



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LVL22M-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995

[TEST]

[TESTLAB] LEADING TESTING LABORATORIES

[TESTDATE] 2018-03-19

[ISSUEDATE] 2018-03-19 12:45:43

[LUMCAT] LVL22M-40

[LUMINAIRE] 2x2 RECESSED LUMINAIRE

[MORE] Formed white enamel steel housing, formed white enamel steel

[MORE] reflector, formed white enamel aluminum enclosure with angled frosted

[MORE] plastic lenses

[LAMP] (2)LED Board with 56 chip array 4000K

[NEARFIELD]

[LAMPPOSITION] 0,0

[MANUFAC] LAMAR LIGHTING CO., INC.

[_SEARCH_SOURCE] LED

[_SEARCH_APPLICATION] Indoor

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3037
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	25.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.81 ft
Luminous Width (90-270)	1.79 ft
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3271	3340	3407
55	3070	3169	3254
65	2775	2906	3040
75	2251	2469	2643
85	1091	1742	2163

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1122.014	1122.014	1122.014	1122.014	1122.014	1122.014	1122.014	1122.014	1122.014	1122.014
0.5	1121.929	1121.995	1122.127	1122.183	1122.249	1122.183	1122.193	1122.155	1122.061	1121.882
1.0	1121.694	1121.826	1122.108	1122.221	1122.390	1122.315	1122.277	1122.183	1121.920	1121.685
1.5	1121.261	1121.553	1121.939	1122.193	1122.390	1122.324	1122.249	1122.052	1121.741	1121.318
2.0	1120.668	1121.158	1121.656	1121.976	1122.202	1122.221	1122.117	1121.826	1121.402	1120.838
2.5	1119.953	1120.574	1121.233	1121.703	1121.976	1121.967	1121.788	1121.412	1120.932	1120.189
3.0	1119.144	1119.887	1120.631	1121.214	1121.562	1121.581	1121.365	1120.932	1120.320	1119.436
3.5	1118.175	1119.050	1119.991	1120.706	1121.092	1121.082	1120.866	1120.311	1119.530	1118.514
4.0	1117.046	1118.090	1119.116	1119.916	1120.443	1120.405	1120.198	1119.549	1118.758	1117.563
4.5	1115.926	1117.027	1118.213	1119.154	1119.718	1119.709	1119.304	1118.598	1117.695	1116.444
5.0	1114.647	1115.832	1117.131	1118.231	1118.909	1118.787	1118.410	1117.554	1116.481	1115.221
5.5	1113.141	1114.515	1115.954	1117.149	1117.827	1117.827	1117.366	1116.359	1115.183	1113.809
6.0	1111.589	1113.094	1114.694	1116.011	1116.717	1116.707	1116.171	1115.117	1113.828	1112.304
6.5	1109.895	1111.495	1113.264	1114.722	1115.540	1115.493	1114.863	1113.696	1112.370	1110.676
7.0	1108.107	1109.773	1111.692	1113.329	1114.148	1114.129	1113.489	1112.219	1110.714	1108.945
7.5	1106.235	1107.985	1109.961	1111.711	1112.671	1112.708	1111.918	1110.554	1109.011	1107.101
8.0	1104.203	1106.056	1108.192	1110.055	1111.081	1111.081	1110.206	1108.775	1107.138	1105.106
8.5	1102.104	1103.996	1106.310	1108.173	1109.340	1109.387	1108.408	1106.847	1105.059	1103.027
9.0	1099.856	1101.841	1104.250	1106.301	1107.439	1107.562	1106.461	1104.852	1102.914	1100.834
9.5	1097.475	1099.583	1102.114	1104.297	1105.510	1105.642	1104.466	1102.763	1100.768	1098.510
10.0	1095.038	1097.184	1099.874	1102.086	1103.384	1103.497	1102.349	1100.552	1098.416	1096.036
10.5	1092.357	1094.643	1097.438	1099.771	1101.069	1101.201	1099.997	1098.143	1095.960	1093.458
11.0	1089.609	1092.056	1094.935	1097.334	1098.727	1098.934	1097.607	1095.659	1093.467	1090.795
11.5	1086.749	1089.336	1092.413	1094.747	1096.346	1096.525	1095.123	1093.062	1090.785	1088.019
12.0	1083.832	1086.551	1089.666	1092.046	1093.749	1093.881	1092.526	1090.306	1087.897	1085.065
12.5	1080.784	1083.616	1086.777	1089.289	1091.086	1091.190	1089.741	1087.473	1085.046	1081.950
13.0	1077.707	1080.530	1083.879	1086.401	1088.330	1088.414	1086.956	1084.500	1082.026	1078.808
13.5	1074.508	1077.415	1080.718	1083.446	1085.413	1085.507	1083.936	1081.470	1078.921	1075.787
14.0	1071.149	1074.197	1077.528	1080.313	1082.289	1082.402	1080.991	1078.253	1075.693	1072.438
14.5	1067.771	1070.895	1074.226	1077.095	1079.288	1079.372	1077.688	1075.007	1072.363	1068.975
15.0	1064.167	1067.489	1070.885	1073.812	1076.126	1076.220	1074.414	1071.695	1068.881	1065.353
15.5	1060.620	1063.904	1067.376	1070.406	1072.767	1072.777	1071.027	1068.241	1065.306	1061.740
16.0	1056.866	1060.281	1063.725	1066.887	1069.229	1069.323	1067.705	1064.722	1061.655	1057.967
16.5	1053.074	1056.574	1060.121	1063.255	1065.955	1065.908	1063.932	1061.128	1057.901	1053.996
17.0	1049.132	1052.735	1056.339	1059.566	1062.323	1062.361	1060.291	1057.393	1054.090	1050.129
17.5	1045.058	1048.708	1052.378	1055.775	1058.531	1058.522	1056.452	1053.488	1050.063	1046.168
18.0	1040.748	1044.644	1048.341	1051.832	1054.655	1054.598	1052.528	1049.480	1046.121	1041.962
18.5	1036.637	1040.485	1044.371	1047.843	1050.769	1050.684	1048.548	1045.434	1041.802	1037.530
19.0	1032.243	1036.288	1040.156	1043.787	1046.855	1046.657	1044.418	1041.219	1037.455	1033.268
19.5	1027.736	1031.857	1035.818	1039.666	1042.545	1042.404	1040.109	1036.909	1033.052	1028.799
20.0	1023.191	1027.322	1031.443	1035.404	1038.358	1038.142	1035.837	1032.534	1028.695	1024.292
20.5	1018.665	1022.824	1026.983	1031.001	1034.087	1033.748	1031.396	1028.074	1024.113	1019.710
21.0	1013.829	1018.120	1022.316	1026.541	1029.599	1029.251	1026.851	1023.361	1019.371	1014.827
21.5	1009.002	1013.321	1017.555	1021.836	1025.233	1024.706	1022.203	1018.807	1014.610	1009.953
22.0	1004.091	1008.617	1012.841	1017.113	1020.528	1020.171	1017.480	1014.017	1009.859	1005.013
22.5	999.226	1003.649	1008.061	1012.531	1015.862	1015.429	1012.766	1009.162	1004.844	1000.026
23.0	994.023	998.568	1002.990	1007.685	1011.016	1010.461	1007.939	1004.063	999.885	994.898
23.5	988.914	993.515	998.022	1002.670	1006.198	1005.615	1002.868	999.151	994.710	989.733
24.0	983.683	988.265	992.838	997.533	1001.183	1000.657	997.759	994.080	989.620	984.445
24.5	978.273	982.902	987.644	992.433	996.027	995.519	992.650	988.735	984.181	979.119
25.0	972.806	977.557	982.318	987.173	990.890	990.297	987.409	983.400	978.790	973.568
25.5	967.424	972.176	976.955	981.923	985.753	985.019	982.074	978.066	973.427	968.036
26.0	961.901	966.643	971.573	976.438	980.371	979.684	976.664	972.495	967.960	962.560
26.5	956.227	960.951	965.890	970.962	974.791	974.151	971.141	966.916	962.277	956.877

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CANDELA TABULATION - (Cont.)

