IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-MJ-15W-LED-XX-PND.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 193032
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2021-04-05 16:17:58
[ISSUEDATE] 2021-04-05 16:17:58
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] EPL-MJ-15W-LED-XX-PND-50K
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED MASON JAR FIXTURE
[MORE] PENDANT MOUNT, 5000K
[LAMPPOSITION] 0,0
[OTHER] ZVISION 9107GT SYSTEM

CHARACTERISTICS

Lumens Per Lamp	2242 (1 lamp)
Total Lamp Lumens	2242
Luminaire Lumens	2241
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	14.9
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.80
Spacing Criterion (90-270)	1.68
Spacing Criterion (Diagonal)	1.98
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	0.10 m
Luminous Height	0.10 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21783	17644	20963
55	21752	16915	21225
65	21243	16507	20165
75	20561	16182	20147
85	20385	16120	20887

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	239.302	239.302	239.302	239.302	239.302	239.302	239.302	239.302	239.302	239.302
0.5	240.538	240.610	237.645	239.638	237.465	239.074	235.713	238.720	238.822	238.900
1.0	235.298	241.582	232.832	239.530	232.694	238.353	236.649	235.196	236.559	240.028
1.5	233.150	235.232	228.900	233.582	230.605	236.655	239.668	233.864	240.334	234.380
2.0	232.111	231.727	226.590	230.767	229.351	236.859	238.263	236.799	243.245	232.946
2.5	233.906	229.705	226.026	228.594	229.363	237.723	236.739	243.065	242.795	239.896
3.0	237.861	229.008	226.044	225.407	229.315	237.111	236.223	244.205	242.627	240.718
3.5	240.904	230.059	223.577	221.470	227.700	236.871	237.915	242.729	243.875	236.625
4.0	240.904	231.475	221.920	220.456	226.866	237.045	238.864	241.294	244.739	233.132
4.5	240.802	232.033	222.947	222.310	227.196	235.887	238.972	241.018	244.313	233.126
5.0	239.758	233.030	223.745	223.799	226.866	233.780	239.080	237.051	242.375	236.151
5.5	239.308	232.003	221.998	224.879	226.464	231.673	239.152	233.870	239.008	238.161
6.0	238.287	233.294	220.042	224.951	226.152	231.079	238.780	233.228	235.845	235.413
6.5	235.845	233.468	219.351	224.255	228.402	230.107	239.314	233.564	234.404	233.228
7.0	236.331	231.547	220.996	222.971	230.899	228.300	239.158	234.248	233.750	231.997
7.5	237.009	230.473	224.027	221.944	229.975	226.938	237.651	237.873	236.187	232.286
8.0	235.719	230.515	225.215	223.223	227.880	225.455	235.148	238.251	235.437	231.703
8.5	236.187	230.719	222.340	228.084	224.483	225.497	234.302	236.535	233.066	234.668
9.0	234.866	231.415	218.559	232.310	222.718	224.267	235.473	232.988	230.089	235.178
9.5	228.912	230.431	215.732	234.422	221.974	221.434	235.683	230.089	226.386	232.400
10.0	221.872	227.898	214.712	235.118	221.422	217.593	234.626	229.555	222.658	230.239
10.5	219.141	225.179	214.508	228.084	219.898	214.310	231.847	231.571	221.452	230.413
11.0	219.459	226.176	216.531	219.057	219.435	213.296	227.556	231.679	226.146	233.786
11.5	215.438	222.064	219.525	211.567	218.511	214.682	226.182	227.400	226.458	233.588
12.0	213.320	218.043	218.217	209.490	215.546	216.687	224.345	225.755	229.273	230.773
12.5	212.797	220.192	215.732	210.463	212.959	217.167	222.899	223.697	230.185	229.195
13.0	210.871	221.662	213.187	210.313	212.185	215.090	223.553	221.062	228.456	229.417
13.5	207.558	218.667	211.003	207.348	211.141	211.297	223.979	222.418	226.278	228.726
14.0	205.823	212.707	212.947	204.299	207.144	209.526	219.610	223.007	225.593	224.123
14.5	202.570	210.601	212.635	202.942	202.510	210.127	216.951	222.472	224.945	220.300
15.0	199.545	211.645	211.657	202.594	199.083	210.469	216.849	221.764	223.775	217.113
15.5	198.975	213.470	211.813	200.800	198.759	210.193	217.047	219.706	221.956	215.696
16.0	197.511	214.838	212.413	200.265	199.047	212.875	213.632	216.092	219.910	215.444
16.5	194.402	212.701	208.464	199.983	200.031	218.241	209.802	213.572	216.669	213.908
17.0	189.828	207.360	203.440	197.324	198.447	223.409	206.135	211.663	213.830	210.949
17.5	186.317	200.608	200.379	191.305	195.164	222.911	204.695	208.722	212.935	208.500
18.0	185.087	198.717	199.449	187.097	192.385	218.811	202.402	204.869	211.885	204.395
18.5	184.907	198.339	195.962	186.017	191.305	213.974	199.593	200.163	210.319	199.293
19.0	186.545	199.353	194.942	186.179	191.707	211.849	197.150	197.348	208.170	194.570
19.5	191.533	204.773	196.406	186.683	193.087	212.023	193.669	194.221	204.959	191.557
20.0	192.187	207.084	191.671	185.903	194.570	213.770	190.218	190.746	202.774	189.354
20.5	183.754	198.039	185.291	184.030	193.447	212.527	186.797	187.553	200.836	185.915
21.0	177.752	191.347	186.839	182.122	192.733	206.531	184.192	184.000	199.137	184.420
21.5	180.813	192.013	185.933	183.784	190.416	198.585	182.764	181.251	197.655	186.203
22.0	187.511	194.744	183.592	185.831	188.904	194.173	182.944	179.553	195.194	191.046
22.5	188.922	195.386	182.584	185.681	189.084	191.004	185.087	179.463	193.135	194.119
23.0	183.148	189.792	184.804	181.335	189.606	188.568	185.987	181.053	190.830	190.992
23.5	178.394	186.371	185.573	180.783	189.288	187.691	183.310	183.268	191.383	187.307
24.0	180.243	188.664	186.119	181.491	190.098	186.647	179.523	185.597	190.776	188.010
24.5	184.054	192.853	187.799	181.587	191.725	186.149	177.422	183.706	189.672	190.836
25.0	187.079	196.988	187.974	181.089	192.013	187.643	178.857	178.118	189.306	193.273
25.5	188.166	195.800	191.034	178.010	191.593	189.300	182.122	175.412	190.752	193.513
26.0	188.934	192.763	193.525	177.092	189.174	191.785	183.340	175.490	193.597	190.326
26.5	194.780	193.063	194.618	179.907	185.915	195.632	183.778	177.980	193.891	186.059

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CANDELA TABULATION - (Cont.)

