723	4333	3966	3846	3966	4343
77.5	4892	4711	4457	4115	3795	3440	3067	2925	3072	3448
80.0	3802	3651	3461	3191	2901	2588	2228	2051	2230	2590
82.5	2843	2675	2464	2269	2044	1779	1486	1306	1497	1789
85.0	1865	1733	1532	1369	1227	1047	850	700	855	1044
87.5	843	793	647	537	494	427	340	269	336	421
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	30033	30033	30033	30033	30033	30033	30033
2.5	29922	29996	30089	30085	30005	29960	29948
5.0	29807	29879	29973	29976	29885	29841	29729
7.5	29632	29683	29787	29787	29698	29648	29528
10.0	29345	29413	29500	29509	29422	29369	29247
12.5	28977	29043	29121	29133	29036	28985	28873
15.0	28541	28600	28657	28666	28569	28517	28452
17.5	28078	28212	28205	28228	28168	28151	28015
20.0	27607	27648	27689	27711	27612	27565	27449
22.5	26926	26949	27003	27004	26918	26858	26771
25.0	26137	26160	26214	26219	26143	26085	26033
27.5	25268	25304	25344	25354	25306	25249	25224
30.0	24360	24369	24418	24411	24405	24387	24384
32.5	23385	23427	23475	23501	23546	23522	23540
35.0	22358	22426	22464	22573	22651	22646	22644
37.5	21288	21377	21442	21592	21705	21723	21725
40.0	20183	20292	20400	20573	20715	20736	20798
42.5	19014	19167	19301	19535	19680	19728	19815
45.0	17835	18032	18184	18483	18657	18746	18795
47.5	16680	16887	17111	17412	17654	17737	17807
50.0	15505	15757	16043	16387	16625	16711	16798
52.5	14326	14631	14936	15316	15566	15643	15722
55.0	13175	13509	13809	14222	14446	14523	14621
57.5	12042	12368	12702	13112	13339	13411	13545
60.0	10909	11274	11601	12021	12275	12368	12492
62.5	9819	10217	10540	10998	11212	11299	11419
65.0	8757	9146	9501	9956	10194	10251	10318
67.5	7711	8127	8475	8901	9124	9192	9230
70.0	6686	7093	7408	7806	8023	8082	8188
72.5	5716	6071	6375	6746	6969	7033	7184
75.0	4765	5088	5369	5753	5990	6040	6138
77.5	3832	4125	4414	4772	4912	4885	4970
80.0	2938	3221	3412	3682	3804	3837	3857
82.5	2075	2297	2442	2704	2852	2930	2941
85.0	1247	1400	1553	1828	1932	2001	2073
87.5	488	561	643	818	918	961	1064
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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IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	10910.43	N.A.	13.70
0-30	22942.81	N.A.	28.90
0-40	36983.36	N.A.	46.60
0-60	63204.55	N.A.	79.60
0-80	77793.09	N.A.	97.90
0-90	79423.78	N.A.	100.00
10-90	76585.94	N.A.	96.40
20-40	26072.94	N.A.	32.80
20-50	40086.51	N.A.	50.50
40-70	35376.52	N.A.	44.50
60-80	14588.54	N.A.	18.40
70-80	5433.21	N.A.	6.80
80-90	1630.69	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	79423.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2837.85
10-20	8072.58
20-30	12032.39
30-40	14040.55
40-50	14013.57
50-60	12207.62
60-70	9155.34
70-80	5433.21
80-90	1630.69
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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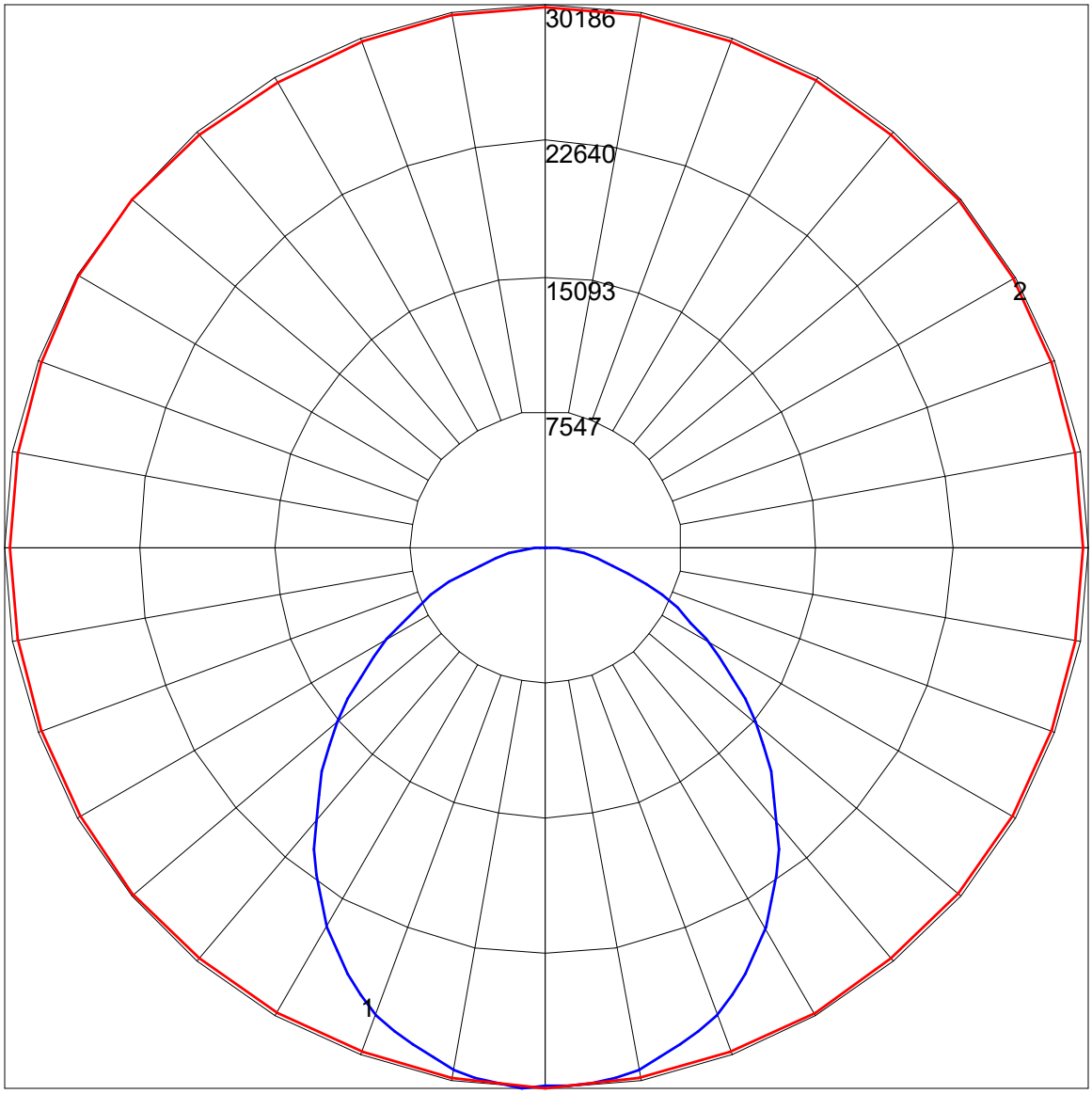
POLAR GRAPH



Maximum Candela = 30186 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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