27.0	950.394	955.296	960.273	965.392	969.447	968.675	965.505	961.252	956.613	950.968
27.5	944.692	949.462	954.581	959.756	963.839	963.068	959.887	955.559	950.892	945.228
28.0	938.774	943.629	948.775	953.922	958.175	957.385	954.167	949.594	944.955	939.263
28.5	932.733	937.579	942.970	948.126	952.454	951.504	948.343	943.901	939.065	933.147
29.0	926.598	931.745	937.033	942.264	946.640	945.802	942.349	937.870	932.978	927.059
29.5	920.671	925.526	931.058	936.431	940.731	939.865	936.431	931.811	926.768	921.009
30.0	914.480	919.476	924.895	930.305	934.671	933.777	930.428	925.695	920.689	914.847
30.5	908.232	913.143	918.610	924.105	928.715	927.596	924.208	919.382	914.451	908.411
31.0	901.871	906.962	912.381	917.904	922.581	921.602	918.008	913.209	908.063	902.163
31.5	895.417	900.432	906.124	911.629	914.856	915.270	911.676	906.849	901.730	895.662
32.0	889.009	894.118	899.792	905.325	910.095	909.126	905.362	900.347	895.182	889.103
32.5	882.536	887.636	893.206	898.992	903.904	902.709	898.945	893.959	888.661	882.583
33.0	875.893	881.087	886.732	892.632	897.477	896.348	892.519	887.382	882.084	876.110
33.5	869.053	874.369	880.137	886.102	891.042	889.781	885.810	880.673	875.667	869.363
34.0	862.363	867.754	873.569	879.346	884.502	883.195	879.158	873.908	868.714	862.429
34.5	855.560	860.905	866.814	872.788	877.963	876.590	872.562	867.218	861.846	855.466
35.0	848.720	854.149	859.945	866.127	871.377	870.022	865.891	860.425	854.921	848.814
35.5	841.663	847.271	853.218	859.446	864.828	863.248	859.108	853.594	848.127	841.701
36.0	834.691	840.440	846.396	852.672	858.063	856.407	851.929	846.678	841.099	834.738
36.5	827.550	833.205	839.396	845.803	851.119	849.548	845.173	839.593	834.042	827.597
37.0	820.361	826.073	832.207	838.944	844.373	842.651	838.220	832.537	826.929	820.474
37.5	813.192	818.978	825.273	832.000	837.580	835.660	831.106	825.367	819.599	813.220
38.0	806.013	811.818	818.169	825.085	830.721	828.811	823.843	818.113	812.448	805.975
38.5	798.579	804.507	810.981	817.962	823.495	821.820	816.767	810.962	805.213	798.758
39.0	791.250	797.347	803.623	810.755	816.485	814.631	809.560	803.717	797.817	791.306
39.5	783.704	789.848	796.519	803.651	809.532	807.509	802.334	796.406	790.488	783.845
40.0	776.337	782.321	789.152	796.510	802.381	800.433	795.042	788.775	782.904	776.365
40.5	768.725	774.888	781.747	789.377	794.957	793.169	787.778	781.370	775.490	768.932
41.0	761.047	767.379	774.154	781.766	787.703	785.699	780.081	773.890	767.916	761.235
41.5	753.379	759.814	766.909	774.455	780.580	778.454	772.799	766.420	760.313	753.567
42.0	745.917	752.033	759.344	767.219	773.213	771.256	765.375	758.648	752.579	746.021
42.5	738.070	744.346	751.967	759.749	765.733	763.738	757.744	750.970	744.986	738.371
43.0	730.430	736.565	744.290	752.240	758.290	756.183	750.001	743.396	737.186	730.581
43.5	722.272	728.755	736.565	744.525	750.688	748.580	742.398	735.539	729.386	722.696
44.0	714.567	720.908	728.548	736.998	743.160	741.062	734.627	727.796	721.482	714.877
44.5	706.503	712.939	721.303	729.386	735.558	733.328	726.949	719.892	713.513	706.851
45.0	698.825	705.167	713.513	721.755	727.899	725.763	719.215	712.111	705.524	698.797
45.5	690.574	697.235	705.666	713.757	720.080	718.142	711.603	704.160	697.602	690.903
46.0	682.632	689.153	697.668	706.108	712.318	710.370	703.417	696.181	689.708	683.056
46.5	674.522	680.920	689.953	698.157	704.395	702.344	695.551	687.986	681.381	674.992
47.0	666.552	672.894	681.851	690.263	696.172	694.290	687.610	679.932	673.233	666.806
47.5	658.169	664.784	673.976	682.425	688.287	686.594	679.894	671.906	665.160	658.658
48.0	650.124	656.711	666.035	674.221	680.515	678.624	671.916	663.786	656.993	650.501
48.5	641.938	648.459	658.009	666.138	672.395	670.551	663.843	655.487	648.628	642.155
49.0	633.734	640.066	649.795	658.160	663.974	662.478	655.666	647.236	640.395	634.101
49.5	625.247	631.899	641.619	649.955	655.836	654.198	647.678	638.918	632.125	625.990
50.0	617.061	623.581	633.517	641.581	647.904	645.881	639.511	630.507	623.572	617.475
50.5	608.546	615.170	625.247	633.292	639.643	637.639	631.363	622.048	615.160	608.922
51.0	600.313	606.881	616.995	625.106	631.391	629.330	623.149	613.900	606.805	600.586
51.5	591.864	598.554	608.772	616.628	623.092	621.154	614.803	605.253	598.111	592.344
52.0	583.433	589.634	600.398	608.282	614.671	612.601	606.608	596.766	589.577	583.716
52.5	574.805	581.448	591.901	600.040	606.241	604.293	598.375	588.128	581.128	575.360
53.0	566.243	572.999	583.471	591.450	597.801	595.853	589.728	579.698	572.575	566.817
53.5	557.690	564.427	574.984	582.822	589.446	587.187	581.307	570.910	563.853	558.217
54.0	549.119	555.517	566.469	574.429	580.789	578.842	572.933	562.470	555.187	549.589
54.5	540.566	547.199	557.925	565.914	572.265	570.232	564.578	553.814	546.381	543.059

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55.0	531.966	538.665	549.185	557.549	563.881	561.811	555.997	545.110	537.856	537.659
55.5	523.131	530.009	540.604	548.780	555.394	553.023	547.293	536.144	528.936	526.810
56.0	514.484	521.588	531.825	540.114	546.654	544.395	538.618	527.487	520.393	515.416
56.5	505.790	515.547	523.187	531.533	537.960	536.012	529.915	518.728	511.426	506.148
57.0	497.040	507.521	514.446	522.896	529.379	527.167	521.099	509.761	502.572	497.435
57.5	488.177	497.811	505.470	514.004	520.656	518.361	512.461	500.775	493.511	488.562
58.0	479.247	487.631	496.692	505.489	512.057	509.695	503.532	492.260	484.883	479.944
58.5	470.506	477.930	487.894	496.776	503.429	501.293	494.659	483.369	475.860	471.024
59.0	461.700	468.615	479.097	487.960	494.509	492.429	485.646	474.195	466.969	462.161
59.5	452.902	459.667	470.008	479.040	485.570	483.293	476.651	465.209	457.983	453.561
60.0	444.114	450.945	461.474	470.384	476.858	474.675	467.844	456.318	449.082	444.622
60.5	435.110	442.176	453.053	461.521	468.267	466.018	458.811	447.483	439.993	435.646
61.0	426.058	433.143	444.989	452.733	459.423	457.174	450.004	438.478	430.970	426.764
61.5	417.120	424.346	436.559	443.917	450.305	448.132	440.708	429.295	421.975	417.976
62.0	408.219	415.614	427.931	435.072	441.508	439.447	431.657	420.328	413.112	409.197
62.5	399.393	407.015	418.117	426.181	432.711	430.443	422.662	411.286	403.853	400.240
63.0	390.219	399.751	408.050	417.308	423.866	421.598	413.845	402.272	394.726	391.330
63.5	381.065	393.616	398.311	408.351	414.946	412.651	404.531	393.334	385.656	382.466
64.0	372.229	386.399	389.241	399.487	406.008	403.938	395.263	384.235	376.623	373.396
64.5	363.413	377.037	379.992	390.492	397.003	394.886	386.324	375.118	367.506	364.589
65.0	354.249	365.850	371.082	381.657	388.102	385.854	377.433	366.057	358.323	357.307
65.5	345.047	354.418	362.218	372.747	379.314	376.981	368.193	357.100	349.356	351.690
66.0	336.033	344.360	352.950	363.592	370.178	367.948	358.906	348.011	340.267	344.209
66.5	327.217	334.866	343.664	354.578	361.108	358.859	349.780	338.846	331.206	335.553
67.0	318.184	325.871	335.177	345.781	352.141	349.845	340.766	330.905	321.995	326.831
67.5	308.926	317.008	326.097	336.795	343.438	341.010	331.724	323.688	312.830	317.394
68.0	300.006	308.719	317.083	327.734	334.227	332.053	324.808	315.098	304.014	308.361
68.5	291.143	301.662	307.721	318.758	325.316	323.171	318.702	306.649	294.972	299.300
69.0	282.072	294.577	299.112	309.989	316.349	313.941	310.168	298.388	285.845	290.127
69.5	273.030	286.598	290.014	300.900	307.336	304.955	301.079	288.809	276.822	279.683
70.0	264.120	277.904	280.990	291.688	298.124	295.960	291.510	279.711	267.705	266.660
70.5	255.087	268.984	271.977	282.835	289.374	287.078	282.562	272.475	258.729	256.734
71.0	246.205	259.745	263.377	274.141	280.595	278.243	272.231	263.330	249.922	247.927
71.5	237.427	249.884	254.231	265.211	271.647	269.229	259.811	252.773	240.870	239.214
72.0	228.488	238.321	245.471	256.339	262.379	260.215	249.875	240.569	232.082	234.425
72.5	219.465	227.406	236.429	247.410	253.591	251.324	241.068	230.699	223.379	226.606
73.0	210.724	218.712	227.782	238.593	244.578	242.489	232.271	221.733	214.553	218.063
73.5	202.039	211.477	219.173	229.871	235.093	233.757	223.445	212.869	205.860	209.237
74.0	193.411	205.860	210.564	221.083	225.760	224.885	214.591	204.401	197.391	199.819
74.5	184.783	197.382	201.729	212.135	216.407	215.833	205.822	195.557	188.933	190.410
75.0	176.024	189.864	193.082	202.529	206.697	206.772	196.977	186.957	180.474	180.992
75.5	167.631	181.820	184.595	193.609	196.667	197.551	188.265	178.235	172.015	171.573
76.0	159.219	172.768	176.296	184.426	186.618	188.312	179.759	175.638	163.557	162.221
76.5	150.920	159.548	167.979	175.083	176.805	178.705	171.385	167.998	155.042	154.787
77.0	142.810	150.055	159.539	165.081	167.170	169.127	162.926	161.139	146.809	148.182
77.5	134.671	141.323	151.410	155.738	158.655	159.200	154.580	150.996	138.962	140.251
78.0	126.664	134.059	143.224	146.498	151.532	149.820	146.263	141.079	130.795	130.729
78.5	118.826	126.034	134.897	137.945	145.275	140.655	137.917	130.954	122.750	123.248
79.0	110.650	117.255	126.363	130.729	139.338	132.808	129.336	122.740	114.865	115.157
79.5	103.104	111.092	118.149	124.782	133.994	126.278	121.113	114.291	107.413	106.284
80.0	95.737	103.791	109.850	118.582	129.665	120.285	112.823	107.234	99.660	99.754
80.5	88.266	95.210	101.448	113.473	125.309	114.357	104.148	99.303	92.406	91.380
81.0	81.096	86.760	93.140	108.721	120.849	109.615	95.586	91.728	85.170	84.173
81.5	74.331	79.130	85.349	104.120	116.606	104.694	87.391	84.314	77.925	77.154
82.0	67.575	72.487	78.405	99.199	112.287	99.829	79.610	77.079	70.596	70.078
82.5	60.829	65.872	73.023	94.504	107.752	94.730	73.851	69.843	63.802	63.219