27.0	206.321	196.946	197.024	183.850	185.033	195.410	183.868	180.153	194.576	186.299
27.5	224.261	202.624	199.185	187.992	187.595	196.424	183.676	179.979	194.263	190.758
28.0	245.370	208.242	203.302	193.063	192.451	195.524	184.732	180.291	192.985	198.003
28.5	262.859	215.510	209.550	198.291	197.571	195.692	188.994	181.305	192.415	206.219
29.0	266.910	219.808	217.425	204.971	202.414	197.402	194.450	183.472	193.975	213.872
29.5	262.769	224.291	226.758	212.713	206.699	200.962	199.593	186.965	198.885	218.127
30.0	246.612	233.018	236.079	222.821	214.094	202.720	205.715	193.513	204.431	224.483
30.5	233.774	241.691	243.647	236.631	224.387	204.767	211.645	201.226	210.163	236.319
31.0	234.566	250.207	248.845	247.152	236.481	206.357	219.249	207.732	214.460	248.095
31.5	242.039	258.196	253.322	251.750	247.830	208.500	227.118	215.084	218.673	259.936
32.0	252.110	261.779	259.204	245.778	251.936	212.341	236.121	223.037	225.653	265.590
32.5	271.226	264.546	265.236	235.869	248.839	218.397	244.421	232.580	232.466	265.428
33.0	281.693	265.686	270.908	220.900	241.630	228.402	244.625	240.766	239.728	258.748
33.5	271.592	264.426	275.121	215.684	233.372	236.031	237.081	245.178	246.228	249.169
34.0	254.264	264.024	285.084	219.489	226.656	242.015	228.000	243.389	253.856	239.146
34.5	243.419	264.354	293.757	227.970	225.851	247.578	220.744	234.140	260.566	235.761
35.0	243.887	267.349	292.305	242.897	231.751	250.837	219.886	221.158	262.907	242.309
35.5	248.203	274.563	286.987	255.603	243.005	254.114	224.309	215.726	264.486	259.120
36.0	256.161	281.939	292.605	263.964	257.578	258.682	233.690	214.934	270.194	275.115
36.5	264.882	283.524	298.985	276.490	267.595	260.945	247.914	220.918	276.003	283.314
37.0	273.140	282.011	300.731	283.626	272.144	262.985	260.903	234.938	280.559	291.434
37.5	282.077	284.994	301.836	278.272	279.719	267.325	273.951	254.643	285.582	299.213
38.0	291.314	291.518	301.962	264.390	283.032	272.150	282.515	266.694	294.441	302.526
38.5	295.558	295.828	305.527	250.831	278.848	275.973	281.417	277.834	298.288	297.406
39.0	292.166	296.896	308.036	241.132	271.532	276.682	269.593	286.135	290.768	288.445
39.5	285.012	300.593	310.172	236.841	264.714	273.357	253.784	282.467	281.033	279.166
40.0	280.253	308.444	307.771	240.184	259.780	271.508	241.817	269.239	279.022	274.473
40.5	278.902	310.088	302.070	248.269	258.880	269.995	238.185	254.859	279.268	274.401
41.0	282.509	304.200	297.418	256.887	264.042	268.753	239.176	244.205	278.470	281.459
41.5	287.575	300.713	297.430	265.302	270.037	271.616	243.641	241.666	281.783	289.808
42.0	291.302	301.433	297.814	271.946	273.321	276.430	250.177	244.223	286.873	294.699
42.5	292.251	303.624	297.250	278.770	273.837	282.125	258.682	249.325	289.838	296.422
43.0	292.533	304.830	296.992	285.300	275.973	289.652	267.523	254.072	292.202	301.175
43.5	294.195	304.710	298.396	289.514	282.509	290.942	278.680	259.648	297.466	308.282
44.0	298.066	305.053	299.615	291.086	291.362	288.439	287.737	269.581	302.064	313.521
44.5	303.702	305.383	300.107	289.562	296.128	284.652	291.326	279.965	302.136	313.539
45.0	308.186	304.602	301.331	287.281	296.590	282.954	290.162	287.131	299.255	308.810
45.5	311.174	303.396	304.020	285.588	295.402	282.719	288.985	287.863	295.329	303.786
46.0	313.605	302.964	305.905	285.006	294.147	283.734	289.322	286.645	293.313	303.564
46.5	315.118	303.804	306.841	283.944	293.955	284.400	287.935	287.713	292.269	305.659
47.0	316.120	303.774	306.469	281.867	293.643	284.238	283.128	292.281	292.082	307.255
47.5	314.878	302.130	305.533	279.004	292.281	285.240	273.627	293.961	293.775	305.143
48.0	311.054	301.157	304.716	277.246	289.466	287.935	266.064	289.003	297.742	302.352
48.5	306.883	301.547	301.331	277.960	287.299	290.864	262.769	280.565	300.755	302.178
49.0	304.885	302.958	296.980	279.869	286.915	292.563	264.534	274.521	303.804	304.206
49.5	303.654	303.426	293.529	282.137	285.973	292.178	268.609	274.233	305.245	306.241
50.0	302.772	303.462	291.110	284.466	284.406	291.146	273.399	275.943	304.993	306.343
50.5	302.058	303.468	289.772	286.975	282.365	289.802	276.694	275.763	302.424	306.463
51.0	302.850	301.770	289.328	291.092	281.489	288.751	279.695	275.895	299.531	304.927
51.5	304.794	299.645	289.172	295.984	282.419	287.059	282.569	277.366	296.146	304.110
52.0	307.231	297.286	289.532	299.273	284.766	285.762	285.384	280.847	291.608	303.990
52.5	307.873	296.056	290.252	301.776	288.019	283.380	287.827	284.610	289.238	305.029
53.0	306.973	295.612	291.692	302.070	291.800	281.381	288.133	286.471	287.869	306.631
53.5	305.443	295.371	292.743	299.885	295.504	280.439	288.187	287.083	286.423	308.330
54.0	304.302	294.717	293.361	297.184	297.526	281.045	288.619	287.959	285.450	309.470
54.5	303.624	293.397	293.709	295.065	297.172	282.846	289.015	289.370	285.684	310.412

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CANDELA TABULATION - (Cont.)

55.0	303.072	292.082	293.097	292.779	295.726	283.872	289.424	290.768	286.303	310.796
55.5	301.499	290.960	291.692	289.844	294.303	285.192	288.097	292.263	287.089	311.517
56.0	298.901	289.976	290.558	286.471	292.106	286.189	284.508	293.547	287.995	310.706
56.5	296.758	288.841	289.076	283.260	288.061	286.873	279.178	293.901	289.562	308.120
57.0	294.963	287.491	286.777	281.609	283.566	287.407	274.311	292.088	291.248	303.756
57.5	293.937	285.792	284.622	280.643	278.638	287.467	270.974	288.529	292.347	299.447
58.0	293.133	284.202	282.990	279.532	275.745	286.807	269.467	284.292	292.245	295.726
58.5	292.581	282.599	281.981	277.894	274.095	285.690	268.165	279.358	291.074	292.419
59.0	292.010	281.489	281.453	276.411	272.996	284.556	266.784	273.633	289.238	289.946
59.5	291.266	280.673	281.015	275.997	272.402	282.834	266.034	269.221	286.405	287.677
60.0	291.098	280.229	280.949	276.616	272.354	281.093	265.422	266.989	283.662	286.249
60.5	291.530	279.388	281.333	277.870	273.104	278.386	264.510	266.424	281.003	285.456
61.0	291.938	278.776	281.825	279.538	273.411	275.121	264.120	266.340	278.884	285.138
61.5	291.800	278.212	282.287	281.009	273.345	272.648	264.570	266.316	276.910	285.228
62.0	291.146	277.804	282.503	281.939	273.681	270.488	265.686	266.436	275.061	285.732
62.5	290.198	277.468	282.731	282.407	273.975	269.665	267.283	267.499	273.741	286.513
63.0	288.835	277.372	282.930	282.317	273.531	269.527	268.453	268.999	272.942	287.143
63.5	287.179	277.372	282.750	281.429	272.546	270.320	269.239	270.452	272.690	287.383
64.0	285.630	277.426	282.581	279.550	271.202	271.814	269.821	271.490	273.020	287.551
64.5	283.950	277.342	282.047	277.282	269.671	273.789	269.539	272.048	273.807	287.113
65.0	282.419	277.330	281.453	274.623	268.093	275.517	267.769	272.774	274.563	286.213
65.5	280.643	277.186	280.481	272.324	267.031	276.970	265.272	272.570	275.487	284.682
66.0	278.728	276.778	279.280	270.404	266.370	278.476	262.601	271.154	276.309	282.930
66.5	277.138	275.937	277.750	268.591	265.236	279.136	259.636	268.129	277.012	280.919
67.0	275.265	275.049	276.171	267.241	264.288	278.782	257.644	264.924	277.144	278.404
67.5	273.369	274.101	275.043	266.154	263.699	277.534	256.431	261.659	276.778	276.027
68.0	271.760	273.315	274.041	265.644	262.811	275.547	255.489	259.336	275.907	273.567
68.5	270.374	272.408	273.242	265.470	261.113	273.212	254.264	258.178	275.133	271.166
69.0	269.539	271.082	272.528	265.308	258.676	271.190	252.974	257.512	274.701	269.143
69.5	268.837	269.833	271.664	264.882	256.629	269.251	252.068	256.917	274.203	266.778
70.0	268.099	268.453	271.004	264.210	254.709	267.949	251.402	256.125	273.333	265.008
70.5	267.103	267.223	270.698	263.321	252.836	266.694	250.801	255.435	272.006	263.765
71.0	265.674	266.436	270.338	262.727	251.660	265.866	250.057	254.475	270.884	262.991
71.5	264.114	265.746	269.599	261.827	251.246	265.608	249.529	252.956	270.049	262.499
72.0	262.277	265.188	268.453	261.089	251.240	265.542	249.481	251.528	269.179	262.301
72.5	260.392	264.366	267.541	259.762	251.131	265.992	249.907	250.429	268.723	262.385
73.0	258.580	263.525	266.940	258.202	250.333	266.808	249.985	249.649	268.339	262.517
73.5	256.623	262.637	266.094	256.653	249.277	267.433	249.229	248.701	267.949	262.583
74.0	255.021	261.995	264.648	254.805	248.479	267.679	247.458	247.536	267.517	261.857
74.5	253.292	261.299	263.561	252.746	247.764	267.445	245.628	246.498	267.073	260.374
75.0	251.930	260.374	263.045	250.807	246.852	266.940	243.533	244.926	266.484	258.364
75.5	250.735	259.690	262.457	249.577	246.000	265.956	241.630	243.113	265.608	256.137
76.0	249.433	259.108	262.097	248.689	245.526	264.264	239.692	241.156	264.828	254.066
76.5	248.233	258.652	262.181	247.758	243.989	262.127	237.291	239.254	264.264	251.846
77.0	246.756	257.980	261.989	246.984	241.636	259.858	234.638	238.149	263.735	249.415
77.5	245.214	256.767	261.419	245.640	240.208	258.406	231.937	237.249	262.499	247.140
78.0	243.695	255.903	260.789	243.839	239.806	257.457	230.221	236.205	261.089	244.998
78.5	242.003	255.375	260.008	242.207	239.758	256.899	229.141	234.902	260.242	244.049
79.0	240.574	255.003	259.492	240.550	239.764	256.461	228.600	233.270	259.882	243.905
79.5	239.152	254.379	258.754	239.200	239.506	255.789	228.534	231.943	259.402	243.737
80.0	237.759	253.472	257.578	237.777	238.948	255.537	227.784	230.809	259.090	243.143
80.5	236.601	252.470	255.969	236.115	238.419	255.393	227.166	230.047	258.436	242.657
81.0	235.280	251.282	254.607	234.800	238.149	254.955	227.166	228.978	257.289	242.825
81.5	233.822	250.009	253.004	233.288	237.801	254.745	227.352	227.256	256.113	242.597
82.0	232.256	248.257	251.065	231.937	237.213	254.325	227.154	225.839	254.811	241.703
82.5	230.737	246.192	248.875	230.377	235.160	253.628	225.888	224.915	253.454	240.352

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CANDELA TABULATION - (Cont.)

83.0	229.147	244.373	246.684	228.450	232.976	252.182	223.733	224.261	251.264	237.939
83.5	227.118	242.753	244.944	226.536	230.935	249.469	221.050	223.469	249.241	234.986
84.0	225.179	241.216	243.389	224.399	228.978	246.756	217.779	222.010	246.906	232.045
84.5	223.139	239.716	242.135	222.430	227.658	243.695	214.718	220.474	244.229	229.032
85.0	220.936	238.534	241.258	220.432	226.374	241.486	211.993	218.559	242.195	226.596
85.5	219.129	237.717	240.406	218.547	225.509	239.926	209.490	216.543	240.136	224.435
86.0	217.425	236.931	239.800	216.993	224.771	238.930	207.720	214.298	238.509	223.025
86.5	216.206	236.301	239.188	215.840	224.231	237.933	206.237	211.939	237.303	221.920
87.0	214.892	235.797	238.323	214.712	223.799	237.237	205.421	210.229	236.499	221.098
87.5	213.872	235.208	237.483	213.806	223.493	237.075	205.031	208.704	235.935	220.906
88.0	212.893	234.572	236.295	212.761	222.971	237.015	204.785	207.678	235.539	220.744
88.5	211.579	233.714	235.004	211.657	222.148	236.949	204.851	206.934	235.274	220.594
89.0	210.193	232.634	233.570	210.361	221.116	236.709	205.031	206.519	234.830	220.480
89.5	208.158	231.559	231.769	208.596	219.874	236.061	204.707	206.447	234.284	220.282
90.0	205.913	230.119	230.005	206.537	218.091	234.980	203.404	206.225	233.588	219.435
90.5	203.548	228.540	228.084	203.867	216.374	233.264	200.950	205.673	232.364	217.599
91.0	200.938	226.596	226.020	201.322	214.478	230.629	198.237	204.767	230.665	215.402
91.5	198.627	224.477	224.099	198.891	212.539	228.048	195.152	203.200	228.426	213.007
92.0	196.448	222.544	222.070	196.334	210.901	225.227	192.613	201.292	225.683	210.445
92.5	194.113	220.498	220.294	194.215	209.112	222.941	190.248	198.933	223.127	208.206
93.0	192.097	218.643	218.529	192.163	207.540	221.074	188.400	196.688	220.798	206.111
93.5	189.672	217.035	217.143	190.266	205.973	219.357	186.701	194.654	218.523	204.545
94.0	187.559	215.270	215.900	188.526	204.431	217.863	184.889	192.691	216.723	203.146
94.5	185.453	213.830	214.400	186.485	203.068	216.224	183.334	191.124	214.706	201.688
95.0	183.160	212.461	212.989	184.714	201.448	214.652	181.786	189.612	213.007	200.601
95.5	181.029	211.321	211.441	182.584	200.121	213.205	180.471	188.322	211.507	199.377
96.0	178.695	209.730	209.862	180.711	198.789	211.627	179.271	186.953	210.097	198.117
96.5	176.510	208.086	208.440	178.719	197.499	210.157	178.052	185.579	208.740	196.856
97.0	174.685	206.357	206.994	176.912	196.256	208.632	177.020	184.228	207.348	195.416
97.5	172.621	204.425	205.433	175.279	195.044	207.336	175.910	182.542	206.183	194.161
98.0	170.550	202.408	203.632	173.329	193.885	206.105	174.853	181.077	205.019	192.823
98.5	168.167	200.349	202.132	171.738	192.625	204.863	173.785	179.529	203.584	191.479
99.0	166.121	198.471	200.445	169.896	191.275	203.831	172.471	177.902	202.246	190.098
99.5	164.146	196.520	198.699	167.861	189.888	202.750	171.078	176.384	200.692	188.628
100.0	161.697	194.474	197.132	165.977	188.388	201.766	169.362	174.565	199.359	187.361
100.5	159.392	192.943	195.350	163.834	186.965	200.499	167.693	172.999	197.787	185.741
101.0	156.926	191.161	193.801	161.865	185.297	198.909	165.923	171.486	195.806	184.162
101.5	154.789	189.420	192.163	159.825	183.478	197.324	163.942	169.788	194.107	182.584
102.0	152.928	187.865	190.056	157.442	181.852	195.188	162.189	168.311	192.175	180.729
102.5	150.942	186.389	187.901	155.203	180.057	193.219	160.479	166.625	190.404	178.953
103.0	149.165	185.039	185.741	152.754	178.346	191.275	159.128	165.106	188.826	176.822
103.5	147.137	183.220	183.436	150.732	176.720	189.288	157.844	163.486	186.983	174.835
104.0	145.426	181.563	181.179	148.745	174.901	187.649	156.488	161.583	185.141	172.831
104.5	143.529	179.829	178.983	146.680	173.371	185.837	155.125	159.819	183.196	170.688
105.0	141.411	177.932	177.308	144.670	171.570	184.294	153.511	157.922	181.359	169.068
105.5	139.346	176.324	175.436	142.497	169.824	182.584	151.950	156.091	179.691	167.435
106.0	136.843	174.517	173.605	140.631	168.149	180.765	150.366	154.339	178.016	165.766
106.5	134.971	172.789	171.930	138.794	166.253	179.121	148.547	152.394	176.318	164.092
107.0	133.026	171.288	169.902	136.831	164.620	177.254	146.981	150.648	174.343	162.273
107.5	130.835	169.578	168.101	135.157	162.585	175.580	145.300	148.859	172.489	160.545
108.0	129.131	168.065	166.175	133.326	160.683	173.803	143.313	147.227	170.688	158.534
108.5	127.312	166.139	164.440	131.718	158.942	171.720	141.459	145.558	168.557	156.512
109.0	125.668	164.200	162.597	130.091	156.908	169.800	139.268	143.511	166.535	154.459
109.5	123.939	162.627	160.563	128.279	154.999	167.273	137.203	141.633	164.428	151.938
110.0	122.079	160.851	158.618	126.706	152.976	165.118	135.109	139.304	162.555	149.723
110.5	120.710	159.146	156.434	124.876	151.074	163.276	132.768	137.233	160.641	147.473

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CANDELA TABULATION - (Cont.)