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83.0	54.083	59.267	67.670	89.809	102.455	89.894	68.102	62.607	57.028	56.595
83.5	47.327	52.653	62.306	84.747	92.142	84.728	62.353	55.372	50.159	50.206
84.0	40.807	46.368	56.953	76.608	79.534	76.796	56.605	48.146	43.140	44.044
84.5	34.258	40.073	51.326	65.374	68.243	65.722	50.865	41.654	36.940	37.834
85.0	28.716	33.778	45.869	54.111	56.962	54.450	45.088	35.378	31.200	31.925
85.5	24.209	27.841	39.499	42.858	45.681	43.178	38.944	29.497	27.371	27.493
86.0	20.295	22.873	32.009	31.595	34.399	31.906	31.191	24.200	23.541	23.052
86.5	16.729	18.837	24.670	23.805	23.118	23.880	23.936	19.834	19.712	18.620
87.0	13.493	15.233	17.877	17.830	17.661	17.774	17.313	15.817	15.873	14.179
87.5	10.256	11.818	12.806	13.050	13.173	12.900	12.354	11.987	12.044	9.795
88.0	7.951	8.562	9.061	9.183	9.193	8.835	8.525	8.327	8.233	6.342
88.5	6.266	6.737	6.972	6.934	7.320	6.727	6.567	6.502	4.799	3.265
89.0	4.601	4.921	4.987	4.780	5.551	4.667	4.686	4.752	1.966	1.458
89.5	2.936	3.114	3.001	2.625	3.792	2.616	2.804	3.001	1.393	1.383
90.0	1.280	1.298	1.026	0.480	2.023	0.555	0.922	1.261	1.618	1.487
90.5	1.317	1.402	1.044	0.433	0.254	0.414	0.875	1.298	1.835	1.647
91.0	1.515	1.675	1.204	0.461	0.151	0.461	1.054	1.524	1.966	1.741
91.5	1.590	1.769	1.270	0.489	0.151	0.489	1.157	1.647	2.014	1.835
92.0	1.618	1.844	1.327	0.517	0.160	0.517	1.233	1.731	1.985	1.910
92.5	1.637	1.901	1.364	0.546	0.160	0.536	1.280	1.807	1.976	2.051
93.0	1.741	2.070	1.440	0.574	0.179	0.583	1.393	2.004	2.070	2.183
93.5	1.788	2.258	1.571	0.630	0.207	0.659	1.496	2.061	2.079	2.136
94.0	1.816	2.286	1.637	0.659	0.226	0.715	1.581	1.985	2.145	2.108
94.5	1.816	2.211	1.694	0.668	0.216	0.724	1.552	1.948	2.108	2.089
95.0	1.797	2.164	1.656	0.668	0.216	0.706	1.496	1.948	2.145	2.051
95.5	1.797	2.155	1.590	0.640	0.226	0.668	1.458	1.966	2.145	2.051
96.0	1.788	2.155	1.534	0.612	0.226	0.649	1.421	2.014	2.098	2.108
96.5	1.731	2.126	1.505	0.602	0.226	0.630	1.393	2.305	2.126	2.333
97.0	1.684	2.173	1.477	0.593	0.226	0.612	1.364	2.296	2.108	2.042
97.5	1.684	2.559	1.458	0.593	0.226	0.602	1.345	2.268	2.051	2.089
98.0	1.712	2.117	1.440	0.593	0.235	0.593	1.336	2.842	2.070	2.484
98.5	1.712	2.286	1.421	0.593	0.245	0.593	1.430	3.227	2.061	2.578
99.0	1.694	3.246	1.402	0.593	0.245	0.593	1.703	3.472	2.014	3.058
99.5	1.684	3.510	1.383	0.593	0.254	0.593	1.816	3.566	1.985	3.020
100.0	1.694	3.434	1.374	0.593	0.263	0.593	1.957	3.067	1.985	3.218
100.5	1.882	3.133	1.374	0.593	0.263	0.583	1.872	3.039	2.098	3.425
101.0	1.929	3.303	1.383	0.593	0.273	0.583	1.552	2.540	2.117	2.889
101.5	1.995	2.917	1.468	0.593	0.282	0.583	1.336	1.966	2.136	2.860
102.0	2.070	2.860	1.421	0.593	0.292	0.583	1.280	1.844	2.202	2.531
102.5	2.164	2.418	1.374	0.593	0.292	0.583	1.289	1.816	2.239	2.164
103.0	2.183	2.004	1.364	0.593	0.292	0.583	1.468	1.797	2.239	1.957
103.5	2.183	1.976	1.383	0.593	0.310	0.593	1.468	1.807	2.249	1.919
104.0	2.211	1.976	1.844	0.621	0.320	0.612	1.364	1.807	2.164	1.919
104.5	2.079	1.976	2.098	0.640	0.329	0.621	1.449	2.051	2.192	1.910
105.0	2.014	1.985	2.145	0.649	0.358	0.621	1.919	1.929	2.456	1.919
105.5	2.202	1.966	2.014	0.659	0.386	0.630	2.051	1.788	2.352	1.919
106.0	1.957	1.948	1.487	0.659	0.405	0.630	2.409	1.863	2.098	1.919
106.5	2.155	2.032	1.402	0.659	0.423	0.621	2.277	1.957	2.475	2.126
107.0	2.014	2.635	1.383	0.668	0.433	0.630	2.079	1.769	2.061	2.606
107.5	1.957	2.851	1.383	0.677	0.442	0.630	1.854	1.741	2.475	2.578
108.0	1.985	2.569	1.383	0.696	0.452	0.640	1.383	2.089	1.985	2.145
108.5	2.051	1.957	1.374	0.706	0.461	0.649	1.308	2.475	2.286	1.863
109.0	2.126	1.901	1.402	0.706	0.461	0.659	1.308	2.606	2.070	1.854
109.5	1.938	1.966	1.515	0.734	0.470	0.659	1.298	1.835	2.051	1.938
110.0	1.938	2.221	1.449	0.734	0.480	0.668	1.289	1.703	2.136	2.155
110.5	2.108	2.249	1.374	0.743	0.480	0.677	1.289	1.694	1.938	2.042