111.0	119.252	157.358	154.531	123.267	149.033	161.211	130.823	135.181	158.534	145.570
111.5	117.769	155.731	152.508	121.574	146.752	159.428	128.645	132.990	156.668	143.655
112.0	116.323	154.099	150.204	119.678	144.688	157.640	126.892	131.015	154.591	141.387
112.5	114.744	152.016	148.133	118.111	142.485	155.593	124.918	128.837	152.862	139.268
113.0	113.130	150.204	145.966	116.317	140.540	153.709	123.267	126.844	151.086	137.023
113.5	111.557	148.031	143.884	114.714	138.626	151.668	121.665	125.014	149.051	134.833
114.0	110.039	145.810	141.927	113.016	136.537	149.795	119.894	122.931	147.245	132.624
114.5	108.538	143.673	139.514	111.329	134.719	147.773	118.255	121.112	145.048	130.193
115.0	106.828	141.063	137.323	109.679	132.570	145.894	116.659	119.246	143.013	128.093
115.5	105.309	138.620	134.599	108.058	130.469	143.866	114.894	117.679	140.973	125.770
116.0	103.629	136.075	132.288	106.600	128.345	141.675	113.274	116.113	138.752	123.675
116.5	101.924	133.476	129.791	105.249	126.046	139.712	111.425	114.408	136.753	121.520
117.0	100.406	130.823	127.150	103.623	123.783	137.498	109.667	112.704	134.431	119.006
117.5	98.833	128.105	124.473	102.182	121.118	135.277	107.884	110.681	132.264	116.677
118.0	97.189	125.680	121.851	100.376	118.958	133.134	105.988	108.832	130.067	114.192
118.5	95.370	122.709	118.898	98.809	116.761	130.589	104.217	107.008	127.678	111.971
119.0	93.864	120.302	116.257	97.249	114.444	128.303	102.248	104.955	125.566	109.889
119.5	92.159	117.733	113.316	95.514	112.260	125.764	100.460	103.101	123.153	107.716
120.0	90.509	114.438	110.771	93.900	109.745	123.573	98.731	101.042	120.722	105.838
120.5	88.888	111.641	108.274	92.513	107.530	121.352	96.901	99.265	117.961	103.611
121.0	87.190	108.634	105.507	91.139	105.285	118.784	95.232	97.531	114.816	101.468
121.5	85.545	105.970	103.047	89.854	102.765	116.359	93.402	95.592	112.103	99.187
122.0	83.859	103.347	100.232	88.540	100.598	113.514	91.643	94.008	109.199	96.475
122.5	82.070	100.484	97.687	87.340	98.215	110.861	89.860	92.267	106.738	93.948
123.0	80.287	97.873	95.052	85.929	95.898	108.004	87.772	90.551	104.385	91.031
123.5	78.613	94.920	91.883	84.285	93.210	105.009	85.845	88.852	101.834	88.396
124.0	76.854	91.295	88.702	82.736	90.251	102.116	83.618	87.034	99.439	85.965
124.5	75.168	87.910	84.753	80.876	87.808	99.349	81.584	85.281	96.174	83.210
125.0	73.091	84.693	80.467	79.303	85.449	96.324	79.471	83.030	92.543	80.696
125.5	71.189	80.882	76.062	77.731	82.772	93.546	77.004	80.894	88.840	78.031
126.0	69.214	77.292	71.519	76.062	79.819	89.668	74.958	78.955	84.921	75.492
126.5	66.165	72.833	67.677	74.604	75.030	85.617	72.929	76.908	81.476	72.095
127.0	63.254	69.418	63.560	73.055	70.720	81.170	71.315	75.114	77.479	66.945
127.5	60.373	65.037	59.377	71.363	66.489	76.992	69.604	73.373	73.409	62.750
128.0	57.768	60.793	55.055	69.064	62.978	73.031	66.441	71.675	69.082	59.083
128.5	54.779	56.622	50.632	66.219	59.779	68.080	62.576	68.596	64.076	56.118
129.0	51.046	52.133	47.109	63.218	55.674	63.632	57.870	63.782	59.893	52.042
129.5	48.015	48.381	43.610	59.383	52.030	59.725	54.245	59.515	55.199	47.631
130.0	45.020	43.916	39.300	56.328	48.765	55.530	51.490	55.884	50.488	44.546
130.5	41.623	39.967	35.837	53.549	45.458	51.712	48.129	53.261	45.464	41.425
131.0	37.608	36.576	33.136	50.224	42.073	47.145	44.252	50.098	41.581	38.004
131.5	34.739	33.371	30.436	47.445	38.022	43.436	40.357	46.209	38.670	34.553
132.0	32.824	30.346	27.057	43.682	34.823	40.279	37.890	42.998	34.697	32.326
132.5	27.915	26.630	23.780	40.267	32.914	36.756	35.813	39.841	30.928	29.265
133.0	24.926	23.041	21.481	37.770	28.395	33.545	33.311	37.194	27.477	25.394
133.5	22.609	22.015	19.116	34.625	25.190	29.979	27.981	33.797	23.257	22.285
134.0	19.836	19.716	16.655	30.826	22.765	26.943	25.022	29.691	22.453	20.136
134.5	16.103	17.345	14.441	26.786	21.055	24.800	23.353	26.336	19.554	17.628
135.0	14.357	15.011	12.190	22.447	18.678	22.189	20.815	22.903	16.583	15.203
135.5	13.126	13.270	10.503	22.525	15.671	19.416	17.327	21.409	13.846	13.150
136.0	10.773	11.584	8.775	19.104	13.666	16.817	14.387	18.234	12.016	11.350
136.5	9.873	9.687	7.244	16.949	11.674	14.711	11.596	14.963	10.491	9.129
137.0	8.127	8.013	6.278	15.359	9.717	12.292	10.635	12.406	8.853	7.202
137.5	6.446	6.464	4.754	13.168	8.175	10.539	9.249	10.623	7.106	5.726
138.0	5.150	4.820	3.313	11.752	6.428	8.871	6.962	9.351	5.780	4.417
138.5	3.565	3.673	2.551	10.101	5.012	6.830	6.164	7.796	4.615	3.301

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CANDELA TABULATION - (Cont.)