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111.0	1.788	2.051	1.355	0.762	0.489	0.687	1.280	1.872	1.882	2.221
111.5	2.070	1.891	1.355	0.762	0.499	0.696	1.270	2.173	1.844	1.816
112.0	1.891	1.872	1.345	0.772	0.508	0.706	1.261	2.023	1.910	1.788
112.5	1.919	1.882	1.345	0.781	0.517	0.715	1.251	1.703	1.957	1.788
113.0	1.741	2.117	1.336	0.790	0.527	0.724	1.233	1.665	1.703	1.976
113.5	2.023	2.371	1.327	0.809	0.527	0.734	1.223	1.694	1.703	2.315
114.0	1.797	2.286	1.308	0.819	0.536	0.743	1.223	1.816	1.731	2.286
114.5	1.995	1.929	1.298	0.819	0.546	0.753	1.214	1.788	2.014	2.023
115.0	1.694	1.835	1.289	0.828	0.555	0.762	1.204	1.637	1.694	1.731
115.5	1.694	1.816	1.280	0.828	0.565	0.762	1.195	1.609	1.618	1.703
116.0	2.098	1.929	1.270	0.837	0.574	0.772	1.195	1.600	1.600	1.694
116.5	1.816	1.901	1.270	0.837	0.583	0.772	1.186	1.590	1.600	1.741
117.0	1.759	1.825	1.270	0.828	0.593	0.772	1.176	1.590	1.769	1.778
117.5	1.656	1.797	1.270	0.828	0.602	0.772	1.167	1.637	1.797	1.665
118.0	1.647	1.778	1.270	0.819	0.621	0.781	1.167	2.023	1.543	1.647
118.5	1.647	1.778	1.261	0.819	0.630	0.781	1.176	2.136	1.505	1.647
119.0	1.731	1.778	1.261	0.809	0.640	0.790	1.496	2.098	1.524	1.637
119.5	1.966	1.778	1.251	0.809	0.649	0.800	1.552	2.032	1.515	1.628
120.0	1.722	1.854	1.251	0.809	0.659	0.800	1.317	1.731	1.524	1.637
120.5	1.647	1.882	1.261	0.809	0.659	0.800	1.176	1.618	1.722	1.694
121.0	1.656	1.825	1.261	0.800	0.668	0.800	1.157	1.637	1.703	1.656
121.5	1.656	1.825	1.270	0.800	0.687	0.790	1.157	1.637	1.534	1.600
122.0	1.656	1.844	1.270	0.800	0.687	0.790	1.157	1.675	1.600	1.590
122.5	1.647	1.976	1.280	0.800	0.696	0.790	1.157	1.571	1.496	1.562
123.0	1.637	2.042	1.298	0.800	0.696	0.781	1.157	1.487	1.477	1.665
123.5	1.628	1.778	1.458	0.800	0.696	0.781	1.157	1.468	1.458	1.759
124.0	1.590	1.637	1.393	0.800	0.706	0.781	1.157	1.477	1.430	1.562
124.5	1.562	1.703	1.308	0.800	0.706	0.781	1.157	1.628	1.345	1.383
125.0	1.477	1.562	1.270	0.809	0.706	0.781	1.157	1.496	1.176	1.336
125.5	1.298	1.496	1.270	0.809	0.706	0.781	1.129	1.317	1.157	1.327
126.0	1.280	1.364	1.261	0.819	0.715	0.790	1.101	1.214	1.157	1.176
126.5	1.317	1.270	1.223	0.819	0.715	0.790	1.063	1.204	1.120	1.223
127.0	1.289	1.298	1.195	0.828	0.715	0.790	1.044	1.261	0.988	1.280
127.5	1.110	1.383	1.167	0.828	0.715	0.790	1.044	1.308	1.035	1.355
128.0	1.148	1.440	1.167	0.828	0.734	0.790	1.044	1.327	1.016	1.355
128.5	1.063	1.477	1.233	0.837	0.743	0.800	1.082	1.336	0.903	1.327
129.0	0.997	1.468	1.261	0.837	0.753	0.800	1.148	1.327	0.997	1.298
129.5	1.157	1.468	1.195	0.847	0.762	0.809	1.129	1.336	1.176	1.289
130.0	1.327	1.458	1.148	0.847	0.772	0.809	1.157	1.374	1.251	1.270
130.5	1.411	1.468	1.148	0.847	0.781	0.809	1.186	1.327	1.327	1.270
131.0	1.505	1.468	1.186	0.847	0.790	0.819	1.110	1.355	1.355	1.308
131.5	1.515	1.458	1.223	0.856	0.800	0.819	1.063	1.364	1.345	1.317
132.0	1.515	1.449	1.261	0.866	0.809	0.819	1.073	1.402	1.355	1.298
132.5	1.524	1.458	1.298	0.856	0.819	0.800	1.082	1.327	1.411	1.298
133.0	1.524	1.440	1.298	0.847	0.819	0.790	1.082	1.270	1.327	1.308
133.5	1.524	1.421	1.261	0.856	0.819	0.781	1.101	1.251	1.289	1.298
134.0	1.524	1.468	1.251	0.847	0.828	0.772	1.110	1.233	1.280	1.280
134.5	1.524	1.600	1.261	0.837	0.819	0.772	1.120	1.233	1.280	1.289
135.0	1.543	1.515	1.270	0.837	0.819	0.772	1.120	1.261	1.280	1.355
135.5	1.543	1.477	1.261	0.837	0.819	0.772	1.129	1.242	1.270	1.543
136.0	1.543	1.656	1.261	0.828	0.809	0.772	1.148	1.214	1.270	1.458
136.5	1.552	1.835	1.270	0.819	0.809	0.772	1.148	1.214	1.270	1.280
137.0	1.543	1.816	1.298	0.819	0.809	0.772	1.157	1.214	1.280	1.242
137.5	1.534	1.703	1.421	0.837	0.809	0.790	1.157	1.204	1.317	1.261
138.0	1.524	1.543	1.515	0.847	0.819	0.800	1.138	1.176	1.402	1.242
138.5	1.534	1.458	1.364	0.856	0.819	0.800	1.148	1.176	1.327	1.242

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139.0	1.543	1.430	1.280	0.856	0.819	0.819	1.138	1.186	1.327	1.233
139.5	1.543	1.411	1.261	0.875	0.847	0.828	1.129	1.195	1.308	1.233
140.0	1.543	1.402	1.261	0.884	0.847	0.837	1.110	1.214	1.298	1.261
140.5	1.543	1.421	1.251	0.894	0.847	0.847	1.091	1.242	1.289	1.270
141.0	1.534	1.449	1.167	0.903	0.847	0.856	1.073	1.251	1.289	1.280
141.5	1.534	1.468	1.138	0.913	0.856	0.866	1.054	1.242	1.298	1.289
142.0	1.543	1.477	1.110	0.922	0.856	0.875	1.044	1.242	1.317	1.289
142.5	1.581	1.477	1.073	0.931	0.866	0.894	1.129	1.233	1.336	1.261
143.0	1.562	1.487	1.035	0.950	0.866	0.903	1.186	1.223	1.345	1.242
143.5	1.515	1.487	0.988	0.960	0.875	0.913	1.073	1.251	1.345	1.233
144.0	1.496	1.477	0.950	0.969	0.875	0.922	0.979	1.261	1.402	1.242
144.5	1.496	1.458	0.941	0.997	0.884	0.941	0.931	1.289	1.449	1.261
145.0	1.487	1.449	0.941	1.007	0.894	0.941	0.922	1.289	1.355	1.261
145.5	1.487	1.458	0.950	0.997	0.894	0.941	0.922	1.289	1.317	1.270
146.0	1.487	1.487	0.960	1.007	0.913	0.950	0.922	1.280	1.298	1.270
146.5	1.477	1.487	0.960	1.016	0.941	0.960	0.922	1.261	1.298	1.280
147.0	1.468	1.440	0.960	1.016	0.941	0.960	0.931	1.261	1.308	1.289
147.5	1.430	1.393	0.950	1.016	0.941	0.960	0.922	1.242	1.317	1.280
148.0	1.411	1.355	0.969	1.016	0.941	0.941	0.922	1.186	1.327	1.242
148.5	1.393	1.280	0.979	1.016	0.941	0.941	0.922	1.176	1.327	1.204
149.0	1.393	1.195	0.979	1.016	0.950	0.941	0.941	1.176	1.308	1.186
149.5	1.402	1.176	0.988	1.016	0.950	0.941	0.950	1.129	1.298	1.167
150.0	1.487	1.167	0.988	1.016	0.950	0.941	0.950	1.110	1.298	1.138
150.5	1.402	1.148	0.997	0.997	0.941	0.941	0.950	1.110	1.270	1.091
151.0	1.167	1.091	1.007	1.007	0.941	0.950	0.950	1.091	1.223	1.082
151.5	1.110	1.026	1.054	1.035	0.941	0.960	0.969	1.054	1.148	1.082
152.0	1.091	0.997	1.176	1.044	0.922	0.969	0.979	0.969	1.148	1.035
152.5	1.035	0.988	1.308	1.044	0.922	0.960	0.979	0.960	1.261	0.950
153.0	0.941	0.997	1.280	1.026	0.931	0.960	0.979	0.969	1.167	0.894
153.5	0.922	1.026	1.157	1.007	0.941	0.941	0.979	0.969	1.073	0.866
154.0	0.903	1.026	1.101	0.997	0.960	0.931	0.988	1.007	0.988	0.866
154.5	0.913	1.026	1.101	1.007	0.960	0.931	1.007	1.016	0.979	0.875
155.0	0.922	1.073	1.110	1.007	0.941	0.922	1.026	1.016	0.988	0.913
155.5	0.931	1.091	1.120	1.007	0.931	0.922	1.035	1.063	1.007	0.941
156.0	0.922	1.082	1.129	1.007	0.941	0.931	1.035	1.110	1.044	0.950
156.5	0.979	1.110	1.138	1.016	0.941	0.950	1.063	1.101	1.044	0.960
157.0	1.026	1.148	1.148	1.129	0.950	0.969	1.082	1.110	1.063	0.997
157.5	1.035	1.157	1.148	1.336	0.941	0.979	1.091	1.101	1.129	1.035
158.0	1.110	1.176	1.157	1.440	0.950	0.979	1.091	1.091	1.157	1.044
158.5	1.261	1.204	1.167	1.327	0.969	0.988	1.101	1.082	1.167	1.063
159.0	1.411	1.214	1.167	1.148	0.979	0.988	1.101	1.054	1.186	1.091
159.5	1.402	1.223	1.167	1.091	0.979	0.988	1.110	1.044	1.176	1.091
160.0	1.298	1.214	1.167	1.101	0.979	1.007	1.110	1.026	1.167	1.073
160.5	1.242	1.204	1.157	1.110	0.988	1.035	1.101	1.026	1.186	1.063
161.0	1.233	1.223	1.148	1.120	0.997	1.044	1.091	1.026	1.364	1.073
161.5	1.223	1.186	1.138	1.120	1.016	1.035	1.082	1.035	1.430	1.063
162.0	1.195	1.148	1.091	1.091	1.026	1.026	1.063	1.044	1.261	1.054
162.5	1.176	1.138	1.091	1.073	1.035	1.007	1.016	1.016	1.082	1.026
163.0	1.176	1.148	1.091	1.073	1.026	0.997	1.016	1.007	1.035	1.044
163.5	1.167	1.148	1.091	1.073	1.026	1.007	1.016	1.007	1.026	1.063
164.0	1.186	1.148	1.101	1.073	1.016	1.054	1.016	0.979	1.035	1.054
164.5	1.204	1.138	1.101	1.063	1.026	1.063	1.016	0.979	1.044	1.044
165.0	1.204	1.138	1.120	1.063	1.035	1.054	1.016	0.997	1.044	1.035
165.5	1.204	1.129	1.167	1.073	1.035	1.073	1.035	1.016	1.044	1.016
166.0	1.214	1.129	1.195	1.054	1.016	1.044	1.054	1.007	1.044	1.016
166.5	1.223	1.138	1.242	1.063	1.016	1.016	1.063	0.979	1.054	1.026