139.0	2.875	2.671	1.789	8.121	3.493	5.702	4.363	6.512	3.733	2.461
139.5	1.434	1.819	1.488	6.872	2.533	4.183	3.475	5.198	2.827	1.554
140.0	1.194	1.645	1.332	5.180	1.458	3.007	2.623	4.159	2.443	1.260
140.5	1.098	1.530	1.242	3.943	1.248	2.347	1.446	2.941	2.185	1.110
141.0	1.008	1.386	1.110	1.879	1.188	2.065	1.314	2.095	2.023	1.032
141.5	0.900	1.308	1.032	1.699	1.128	1.915	1.218	1.885	1.813	0.918
142.0	0.834	1.200	0.942	1.578	1.074	1.777	1.086	1.681	1.645	0.822
142.5	0.780	1.116	0.840	1.464	0.990	1.657	1.032	1.500	1.566	0.780
143.0	0.708	1.062	0.798	1.326	0.918	1.578	0.936	1.356	1.428	0.726
143.5	0.636	0.990	0.714	1.218	0.798	1.470	0.900	1.254	1.254	0.690
144.0	0.630	0.942	0.672	1.104	0.702	1.374	0.804	1.182	1.152	0.648
144.5	0.540	0.876	0.564	1.032	0.678	1.320	0.750	1.098	1.080	0.606
145.0	0.534	0.798	0.516	0.948	0.624	1.224	0.702	1.050	1.026	0.594
145.5	0.486	0.744	0.432	0.930	0.558	1.062	0.642	0.990	0.906	0.552
146.0	0.486	0.720	0.420	0.882	0.516	0.978	0.600	0.942	0.876	0.528
146.5	0.390	0.684	0.438	0.834	0.522	0.936	0.534	0.936	0.852	0.480
147.0	0.348	0.612	0.342	0.774	0.468	0.852	0.510	0.834	0.810	0.456
147.5	0.282	0.612	0.348	0.696	0.450	0.780	0.498	0.792	0.774	0.414
148.0	0.252	0.570	0.354	0.654	0.390	0.738	0.456	0.786	0.696	0.396
148.5	0.252	0.540	0.276	0.594	0.378	0.714	0.444	0.750	0.702	0.348
149.0	0.240	0.522	0.270	0.558	0.324	0.672	0.378	0.678	0.660	0.348
149.5	0.222	0.468	0.246	0.504	0.318	0.624	0.354	0.672	0.648	0.312
150.0	0.192	0.432	0.234	0.510	0.288	0.582	0.306	0.588	0.588	0.276
150.5	0.204	0.438	0.240	0.468	0.294	0.576	0.276	0.552	0.540	0.258
151.0	0.168	0.414	0.210	0.450	0.252	0.516	0.270	0.498	0.528	0.240
151.5	0.162	0.396	0.198	0.414	0.252	0.504	0.240	0.462	0.504	0.228
152.0	0.162	0.348	0.174	0.396	0.198	0.474	0.216	0.420	0.450	0.180
152.5	0.162	0.336	0.168	0.384	0.180	0.450	0.210	0.426	0.420	0.174
153.0	0.138	0.300	0.150	0.336	0.174	0.432	0.180	0.402	0.408	0.168
153.5	0.156	0.306	0.168	0.354	0.156	0.396	0.162	0.354	0.396	0.186
154.0	0.144	0.282	0.156	0.324	0.174	0.342	0.186	0.348	0.348	0.138
154.5	0.144	0.300	0.126	0.318	0.150	0.366	0.162	0.342	0.336	0.156
155.0	0.114	0.252	0.144	0.276	0.144	0.336	0.156	0.300	0.288	0.138
155.5	0.126	0.282	0.132	0.312	0.144	0.312	0.096	0.324	0.282	0.138
156.0	0.138	0.240	0.096	0.252	0.114	0.276	0.156	0.294	0.276	0.126
156.5	0.144	0.240	0.114	0.270	0.120	0.264	0.102	0.306	0.270	0.120
157.0	0.144	0.234	0.102	0.282	0.132	0.276	0.120	0.270	0.252	0.126
157.5	0.126	0.228	0.120	0.270	0.114	0.282	0.144	0.270	0.252	0.126
158.0	0.114	0.222	0.120	0.252	0.114	0.270	0.126	0.252	0.246	0.126
158.5	0.120	0.192	0.096	0.258	0.132	0.252	0.084	0.234	0.240	0.114
159.0	0.132	0.210	0.114	0.222	0.132	0.258	0.096	0.228	0.222	0.126
159.5	0.132	0.216	0.114	0.240	0.144	0.276	0.132	0.246	0.234	0.114
160.0	0.132	0.174	0.120	0.240	0.078	0.234	0.126	0.222	0.216	0.102
160.5	0.126	0.216	0.102	0.204	0.126	0.234	0.120	0.228	0.222	0.126
161.0	0.156	0.216	0.102	0.234	0.126	0.234	0.114	0.222	0.222	0.114
161.5	0.132	0.210	0.102	0.216	0.096	0.216	0.114	0.240	0.216	0.090
162.0	0.126	0.204	0.144	0.234	0.114	0.204	0.114	0.210	0.216	0.120
162.5	0.102	0.216	0.072	0.192	0.114	0.222	0.114	0.204	0.222	0.102
163.0	0.114	0.180	0.114	0.204	0.102	0.210	0.120	0.216	0.216	0.102
163.5	0.120	0.186	0.102	0.204	0.078	0.204	0.096	0.204	0.174	0.078
164.0	0.120	0.210	0.114	0.186	0.120	0.168	0.120	0.186	0.198	0.084
164.5	0.114	0.198	0.078	0.192	0.114	0.192	0.096	0.198	0.186	0.102
165.0	0.120	0.204	0.132	0.204	0.114	0.180	0.102	0.192	0.216	0.102
165.5	0.138	0.180	0.096	0.210	0.102	0.210	0.084	0.192	0.210	0.090
166.0	0.114	0.174	0.114	0.180	0.090	0.198	0.096	0.198	0.180	0.090
166.5	0.138	0.180	0.084	0.168	0.072	0.210	0.090	0.192	0.198	0.126

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CANDELA TABULATION - (Cont.)

167.0	0.084	0.174	0.090	0.168	0.090	0.186	0.126	0.198	0.186	0.090
167.5	0.138	0.168	0.102	0.198	0.120	0.186	0.102	0.192	0.180	0.084
168.0	0.090	0.150	0.060	0.186	0.096	0.174	0.084	0.198	0.204	0.096
168.5	0.096	0.156	0.096	0.174	0.060	0.174	0.084	0.174	0.174	0.078
169.0	0.102	0.156	0.114	0.174	0.114	0.168	0.084	0.174	0.192	0.090
169.5	0.120	0.156	0.102	0.162	0.084	0.180	0.102	0.144	0.168	0.084
170.0	0.114	0.150	0.078	0.150	0.096	0.174	0.114	0.144	0.144	0.102
170.5	0.090	0.156	0.084	0.138	0.072	0.168	0.090	0.150	0.126	0.096
171.0	0.096	0.156	0.090	0.138	0.054	0.156	0.072	0.120	0.156	0.072
171.5	0.096	0.120	0.090	0.162	0.096	0.150	0.120	0.144	0.120	0.114
172.0	0.102	0.132	0.084	0.150	0.066	0.162	0.072	0.150	0.138	0.084
172.5	0.114	0.132	0.084	0.156	0.090	0.150	0.096	0.132	0.162	0.072
173.0	0.126	0.132	0.078	0.084	0.084	0.138	0.066	0.096	0.114	0.072
173.5	0.096	0.126	0.090	0.132	0.096	0.144	0.102	0.126	0.168	0.090
174.0	0.090	0.120	0.060	0.132	0.060	0.126	0.066	0.120	0.114	0.078
174.5	0.084	0.102	0.072	0.120	0.090	0.126	0.060	0.132	0.126	0.114
175.0	0.114	0.096	0.078	0.138	0.060	0.126	0.078	0.114	0.114	0.084
175.5	0.078	0.132	0.072	0.120	0.078	0.120	0.090	0.144	0.114	0.072
176.0	0.096	0.102	0.078	0.114	0.084	0.132	0.072	0.126	0.090	0.078
176.5	0.084	0.120	0.060	0.114	0.084	0.096	0.078	0.132	0.114	0.054
177.0	0.072	0.102	0.072	0.090	0.078	0.126	0.066	0.096	0.090	0.054
177.5	0.072	0.090	0.054	0.126	0.066	0.102	0.072	0.102	0.096	0.060
178.0	0.090	0.096	0.060	0.114	0.054	0.102	0.078	0.126	0.102	0.078
178.5	0.102	0.090	0.066	0.090	0.084	0.084	0.054	0.126	0.084	0.060
179.0	0.114	0.114	0.084	0.096	0.072	0.102	0.072	0.090	0.114	0.066
179.5	0.090	0.090	0.060	0.090	0.078	0.090	0.078	0.114	0.084	0.060
180.0	0.096	0.072	0.078	0.090	0.060	0.096	0.084	0.114	0.090	0.054

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	239.302	239.302	239.302	239.302	239.302	239.302	239.302
0.5	237.051	239.230	237.789	237.735	240.154	238.509	240.538
1.0	236.937	241.709	236.199	238.696	241.654	236.739	235.298
1.5	240.856	237.531	240.538	242.753	241.871	238.065	233.150
2.0	237.273	232.694	243.371	247.002	242.729	237.837	232.111
2.5	231.691	236.115	243.689	249.775	246.228	239.482	233.906
3.0	234.578	241.889	240.526	251.780	250.669	241.006	237.861
3.5	237.933	243.581	239.944	256.053	254.631	240.238	240.904
4.0	234.584	239.170	241.378	258.556	255.657	241.751	240.904
4.5	229.981	237.585	241.709	256.845	255.909	241.414	240.802
5.0	230.551	238.281	246.276	252.632	252.476	238.966	239.758
5.5	235.545	240.904	248.467	248.017	245.646	237.495	239.308
6.0	238.852	242.597	246.276	242.465	239.542	234.446	238.287
6.5	235.383	237.753	243.545	238.828	239.008	232.442	235.845
7.0	232.298	232.964	238.305	235.785	238.209	230.425	236.331
7.5	231.157	231.115	236.841	232.598	235.749	227.280	237.009
8.0	229.753	230.467	239.398	232.322	234.026	225.197	235.719
8.5	232.898	230.467	242.375	232.081	235.100	223.109	236.187
9.0	237.285	231.055	244.631	230.653	236.775	222.100	234.866
9.5	235.334	230.173	242.999	229.687	235.226	218.037	228.912
10.0	229.477	225.593	237.693	227.568	229.645	213.296	221.872
10.5	224.945	220.282	229.333	227.346	223.955	211.267	219.141
11.0	222.448	220.264	222.767	228.786	219.856	208.704	219.459
11.5	223.847	221.470	220.384	228.762	216.855	204.599	215.438
12.0	227.664	221.782	221.320	226.560	215.114	202.198	213.320

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CANDELA TABULATION - (Cont.)

12.5	231.007	221.500	222.785	221.668	212.959	206.219	212.797
13.0	230.641	222.340	224.099	216.230	211.567	213.145	210.871
13.5	227.046	224.399	224.285	213.500	212.827	215.180	207.558
14.0	220.132	225.797	223.787	211.423	214.250	210.445	205.823
14.5	215.054	225.155	221.920	208.824	213.626	204.101	202.570
15.0	213.644	222.869	219.628	206.777	211.555	201.748	199.545
15.5	212.911	220.114	215.516	203.963	209.454	202.498	198.975
16.0	211.387	217.029	212.863	200.962	209.028	203.849	197.511
16.5	210.385	215.378	210.217	197.661	209.946	202.792	194.402
17.0	211.147	215.336	207.426	196.394	208.854	199.011	189.828
17.5	212.905	213.740	204.395	193.747	206.393	195.896	186.317
18.0	211.357	211.951	201.544	190.602	203.272	193.237	185.087
18.5	204.725	210.427	198.705	187.487	200.932	196.964	184.907
19.0	195.986	208.002	196.742	185.915	199.599	204.173	186.545
19.5	190.428	203.440	195.038	186.323	198.249	202.354	191.533
20.0	186.905	196.778	193.561	189.228	196.946	194.125	192.187
20.5	184.937	189.402	191.707	188.412	188.262	190.566	183.754
21.0	184.859	185.903	189.912	180.663	187.181	187.145	177.752
21.5	187.799	187.565	189.816	178.226	187.733	185.813	180.813
22.0	191.647	189.324	187.829	181.071	186.683	185.801	187.511
22.5	191.989	190.572	186.599	185.759	188.640	187.283	188.922
23.0	186.875	192.733	184.480	183.040	191.503	190.218	183.148
23.5	182.020	198.087	186.215	177.770	189.012	192.097	178.394
24.0	183.604	199.731	186.293	177.818	185.831	192.559	180.243
24.5	186.533	198.723	185.591	182.650	188.388	193.255	184.054
25.0	185.525	198.225	184.246	190.122	193.141	192.751	187.079
25.5	180.957	199.161	182.974	199.203	196.016	193.783	188.166
26.0	174.901	202.324	185.867	204.251	195.548	196.718	188.934
26.5	173.953	204.845	189.792	212.257	195.896	199.821	194.780
27.0	177.920	203.837	193.621	225.960	197.919	203.320	206.321
27.5	184.624	204.833	200.079	246.384	204.251	210.445	224.261
28.0	190.494	208.152	210.739	267.931	215.306	218.631	245.370
28.5	196.748	213.440	219.495	273.537	226.002	229.219	262.859
29.0	203.963	220.522	229.747	266.064	234.110	240.754	266.910
29.5	212.773	229.014	244.649	250.915	242.675	254.337	262.769
30.0	224.981	237.237	256.803	236.871	247.632	259.102	246.612
30.5	234.830	247.446	263.117	224.789	252.728	265.068	233.774
31.0	244.505	255.585	259.402	216.152	263.687	264.870	234.566
31.5	253.976	258.652	252.254	225.173	277.066	265.266	242.039
32.0	259.444	264.672	246.072	241.222	285.390	265.590	252.110
32.5	254.264	268.801	241.492	252.224	285.456	267.031	271.226
33.0	240.226	274.179	241.384	288.595	284.058	272.210	281.693
33.5	225.485	278.176	249.469	296.128	279.923	284.010	271.592
34.0	219.652	286.429	261.335	283.350	275.319	293.445	254.264
34.5	224.903	293.769	272.150	269.593	272.636	300.515	243.419
35.0	239.308	301.175	277.888	264.018	278.764	306.811	243.887
35.5	260.164	309.170	283.560	264.612	288.799	309.494	248.203
36.0	273.435	312.177	291.656	268.081	300.695	309.428	256.161
36.5	288.877	314.602	293.679	275.031	305.833	304.710	264.882
37.0	300.977	312.903	289.814	279.617	310.142	303.858	273.140
37.5	301.589	311.325	283.560	280.859	309.032	312.051	282.077
38.0	290.906	315.394	281.393	282.431	306.865	324.631	291.314
38.5	276.423	317.158	284.190	288.463	306.379	331.185	295.558
39.0	262.517	315.328	292.299	294.297	306.781	327.386	292.166
39.5	253.544	317.422	298.258	296.650	307.147	322.800	285.012
40.0	251.017	321.552	298.775	294.423	309.458	321.288	280.253