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167.0	1.223	1.110	1.308	1.054	0.979	1.016	1.063	0.941	1.082	1.007
167.5	1.223	1.101	1.270	1.054	0.997	1.016	1.120	0.931	1.063	1.016
168.0	1.233	1.091	1.176	1.054	1.007	0.997	1.148	0.922	1.035	1.063
168.5	1.280	1.110	1.157	1.073	0.988	1.007	1.073	0.913	1.054	1.167
169.0	1.411	1.120	1.157	1.101	0.988	1.016	1.026	0.903	1.044	1.186
169.5	1.534	1.148	1.186	1.091	0.997	1.016	1.026	0.903	1.026	1.091
170.0	1.477	1.167	1.138	1.044	1.026	0.979	1.035	0.913	0.988	1.007
170.5	1.298	1.167	1.101	1.026	0.997	0.931	1.007	0.922	0.979	0.979
171.0	1.204	1.157	1.091	1.035	0.913	0.922	0.969	0.931	1.026	1.016
171.5	1.186	1.148	1.082	1.044	0.894	0.913	0.941	0.950	1.138	1.120
172.0	1.157	1.129	1.073	1.110	0.894	0.922	0.931	0.960	1.270	1.261
172.5	1.148	1.120	1.063	1.167	0.913	0.931	0.922	0.960	1.280	1.289
173.0	1.167	1.110	1.054	1.148	0.941	0.941	0.922	0.960	1.157	1.167
173.5	1.186	1.110	1.063	1.073	0.922	0.960	0.922	0.950	1.101	1.091
174.0	1.214	1.101	1.082	1.035	0.894	0.988	0.950	0.979	1.110	1.101
174.5	1.223	1.129	1.138	1.054	0.913	0.988	0.997	1.035	1.129	1.120
175.0	1.223	1.148	1.167	1.044	0.875	1.016	1.044	1.129	1.157	1.148
175.5	1.251	1.195	1.167	1.054	0.884	1.035	1.063	1.167	1.223	1.214
176.0	1.289	1.204	1.167	1.082	0.931	1.073	1.073	1.186	1.214	1.223
176.5	1.355	1.233	1.148	1.073	1.016	1.091	1.063	1.176	1.204	1.204
177.0	1.487	1.242	1.157	1.016	1.044	1.082	1.073	1.167	1.186	1.195
177.5	1.468	1.242	1.167	0.997	1.026	1.063	1.073	1.157	1.186	1.186
178.0	1.355	1.251	1.167	1.016	1.026	1.035	1.101	1.157	1.186	1.186
178.5	1.280	1.251	1.167	1.035	1.073	1.035	1.120	1.138	1.195	1.195
179.0	1.251	1.242	1.186	1.026	1.091	1.044	1.148	1.167	1.223	1.242
179.5	1.270	1.242	1.233	1.035	1.129	1.044	1.167	1.176	1.440	1.449
180.0	1.289	1.289	1.289	1.289	1.289	1.289	1.289	1.289	1.289	1.289

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1122.014	1122.014	1122.014	1122.014	1122.014	1122.014	1122.014
0.5	1121.807	1121.703	1121.572	1121.572	1121.628	1121.779	1121.929
1.0	1121.440	1121.252	1121.120	1121.064	1121.176	1121.365	1121.694
1.5	1120.998	1120.668	1120.518	1120.452	1120.631	1120.875	1121.261
2.0	1120.386	1120.029	1119.775	1119.737	1119.869	1120.245	1120.668
2.5	1119.624	1119.182	1118.918	1118.890	1119.031	1119.492	1119.953
3.0	1118.758	1118.241	1117.949	1117.817	1118.081	1118.504	1119.144
3.5	1117.817	1117.253	1116.877	1116.735	1116.942	1117.451	1118.175
4.0	1116.754	1116.039	1115.691	1115.569	1115.795	1116.359	1117.046
4.5	1115.550	1114.760	1114.374	1114.214	1114.411	1115.079	1115.926
5.0	1114.186	1113.414	1112.953	1112.727	1113.000	1113.668	1114.647
5.5	1112.746	1111.937	1111.419	1111.137	1111.363	1112.087	1113.141
6.0	1111.175	1110.281	1109.716	1109.509	1109.716	1110.497	1111.589
6.5	1109.462	1108.484	1107.985	1107.656	1107.844	1108.728	1109.895
7.0	1107.675	1106.649	1106.028	1105.736	1105.972	1106.875	1108.107
7.5	1105.717	1104.654	1104.052	1103.657	1103.920	1104.871	1106.235
8.0	1103.685	1102.481	1101.926	1101.483	1101.700	1102.801	1104.203
8.5	1101.465	1100.260	1099.667	1099.178	1099.451	1100.590	1102.104
9.0	1099.150	1097.927	1097.240	1096.807	1097.118	1098.153	1099.856
9.5	1096.741	1095.415	1094.765	1094.314	1094.483	1095.716	1097.475
10.0	1094.154	1092.940	1092.234	1091.557	1091.896	1093.241	1095.038
10.5	1091.548	1090.287	1089.468	1088.866	1089.167	1090.541	1092.357
11.0	1088.838	1087.455	1086.730	1086.090	1086.335	1087.746	1089.609
11.5	1085.959	1084.481	1083.795	1083.089	1083.343	1084.877	1086.749
12.0	1082.919	1081.602	1080.718	1079.956	1080.247	1081.894	1083.832

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12.5	1079.805	1078.366	1077.660	1076.757	1077.076	1078.723	1080.784
13.0	1076.568	1075.279	1074.423	1073.520	1073.812	1075.515	1077.707
13.5	1073.275	1071.798	1070.989	1070.199	1070.518	1072.212	1074.508
14.0	1069.916	1068.514	1067.583	1066.557	1066.971	1068.844	1071.149
14.5	1066.426	1064.854	1064.054	1063.085	1063.217	1065.296	1067.771
15.0	1062.662	1061.147	1060.366	1059.359	1059.651	1061.646	1064.167
15.5	1058.917	1057.440	1056.574	1055.483	1055.840	1057.910	1060.620
16.0	1055.191	1053.573	1052.660	1051.484	1051.954	1054.090	1056.866
16.5	1051.192	1049.489	1048.708	1047.645	1047.956	1050.035	1053.074
17.0	1047.222	1045.472	1044.700	1043.505	1043.891	1046.111	1049.132
17.5	1042.959	1041.256	1040.466	1039.177	1039.657	1041.934	1045.058
18.0	1038.819	1036.985	1036.270	1034.858	1035.329	1037.709	1040.748
18.5	1034.529	1032.591	1031.810	1030.587	1030.944	1033.353	1036.637
19.0	1029.928	1028.046	1027.425	1026.004	1026.503	1028.968	1032.243
19.5	1025.487	1023.605	1022.909	1021.394	1021.836	1024.414	1027.736
20.0	1020.848	1018.910	1018.233	1016.812	1017.179	1019.870	1023.191
20.5	1016.144	1014.168	1013.566	1012.051	1012.540	1015.306	1018.665
21.0	1011.213	1009.332	1008.730	1007.130	1007.647	1010.338	1013.829
21.5	1006.415	1004.354	1003.705	1002.134	1002.651	1005.446	1009.002
22.0	1001.334	999.415	998.709	997.147	997.674	1000.562	1004.091
22.5	996.253	994.287	993.685	991.991	992.565	995.538	999.226
23.0	991.201	989.234	988.585	986.797	987.503	990.495	994.023
23.5	986.091	983.984	983.231	981.641	982.074	985.132	988.914
24.0	980.691	978.564	977.859	976.259	976.805	979.825	983.683
24.5	975.299	973.051	972.467	970.651	971.348	974.509	978.273
25.0	969.823	967.763	967.085	965.091	965.796	969.005	972.806
25.5	964.310	962.202	961.346	959.633	960.198	963.350	967.424
26.0	958.514	956.321	955.700	953.884	954.496	957.846	961.901
26.5	952.906	950.638	950.102	948.117	948.888	952.219	956.227
27.0	946.988	944.927	944.457	942.340	942.979	946.395	950.394
27.5	941.069	938.943	938.397	936.478	937.268	940.608	944.692
28.0	935.038	932.931	932.498	930.362	931.143	934.492	938.774
28.5	929.064	927.012	926.363	924.274	925.036	928.443	932.733
29.0	922.957	920.878	920.257	918.300	918.892	922.421	926.598
29.5	916.794	914.677	914.113	912.127	912.711	916.343	920.671
30.0	910.556	908.288	907.921	905.776	906.463	910.264	914.480
30.5	904.261	902.135	901.589	899.388	900.178	903.753	908.232
31.0	897.901	895.746	895.276	893.206	893.752	897.449	901.871
31.5	891.239	889.103	888.737	886.535	887.344	890.919	895.417
32.0	884.794	882.649	882.310	879.930	880.701	884.644	889.009
32.5	878.358	876.317	875.978	873.588	874.124	878.180	882.536
33.0	871.527	869.505	869.382	867.002	867.519	871.368	875.893
33.5	864.838	862.871	862.692	860.039	860.942	864.725	869.053
34.0	858.223	856.219	855.852	853.302	854.083	857.762	862.363
34.5	851.279	849.492	849.313	846.669	847.168	851.166	855.560
35.0	844.354	842.604	842.454	839.763	840.299	844.307	848.720
35.5	837.269	835.651	835.585	832.640	833.383	837.185	841.663
36.0	830.570	828.942	828.952	825.960	826.449	830.316	834.691
36.5	823.325	821.839	822.111	819.044	819.543	823.250	827.550
37.0	816.372	814.772	814.932	811.893	812.401	816.099	820.361
37.5	808.958	807.669	808.054	804.724	805.109	808.779	813.192
38.0	801.948	800.621	800.913	797.723	797.817	801.675	806.013
38.5	794.440	793.442	793.809	790.535	790.836	794.383	798.579
39.0	787.270	786.188	786.536	783.224	783.412	786.912	791.250
39.5	780.100	779.122	779.583	776.130	776.054	779.573	783.704
40.0	772.554	771.830	772.178	769.007	768.593	772.140	776.337

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40.5	765.036	764.453	764.848	761.452	761.339	764.604	768.725
41.0	757.688	757.133	757.359	754.000	753.708	756.888	761.047
41.5	750.180	749.662	750.029	746.726	746.049	749.305	753.379
42.0	742.615	742.191	742.558	739.275	738.616	741.711	745.917
42.5	735.106	734.683	735.078	731.578	731.362	734.006	738.070
43.0	727.654	727.316	727.626	724.145	723.533	726.262	730.430
43.5	719.807	719.685	719.948	716.599	715.649	718.283	722.272
44.0	712.064	711.734	712.054	708.931	707.961	710.511	714.567
44.5	704.320	704.113	704.386	701.149	700.312	702.570	706.503
45.0	696.558	696.417	696.661	693.359	692.465	694.676	698.825
45.5	688.541	688.617	688.833	685.634	684.627	686.697	690.574
46.0	680.911	680.816	680.939	677.768	676.874	678.634	682.632
46.5	673.101	672.856	673.176	669.996	669.225	670.758	674.522
47.0	664.991	664.840	665.038	662.055	661.001	662.648	666.552
47.5	656.833	656.748	656.918	653.803	652.938	654.434	658.169
48.0	649.174	648.788	648.807	645.711	644.996	646.238	650.124
48.5	641.016	640.649	640.998	637.808	636.999	638.024	641.938
49.0	632.925	632.520	632.812	629.820	629.048	629.970	633.734
49.5	624.701	624.278	624.551	621.512	620.768	621.709	625.247
50.0	616.497	616.280	616.487	613.175	612.517	613.307	617.061
50.5	608.301	608.057	608.282	605.093	604.321	605.018	608.546
51.0	599.955	599.476	599.861	597.029	596.230	596.606	600.313
51.5	591.732	591.262	591.581	588.382	588.053	588.138	591.864
52.0	583.320	583.255	583.443	580.008	579.472	579.773	583.433
52.5	574.993	574.862	575.229	571.879	571.211	571.512	574.805
53.0	566.431	566.563	566.789	563.778	563.006	562.959	566.243
53.5	558.010	558.020	558.264	555.084	554.454	554.275	557.690
54.0	549.599	549.674	549.937	546.578	545.882	545.957	549.119
54.5	540.820	541.130	541.497	538.214	537.282	537.207	540.566
55.0	532.248	532.794	533.086	529.755	528.880	528.663	531.966
55.5	523.743	524.185	524.731	521.259	520.195	520.703	523.131
56.0	515.180	515.933	516.300	512.800	511.652	516.291	514.484
56.5	506.581	507.258	507.653	504.294	503.137	511.784	505.790
57.0	497.727	498.545	499.063	495.619	494.114	503.946	497.040
57.5	488.920	490.040	490.868	486.991	485.335	495.036	488.177
58.0	480.151	481.515	481.854	478.429	476.942	485.533	479.247
58.5	471.344	472.887	473.376	469.791	469.669	472.529	470.506
59.0	462.735	464.315	464.795	461.107	463.920	459.903	461.700
59.5	453.984	455.603	456.581	452.686	457.513	450.371	452.902
60.0	445.055	446.899	447.577	444.105	449.797	441.451	444.114
60.5	436.013	438.177	438.845	435.053	441.188	432.607	435.110
61.0	427.423	429.577	430.386	426.369	431.760	423.744	426.058
61.5	418.644	420.940	421.909	417.901	422.041	414.862	417.120
62.0	409.593	412.058	413.102	409.207	411.361	406.083	408.219
62.5	400.739	403.364	404.211	400.353	399.807	397.323	399.393
63.0	391.763	394.726	395.696	391.603	389.128	388.422	390.219
63.5	382.683	385.920	386.832	382.946	379.766	379.578	381.065
64.0	373.867	377.216	377.941	374.027	370.799	370.875	372.229
64.5	365.088	368.494	369.435	365.380	362.115	362.124	363.413
65.0	356.149	359.781	360.854	356.780	353.506	353.082	354.249
65.5	347.079	351.059	352.066	347.860	345.084	344.097	345.047
66.0	338.263	342.648	343.306	338.959	336.428	335.243	336.033
66.5	329.343	333.681	334.556	330.369	327.781	326.154	327.217
67.0	320.546	324.893	325.975	321.957	319.134	317.431	318.184
67.5	311.438	316.058	317.112	312.746	309.773	310.459	308.926
68.0	302.631	307.759	308.483	303.958	300.420	305.858	300.006

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68.5	293.834	298.990	300.044	295.584	291.246	301.540	291.143
69.0	285.027	289.967	291.067	286.956	282.355	295.094	282.072
69.5	276.201	281.291	282.336	277.829	273.435	285.685	273.030
70.0	267.187	272.842	273.830	269.276	264.572	275.910	264.120
70.5	258.522	264.177	265.315	260.780	255.868	265.174	255.087
71.0	249.790	255.323	256.329	252.048	247.400	252.895	246.205
71.5	241.181	246.807	247.908	243.326	240.014	243.872	237.427
72.0	232.694	238.678	239.610	235.131	229.918	233.259	228.488
72.5	223.878	229.918	230.887	226.418	221.366	223.426	219.465
73.0	215.156	221.046	222.175	217.988	212.832	215.541	210.724
73.5	206.819	212.803	213.725	209.548	204.345	206.556	202.039
74.0	198.549	204.834	205.257	201.409	196.065	197.382	193.411
74.5	190.297	196.206	196.516	193.007	187.775	188.208	184.783
75.0	182.045	187.578	187.785	184.605	179.486	179.034	176.024
75.5	173.794	178.950	179.044	176.212	171.206	169.851	167.631
76.0	165.542	170.322	170.303	167.810	162.917	160.696	159.219
76.5	157.140	161.694	161.600	159.407	154.731	152.670	150.920
77.0	149.321	153.160	153.734	151.061	146.799	146.366	142.810
77.5	141.229	144.852	146.338	142.603	139.037	143.854	134.671
78.0	133.250	136.534	139.724	134.285	131.209	137.004	126.664
78.5	125.375	128.922	134.041	126.401	123.371	124.782	118.826
79.0	117.594	122.599	128.405	119.410	115.608	116.069	110.650
79.5	109.540	116.418	124.039	113.331	107.902	108.693	103.104
80.0	101.655	111.130	119.795	107.150	100.319	100.648	95.737
80.5	94.344	106.491	115.684	102.257	92.792	90.797	88.266
81.0	86.704	101.758	111.515	97.665	85.424	83.138	81.096
81.5	79.440	96.875	107.234	92.961	77.982	76.091	74.331
82.0	73.296	92.076	102.869	88.191	70.953	68.526	67.575
82.5	67.566	87.099	96.104	83.307	64.621	61.384	60.829
83.0	61.921	80.221	84.879	78.189	58.665	54.704	54.083
83.5	56.303	69.777	71.358	70.003	53.198	48.231	47.327
84.0	50.799	58.317	57.385	59.681	47.713	41.767	40.807
84.5	45.050	46.311	44.410	48.381	42.152	35.641	34.258
85.0	37.692	35.415	33.759	37.175	36.742	29.836	28.716
85.5	31.708	29.638	28.312	31.163	31.059	25.950	24.209
86.0	25.715	23.852	22.854	25.150	25.367	22.064	20.295
86.5	19.721	18.075	17.407	19.147	19.684	18.178	16.729
87.0	13.728	12.298	11.949	13.135	14.001	14.292	13.493
87.5	7.885	6.633	6.567	7.170	8.393	10.435	10.256
88.0	4.723	3.481	3.303	4.065	5.420	7.226	7.951
88.5	2.286	1.327	1.270	1.797	3.086	4.300	6.266
89.0	1.063	0.536	0.358	0.724	1.524	1.995	4.601
89.5	1.026	0.517	0.320	0.649	1.167	1.204	2.936
90.0	1.176	0.536	0.310	0.696	1.270	1.336	1.280
90.5	1.223	0.555	0.320	0.734	1.505	1.694	1.317
91.0	1.270	0.583	0.329	0.762	1.590	1.929	1.515
91.5	1.308	0.612	0.329	0.800	1.637	1.995	1.590
92.0	1.364	0.640	0.348	0.847	1.684	2.070	1.618
92.5	1.524	0.687	0.376	0.903	1.759	2.126	1.637
93.0	1.618	0.734	0.395	0.913	1.844	2.230	1.741
93.5	1.590	0.715	0.386	0.922	1.910	2.333	1.788
94.0	1.515	0.696	0.395	0.922	1.891	2.399	1.816
94.5	1.458	0.677	0.395	0.922	1.882	2.390	1.816
95.0	1.458	0.668	0.405	0.922	1.882	2.343	1.797
95.5	1.430	0.668	0.414	0.913	1.825	2.362	1.797
96.0	1.402	0.668	0.423	0.913	1.788	2.569	1.788

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CANDELA TABULATION - (Cont.)