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40.5	257.259	319.979	298.294	289.640	311.319	317.380	278.902
41.0	267.511	316.900	306.157	289.706	311.967	313.875	282.509
41.5	279.142	315.982	315.586	292.395	314.734	309.704	287.575
42.0	287.137	314.277	316.660	298.426	318.071	305.737	291.302
42.5	293.871	313.101	313.215	307.525	321.684	305.749	292.251
43.0	299.111	311.132	311.913	316.306	319.979	307.711	292.533
43.5	304.140	311.853	314.488	320.111	316.306	309.914	294.195
44.0	308.420	315.454	317.086	321.810	314.734	311.847	298.066
44.5	308.792	319.583	318.371	322.338	315.256	314.295	303.702
45.0	306.403	323.845	321.486	323.712	316.306	316.366	308.186
45.5	305.203	328.958	322.926	323.514	319.649	317.434	311.174
46.0	306.607	331.317	325.615	320.958	324.433	317.446	313.605
46.5	309.914	331.713	326.335	317.032	326.857	315.676	315.118
47.0	311.703	330.987	323.977	315.130	326.990	312.741	316.120
47.5	309.698	329.216	320.766	313.821	327.056	310.664	314.878
48.0	305.233	324.565	318.209	312.177	326.401	309.992	311.054
48.5	300.857	321.942	316.180	311.655	322.464	308.864	306.883
49.0	299.741	315.730	314.998	313.029	317.819	306.817	304.885
49.5	301.691	312.615	314.217	315.592	314.734	305.203	303.654
50.0	303.618	311.048	312.969	319.001	311.655	302.778	302.772
50.5	304.488	309.470	312.117	320.435	308.642	301.031	302.058
51.0	306.013	307.621	311.523	319.457	307.009	299.615	302.850
51.5	308.996	305.005	311.199	317.951	306.217	299.309	304.794
52.0	313.053	303.654	310.544	317.819	305.629	299.237	307.231
52.5	316.762	304.308	310.868	319.457	305.959	298.384	307.873
53.0	317.140	305.635	311.853	320.958	307.009	297.580	306.973
53.5	315.508	306.913	311.919	321.426	307.465	297.448	305.443
54.0	314.289	307.429	311.793	316.498	307.861	297.652	304.302
54.5	313.137	308.198	312.447	312.837	307.921	297.646	303.624
55.0	311.937	309.278	312.837	308.108	308.444	297.004	303.072
55.5	310.652	309.350	312.249	303.924	308.714	296.848	301.499
56.0	309.152	308.990	310.280	299.885	308.642	296.872	298.901
56.5	307.867	307.345	307.591	297.472	308.246	296.518	296.758
57.0	305.689	305.623	303.468	295.786	306.937	295.672	294.963
57.5	302.106	303.798	299.537	294.141	304.314	294.675	293.937
58.0	298.270	300.917	295.804	293.385	301.109	293.571	293.133
58.5	294.687	298.474	292.917	293.733	297.700	291.896	292.581
59.0	292.106	296.950	291.800	294.639	294.879	289.682	292.010
59.5	290.072	295.696	291.404	294.849	292.719	287.275	291.266
60.0	288.307	293.673	291.080	294.423	290.822	284.514	291.098
60.5	287.851	291.314	291.020	293.931	289.508	282.221	291.530
61.0	287.995	289.039	290.558	293.487	288.595	280.031	291.938
61.5	288.193	286.903	290.294	293.091	287.941	277.990	291.800
62.0	288.703	286.063	289.838	292.965	287.473	277.186	291.146
62.5	289.436	285.360	289.316	292.509	287.473	277.120	290.198
63.0	289.352	285.576	288.853	291.788	288.001	278.032	288.835
63.5	288.415	286.357	289.051	290.624	288.265	279.322	287.179
64.0	287.599	288.295	289.118	288.379	288.595	280.901	285.630
64.5	286.549	290.270	288.523	286.009	289.051	282.497	283.950
65.0	284.778	292.227	287.545	283.602	289.250	283.842	282.419
65.5	283.050	293.631	285.774	280.721	289.118	284.298	280.643
66.0	281.147	294.375	284.010	278.392	288.595	284.100	278.728
66.5	279.094	294.213	282.041	276.327	287.281	283.074	277.138
67.0	276.832	293.385	279.220	275.025	285.246	281.213	275.265
67.5	274.395	292.136	276.664	273.939	282.762	278.452	273.369
68.0	272.618	289.928	274.503	273.236	280.271	275.433	271.760

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CANDELA TABULATION - (Cont.)

68.5	270.980	287.551	272.672	272.894	277.456	272.276	270.374
69.0	270.170	284.658	270.902	272.390	274.899	268.681	269.539
69.5	269.623	281.759	269.065	271.550	272.276	265.572	268.837
70.0	268.681	278.764	267.625	269.839	269.395	263.159	268.099
70.5	267.307	276.436	266.898	267.847	267.553	262.289	267.103
71.0	265.440	274.629	266.574	265.770	266.706	262.679	265.674
71.5	263.285	273.639	266.838	263.147	267.367	263.946	264.114
72.0	261.491	274.011	267.097	260.771	268.603	264.906	262.277
72.5	259.828	275.559	267.553	258.532	269.983	266.064	260.392
73.0	258.568	276.616	267.691	256.671	270.902	267.337	258.580
73.5	257.427	276.904	268.081	254.991	272.276	268.201	256.623
74.0	255.651	277.738	267.949	253.400	273.387	268.477	255.021
74.5	253.814	278.578	266.376	252.146	273.651	267.787	253.292
75.0	252.182	278.848	264.804	250.999	273.062	266.514	251.930
75.5	251.089	278.380	263.627	250.303	272.210	264.768	250.735
76.0	250.117	277.498	261.575	249.655	271.028	262.589	249.433
76.5	249.055	275.739	260.140	248.653	269.257	259.138	248.233
77.0	247.662	273.375	258.214	247.464	266.574	256.281	246.756
77.5	246.510	270.380	257.031	245.802	262.901	254.180	245.214
78.0	245.904	267.451	255.825	243.407	259.540	252.938	243.695
78.5	245.016	264.900	254.799	241.270	258.166	252.116	242.003
79.0	243.389	262.919	254.385	239.254	256.833	251.300	240.574
79.5	241.318	261.101	254.162	237.765	255.537	250.729	239.152
80.0	238.696	259.198	252.878	236.529	254.667	250.519	237.759
80.5	236.415	257.674	251.798	235.088	254.463	250.459	236.601
81.0	234.518	257.355	252.254	233.786	254.709	250.171	235.280
81.5	232.778	257.740	252.134	232.195	254.565	249.487	233.822
82.0	231.535	257.752	250.447	230.683	253.682	248.365	232.256
82.5	230.317	257.151	249.313	229.291	253.112	246.498	230.737
83.0	229.177	256.113	248.179	227.580	252.350	244.523	229.147
83.5	227.976	254.180	246.282	225.701	250.267	242.075	227.118
84.0	226.512	251.426	243.515	223.397	247.494	239.464	225.179
84.5	224.975	248.899	240.508	221.440	244.427	237.657	223.139
85.0	222.863	246.636	238.365	219.658	241.624	235.959	220.936
85.5	220.684	244.848	236.895	218.187	239.422	234.452	219.129
86.0	218.475	243.173	235.785	216.621	237.201	233.114	217.425
86.5	215.948	241.570	234.632	215.096	235.779	232.490	216.206
87.0	213.872	240.568	233.366	213.716	234.758	232.232	214.892
87.5	211.963	239.908	232.640	212.515	234.164	231.703	213.872
88.0	210.511	239.380	232.159	211.711	234.080	231.487	212.893
88.5	209.298	239.128	231.847	211.057	234.182	231.361	211.579
89.0	208.392	239.170	232.183	209.838	234.398	230.821	210.193
89.5	207.828	238.696	232.694	208.062	234.266	229.495	208.158
90.0	207.186	236.991	232.141	205.559	233.300	227.394	205.913
90.5	206.051	234.542	230.443	202.492	231.493	225.209	203.548
91.0	204.089	231.739	227.424	199.731	228.696	222.965	200.938
91.5	200.998	228.786	224.495	196.892	225.623	220.504	198.627
92.0	197.961	226.284	221.068	194.642	222.532	218.313	196.448
92.5	194.744	224.441	218.475	192.397	219.375	216.056	194.113
93.0	192.139	222.580	216.465	190.116	216.753	214.274	192.097
93.5	189.930	220.870	214.544	187.937	214.076	212.479	189.672
94.0	187.655	218.919	213.013	185.363	212.053	210.799	187.559
94.5	185.645	217.047	211.567	182.890	210.277	209.160	185.453
95.0	183.262	215.138	209.880	180.159	208.590	207.276	183.160
95.5	181.119	213.500	208.428	177.902	207.096	205.511	181.029
96.0	178.995	211.879	206.819	175.622	205.865	203.452	178.695

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CANDELA TABULATION - (Cont.)