96.5	1.374	0.668	0.433	0.913	1.759	2.691	1.731
97.0	1.364	0.668	0.433	0.913	1.750	2.776	1.684
97.5	1.355	0.677	0.442	0.922	1.741	2.832	1.684
98.0	1.336	0.687	0.461	0.922	1.731	3.321	1.712
98.5	1.327	0.706	0.470	0.931	1.759	3.764	1.712
99.0	1.317	0.706	0.480	0.931	1.722	4.121	1.694
99.5	1.308	0.715	0.489	0.931	1.694	3.839	1.684
100.0	1.308	0.715	0.489	0.922	1.684	3.528	1.694
100.5	1.355	0.715	0.499	0.922	1.694	3.387	1.882
101.0	1.317	0.715	0.508	0.922	1.731	2.832	1.929
101.5	1.298	0.715	0.508	0.922	1.844	2.296	1.995
102.0	1.298	0.724	0.508	0.922	2.117	2.296	2.070
102.5	1.298	0.724	0.527	0.922	2.258	2.249	2.164
103.0	1.374	0.724	0.536	0.922	1.844	2.221	2.183
103.5	1.835	0.724	0.536	0.922	1.891	2.211	2.183
104.0	2.409	0.734	0.546	0.922	2.315	2.211	2.211
104.5	2.249	0.734	0.546	0.922	2.428	2.239	2.079
105.0	1.919	0.734	0.555	0.922	2.804	2.258	2.014
105.5	1.440	0.734	0.565	0.913	2.522	2.691	2.202
106.0	1.336	0.734	0.574	0.922	2.305	2.522	1.957
106.5	1.327	0.743	0.574	0.913	1.957	2.550	2.155
107.0	1.317	0.743	0.583	0.913	1.675	2.211	2.014
107.5	1.317	0.753	0.593	0.922	1.656	2.550	1.957
108.0	1.317	0.762	0.602	0.922	1.656	2.700	1.985
108.5	1.317	0.753	0.612	0.931	1.656	2.512	2.051
109.0	1.336	0.762	0.612	0.941	1.647	2.493	2.126
109.5	1.336	0.762	0.612	0.941	1.647	2.145	1.938
110.0	1.308	0.762	0.621	0.960	1.637	2.136	1.938
110.5	1.308	0.762	0.630	0.979	1.618	2.202	2.108
111.0	1.298	0.772	0.630	0.988	1.609	2.211	1.788
111.5	1.280	0.772	0.630	0.997	1.590	2.108	2.070
112.0	1.270	0.772	0.630	0.997	1.571	2.108	1.891
112.5	1.251	0.772	0.640	0.997	1.552	2.277	1.919
113.0	1.242	0.772	0.640	0.997	1.534	2.625	1.741
113.5	1.223	0.781	0.640	1.007	1.524	2.540	2.023
114.0	1.214	0.772	0.640	1.007	1.515	2.183	1.797
114.5	1.195	0.772	0.640	1.007	1.496	2.023	1.995
115.0	1.186	0.772	0.640	1.007	1.487	2.004	1.694
115.5	1.176	0.772	0.640	1.007	1.477	1.995	1.694
116.0	1.167	0.772	0.640	1.007	1.468	1.985	2.098
116.5	1.157	0.772	0.640	0.997	1.458	2.023	1.816
117.0	1.148	0.762	0.649	0.988	1.449	2.362	1.759
117.5	1.138	0.753	0.649	0.979	1.449	2.700	1.656
118.0	1.129	0.753	0.649	0.969	1.534	2.559	1.647
118.5	1.120	0.743	0.649	0.960	1.534	2.286	1.647
119.0	1.110	0.734	0.659	0.941	1.449	1.995	1.731
119.5	1.101	0.724	0.659	0.931	1.430	1.948	1.966
120.0	1.091	0.715	0.659	0.922	1.411	1.948	1.722
120.5	1.091	0.715	0.659	0.913	1.402	1.995	1.647
121.0	1.082	0.715	0.659	0.903	1.402	2.221	1.656
121.5	1.073	0.706	0.668	0.894	1.393	1.948	1.656
122.0	1.073	0.706	0.668	0.884	1.393	1.882	1.656
122.5	1.073	0.706	0.668	0.884	1.402	1.863	1.647
123.0	1.129	0.696	0.668	0.875	1.421	1.835	1.637
123.5	1.402	0.696	0.668	0.866	1.383	1.854	1.628
124.0	1.477	0.687	0.668	0.856	1.317	1.882	1.590

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CANDELA TABULATION - (Cont.)

124.5	1.251	0.687	0.668	0.847	1.270	1.684	1.562
125.0	1.016	0.687	0.668	0.847	1.242	1.656	1.477
125.5	0.969	0.687	0.668	0.847	1.233	1.656	1.298
126.0	0.941	0.687	0.668	0.856	1.233	1.618	1.280
126.5	0.931	0.687	0.677	0.856	1.223	1.374	1.317
127.0	0.931	0.687	0.677	0.856	1.204	1.336	1.289
127.5	0.922	0.687	0.687	0.856	1.214	1.383	1.110
128.0	0.922	0.696	0.687	0.856	1.298	1.468	1.148
128.5	0.913	0.696	0.696	0.856	1.430	1.515	1.063
129.0	0.913	0.696	0.706	0.866	1.383	1.571	0.997
129.5	0.950	0.706	0.715	0.866	1.317	1.637	1.157
130.0	0.969	0.706	0.734	0.856	1.298	1.825	1.327
130.5	0.979	0.706	0.743	0.828	1.270	1.844	1.411
131.0	1.035	0.687	0.753	0.828	1.270	1.891	1.505
131.5	1.035	0.687	0.753	0.819	1.289	1.722	1.515
132.0	1.026	0.687	0.762	0.800	1.308	1.581	1.515
132.5	1.026	0.687	0.762	0.800	1.317	1.543	1.524
133.0	1.044	0.687	0.753	0.809	1.336	1.543	1.524
133.5	1.044	0.687	0.762	0.809	1.374	1.534	1.524
134.0	1.054	0.696	0.772	0.809	1.374	1.524	1.524
134.5	1.073	0.696	0.762	0.809	1.383	1.505	1.524
135.0	1.082	0.706	0.772	0.819	1.374	1.496	1.543
135.5	1.082	0.706	0.781	0.837	1.374	1.515	1.543
136.0	1.101	0.734	0.781	0.847	1.383	1.534	1.543
136.5	1.091	0.734	0.790	0.847	1.393	1.534	1.552
137.0	1.110	0.743	0.800	0.866	1.383	1.534	1.543
137.5	1.120	0.762	0.819	0.866	1.355	1.543	1.534
138.0	1.110	0.781	0.837	0.866	1.345	1.552	1.524
138.5	1.110	0.790	0.837	0.875	1.336	1.562	1.534
139.0	1.101	0.800	0.837	0.894	1.327	1.562	1.543
139.5	1.082	0.809	0.856	0.913	1.298	1.562	1.543
140.0	1.063	0.819	0.866	0.922	1.289	1.581	1.543
140.5	1.054	0.828	0.866	0.950	1.261	1.590	1.543
141.0	1.063	0.847	0.875	0.960	1.233	1.581	1.534
141.5	1.035	0.847	0.875	0.979	1.176	1.581	1.534
142.0	1.035	0.856	0.884	0.997	1.157	1.571	1.543
142.5	1.176	0.866	0.894	1.007	1.148	1.552	1.581
143.0	1.345	0.866	0.903	1.007	1.110	1.534	1.562
143.5	1.214	0.875	0.913	1.016	1.035	1.534	1.515
144.0	1.026	0.884	0.922	1.026	1.016	1.515	1.496
144.5	0.988	0.894	0.941	1.026	0.997	1.505	1.496
145.0	0.979	0.903	0.922	1.035	0.997	1.487	1.487
145.5	0.969	0.913	0.922	1.044	1.007	1.487	1.487
146.0	0.960	0.903	0.931	1.035	1.026	1.458	1.487
146.5	0.950	0.903	0.941	1.026	1.035	1.430	1.477
147.0	0.941	0.913	0.950	1.026	1.026	1.411	1.468
147.5	0.950	0.913	0.950	1.026	1.044	1.383	1.430
148.0	0.969	0.931	0.941	1.035	1.026	1.336	1.411
148.5	0.988	0.960	0.922	1.054	1.016	1.270	1.393
149.0	0.988	0.969	0.922	1.082	1.044	1.214	1.393
149.5	0.997	0.969	0.922	1.138	1.073	1.186	1.402
150.0	1.007	0.941	0.931	1.167	1.101	1.167	1.487
150.5	1.016	0.931	0.950	1.251	1.110	1.110	1.402
151.0	1.016	0.941	0.969	1.411	1.120	1.026	1.167
151.5	1.016	0.960	0.979	1.421	1.138	0.997	1.110
152.0	1.035	0.960	0.969	1.251	1.138	1.007	1.091

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CANDELA TABULATION - (Cont.)

152.5	1.044	0.950	0.950	1.110	1.129	1.016	1.035
153.0	1.044	0.950	0.950	1.082	1.120	1.026	0.941
153.5	1.035	0.997	0.960	1.082	1.120	1.026	0.922
154.0	1.026	1.035	0.969	1.082	1.138	1.073	0.903
154.5	1.026	0.997	0.979	1.054	1.176	1.073	0.913
155.0	1.026	0.979	0.969	1.054	1.195	1.082	0.922
155.5	1.026	0.979	0.979	1.073	1.186	1.148	0.931
156.0	1.016	0.988	1.016	1.082	1.176	1.186	0.922
156.5	1.044	0.988	1.026	1.082	1.176	1.195	0.979
157.0	1.054	0.960	1.016	1.082	1.176	1.204	1.026
157.5	1.035	0.960	1.026	1.091	1.186	1.204	1.035
158.0	1.044	0.969	1.035	1.091	1.186	1.186	1.110
158.5	1.063	0.979	1.035	1.082	1.186	1.176	1.261
159.0	1.044	1.007	1.044	1.101	1.167	1.167	1.411
159.5	1.035	1.016	1.044	1.082	1.148	1.157	1.402
160.0	1.035	1.026	1.044	1.063	1.148	1.157	1.298
160.5	1.044	1.026	1.035	1.063	1.148	1.167	1.242
161.0	1.044	1.026	1.035	1.063	1.157	1.176	1.233
161.5	1.035	1.016	1.026	1.073	1.167	1.186	1.223
162.0	1.026	1.016	1.016	1.063	1.204	1.186	1.195
162.5	1.007	1.016	1.007	1.035	1.298	1.186	1.176
163.0	0.979	1.016	1.007	1.035	1.317	1.176	1.176
163.5	0.960	1.035	0.997	1.035	1.186	1.157	1.167
164.0	0.941	1.054	1.007	1.026	1.129	1.129	1.186
164.5	0.941	1.044	1.016	1.016	1.129	1.120	1.204
165.0	0.941	1.016	1.016	1.026	1.157	1.120	1.204
165.5	0.941	1.007	1.026	1.044	1.186	1.129	1.204
166.0	0.941	1.016	1.026	1.054	1.148	1.223	1.214
166.5	0.950	1.035	1.026	1.063	1.110	1.336	1.223
167.0	0.969	1.063	1.026	1.091	1.129	1.308	1.223
167.5	0.969	1.026	0.979	1.101	1.129	1.176	1.223
168.0	0.960	1.007	0.969	1.063	1.138	1.091	1.233
168.5	0.931	1.007	0.960	1.054	1.129	1.073	1.280
169.0	0.922	0.988	0.969	1.026	1.120	1.063	1.411
169.5	0.931	0.979	0.960	1.035	1.101	1.101	1.534
170.0	0.931	0.960	0.941	1.035	1.073	1.129	1.477
170.5	0.950	0.950	0.941	1.016	1.035	1.129	1.298
171.0	0.960	0.950	0.922	0.988	1.007	1.120	1.204
171.5	0.969	0.969	0.922	0.950	0.997	1.101	1.186
172.0	0.979	0.997	0.922	0.931	0.979	1.082	1.157
172.5	0.988	0.960	0.913	0.922	0.997	1.063	1.148
173.0	0.969	0.931	0.931	0.894	1.035	1.073	1.167
173.5	0.988	0.913	0.988	0.931	1.007	1.091	1.186
174.0	1.016	0.950	0.988	0.941	1.026	1.091	1.214
174.5	1.073	1.016	0.979	0.894	1.016	1.110	1.223
175.0	1.138	1.044	1.026	0.922	1.063	1.138	1.223
175.5	1.195	1.035	1.082	0.922	1.082	1.167	1.251
176.0	1.186	1.054	1.091	0.979	1.073	1.176	1.289
176.5	1.176	1.063	1.082	1.026	1.091	1.186	1.355
177.0	1.167	1.091	1.110	1.082	1.073	1.204	1.487
177.5	1.157	1.082	1.129	1.129	1.063	1.251	1.468
178.0	1.157	1.073	1.101	1.120	1.054	1.242	1.355
178.5	1.176	1.138	1.044	1.120	1.044	1.214	1.280
179.0	1.317	1.233	1.073	1.138	1.054	1.223	1.251
179.5	1.374	1.261	1.091	1.186	1.073	1.223	1.270
180.0	1.289	1.289	1.289	1.289	1.289	1.289	1.289

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	406.82	N.A.	13.40
0-30	856.76	N.A.	28.20
0-40	1390.46	N.A.	45.80
0-60	2418.78	N.A.	79.60
0-80	2980.71	N.A.	98.10
0-90	3029.47	N.A.	99.70
10-90	2923.56	N.A.	96.30
20-40	983.63	N.A.	32.40
20-50	1528.17	N.A.	50.30
40-70	1390.11	N.A.	45.80
60-80	561.93	N.A.	18.50
70-80	200.14	N.A.	6.60
80-90	48.77	N.A.	1.60
90-110	3.10	N.A.	0.10
90-120	4.41	N.A.	0.10
90-130	5.44	N.A.	0.20
90-150	7.02	N.A.	0.20
90-180	7.91	N.A.	0.30
110-180	4.82	N.A.	0.20
0-180	3037.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.91
10-20	300.92
20-30	449.93
30-40	533.70
40-50	544.54
50-60	483.78
60-70	361.80
70-80	200.14
80-90	48.77
90-100	1.52
100-110	1.58
110-120	1.31
120-130	1.03
130-140	0.88
140-150	0.70
150-160	0.49
160-170	0.31
170-180	0.10

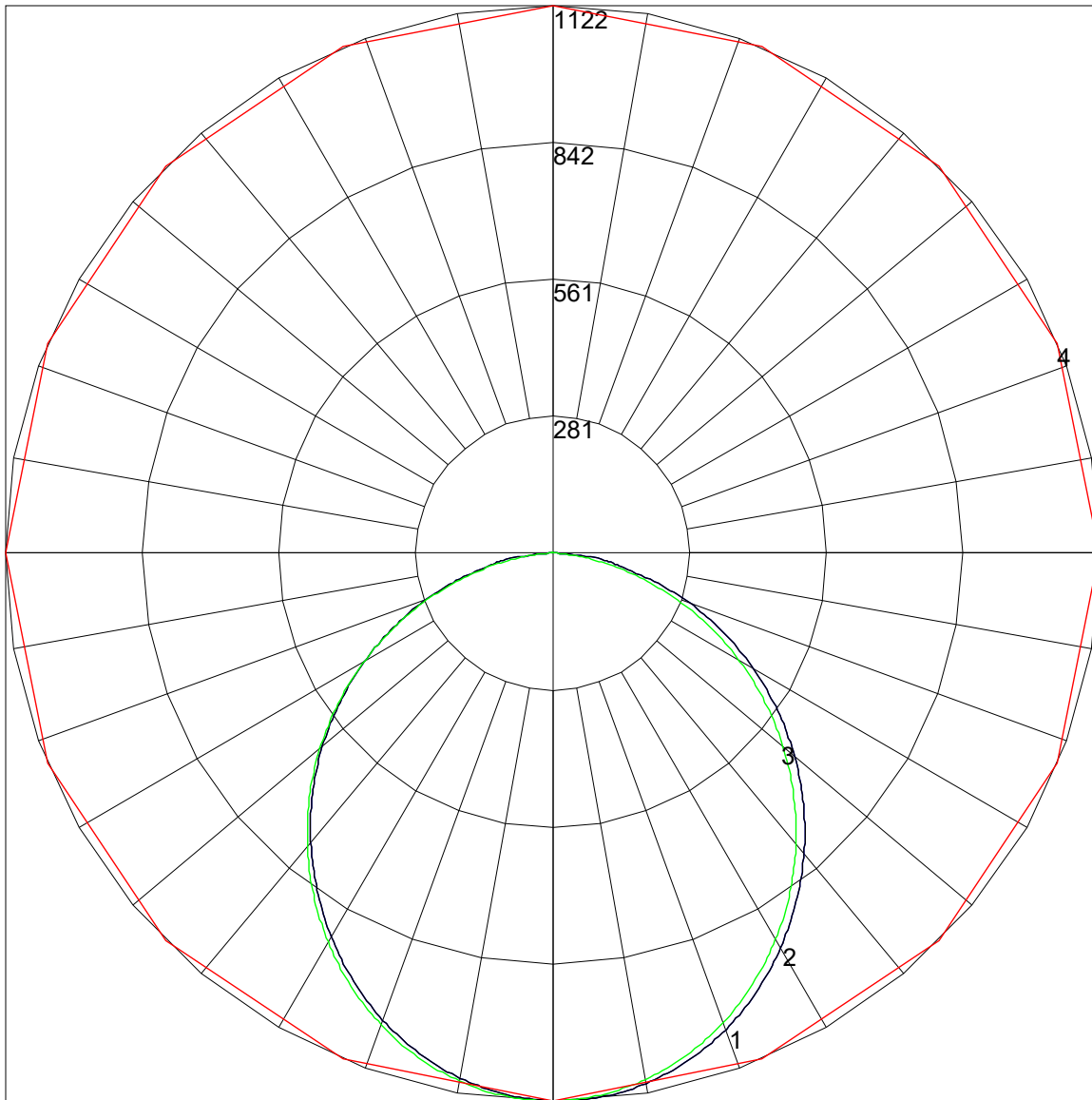
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59
4	83	71	62	55	80	70	61	55	67	60	54	65	58	54	62	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

POLAR GRAPH



Maximum Candela = 1122.39 Located At Horizontal Angle = 90, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)