96.5	176.744	210.133	205.451	173.137	204.617	201.598	176.510
97.0	174.889	208.800	204.125	171.102	203.566	199.923	174.685
97.5	173.077	207.606	202.708	168.983	202.486	198.291	172.621
98.0	171.594	205.997	201.328	167.225	201.406	197.036	170.550
98.5	170.142	204.485	199.719	165.598	200.217	195.428	168.167
99.0	168.569	202.918	198.075	163.732	198.705	193.891	166.121
99.5	167.177	201.514	196.334	161.883	197.042	192.355	164.146
100.0	165.478	199.815	194.396	159.753	195.086	190.722	161.697
100.5	163.798	197.871	192.733	157.592	193.189	189.024	159.392
101.0	161.949	196.016	190.920	155.353	191.149	187.013	156.926
101.5	159.681	193.735	189.162	152.724	188.982	185.183	154.789
102.0	157.436	191.707	187.313	150.366	187.085	183.490	152.928
102.5	154.921	189.810	185.441	147.821	184.594	181.732	150.942
103.0	152.790	187.805	183.550	145.612	182.680	179.985	149.165
103.5	150.798	185.969	181.161	143.559	181.023	177.878	147.137
104.0	148.637	184.108	179.397	141.291	179.409	175.886	145.426
104.5	146.927	182.560	177.452	139.340	177.914	173.929	143.529
105.0	145.222	180.813	175.952	137.377	176.228	171.816	141.411
105.5	143.752	178.881	174.415	135.715	174.565	169.872	139.346
106.0	142.125	177.140	172.615	134.136	172.825	167.969	136.843
106.5	140.763	175.081	170.874	132.456	170.928	166.289	134.971
107.0	139.358	173.107	169.007	130.925	169.092	164.350	133.026
107.5	137.678	170.844	167.015	128.975	167.003	162.369	130.835
108.0	136.069	168.323	164.938	126.976	164.890	160.821	129.131
108.5	134.287	166.217	162.657	124.960	162.880	159.242	127.312
109.0	132.138	163.984	160.545	122.841	160.695	157.310	125.668
109.5	130.031	161.811	158.372	121.004	158.696	155.263	123.939
110.0	127.732	159.573	156.001	119.036	156.440	153.000	122.079
110.5	125.872	157.718	153.877	117.283	154.489	150.888	120.710
111.0	123.951	155.779	151.482	115.561	152.538	148.325	119.252
111.5	122.313	153.553	149.357	113.820	150.312	145.924	117.769
112.0	120.770	151.524	147.353	112.404	148.157	143.517	116.323
112.5	119.168	149.255	145.204	110.849	145.762	140.787	114.744
113.0	117.781	147.245	143.151	109.559	143.571	138.332	113.130
113.5	115.621	145.078	140.859	108.316	141.291	135.631	111.557
114.0	113.556	142.677	138.884	106.930	138.986	133.410	110.039
114.5	111.671	140.378	136.987	105.561	136.717	130.889	108.538
115.0	109.817	137.696	134.731	103.941	134.022	128.075	106.828
115.5	108.250	135.277	132.624	102.458	131.442	125.656	105.309
116.0	106.576	132.696	130.091	100.976	128.783	122.979	103.629
116.5	105.255	129.869	127.504	99.223	125.920	120.458	101.924
117.0	103.869	127.300	124.876	97.633	123.495	118.057	100.406
117.5	102.170	124.443	122.031	95.880	120.872	115.284	98.833
118.0	100.628	121.821	119.546	94.368	118.435	112.872	97.189
118.5	98.923	119.126	116.971	92.891	116.029	110.267	95.370
119.0	96.919	116.215	114.744	91.283	113.562	107.914	93.864
119.5	95.004	113.652	112.410	89.812	111.305	105.369	92.159
120.0	92.987	110.783	109.889	88.270	108.592	102.566	90.509
120.5	91.391	108.136	107.620	86.926	106.006	99.968	88.888
121.0	89.674	105.093	104.979	85.671	103.395	97.009	87.190
121.5	88.030	100.778	102.626	84.213	100.442	94.104	85.545
122.0	86.577	97.363	100.232	82.826	97.579	91.133	83.859
122.5	83.516	93.894	97.369	81.038	94.236	87.850	82.070
123.0	79.789	89.860	94.566	79.195	90.953	84.987	80.287
123.5	76.350	86.055	91.187	77.280	87.508	82.022	78.613
124.0	72.137	81.602	88.192	75.054	84.459	78.739	76.854

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CANDELA TABULATION - (Cont.)

124.5	66.609	76.914	85.203	73.127	81.452	75.114	75.168
125.0	61.814	72.053	81.914	71.038	77.611	71.117	73.091
125.5	56.160	67.341	78.907	69.280	73.961	67.503	71.189
126.0	49.984	61.483	75.054	67.629	70.480	62.966	69.214
126.5	45.248	54.683	71.867	64.532	67.389	58.663	66.165
127.0	39.493	49.360	68.974	61.543	63.878	54.473	63.254
127.5	35.351	42.854	65.289	58.957	59.341	50.278	60.373
128.0	33.173	36.089	61.345	56.976	55.283	46.713	57.768
128.5	27.801	32.926	56.658	54.449	51.238	42.103	54.779
129.0	25.640	24.488	52.661	50.998	47.919	38.376	51.046
129.5	21.361	19.986	48.982	48.123	44.300	35.033	48.015
130.0	20.791	14.945	45.014	45.320	39.613	32.878	45.020
130.5	18.162	11.452	41.113	41.905	35.915	28.815	41.623
131.0	15.857	9.147	37.158	38.352	32.698	24.764	37.608
131.5	14.128	8.007	34.301	34.517	29.847	22.243	34.739
132.0	12.604	7.094	31.270	32.632	26.396	19.560	32.824
132.5	12.472	6.170	26.907	27.729	22.003	17.321	27.915
133.0	12.424	5.072	22.801	24.812	20.779	14.945	24.926
133.5	11.890	4.381	21.295	22.315	18.726	12.874	22.609
134.0	11.746	3.859	19.338	19.248	16.697	11.350	19.836
134.5	12.688	3.193	16.763	16.919	14.579	9.657	16.103
135.0	13.054	2.641	14.525	15.575	12.610	8.001	14.357
135.5	12.400	2.389	13.252	12.940	11.025	6.278	13.126
136.0	12.856	2.065	11.404	11.308	9.423	4.988	10.773
136.5	12.658	1.446	9.435	10.425	7.905	3.745	9.873
137.0	11.788	1.242	7.935	7.628	6.518	2.635	8.127
137.5	11.049	1.008	6.290	6.248	5.054	2.317	6.446
138.0	9.243	0.870	4.567	4.615	3.559	1.621	5.150
138.5	7.448	0.852	3.301	3.403	2.779	1.416	3.565
139.0	6.308	0.834	2.419	2.683	1.903	1.326	2.875
139.5	4.519	0.822	1.963	1.332	1.729	1.218	1.434
140.0	3.313	0.792	1.759	1.182	1.591	1.152	1.194
140.5	1.506	0.738	1.645	1.110	1.542	1.026	1.098
141.0	1.440	0.702	1.530	0.972	1.434	0.972	1.008
141.5	1.362	0.690	1.404	0.930	1.290	0.912	0.900
142.0	1.278	0.648	1.350	0.858	1.224	0.828	0.834
142.5	1.182	0.606	1.260	0.762	1.152	0.672	0.780
143.0	1.122	0.534	1.200	0.714	1.074	0.660	0.708
143.5	1.062	0.486	1.146	0.642	0.996	0.594	0.636
144.0	0.948	0.474	1.062	0.600	0.960	0.570	0.630
144.5	0.888	0.414	0.996	0.528	0.924	0.504	0.540
145.0	0.846	0.354	0.954	0.528	0.858	0.486	0.534
145.5	0.786	0.360	0.876	0.480	0.804	0.414	0.486
146.0	0.780	0.390	0.816	0.414	0.750	0.390	0.486
146.5	0.690	0.384	0.792	0.414	0.714	0.348	0.390
147.0	0.654	0.390	0.762	0.384	0.660	0.312	0.348
147.5	0.648	0.318	0.726	0.318	0.630	0.282	0.282
148.0	0.600	0.300	0.684	0.336	0.594	0.264	0.252
148.5	0.558	0.276	0.630	0.258	0.534	0.252	0.252
149.0	0.528	0.252	0.636	0.246	0.534	0.234	0.240
149.5	0.486	0.234	0.618	0.234	0.492	0.216	0.222
150.0	0.468	0.228	0.564	0.204	0.450	0.204	0.192
150.5	0.462	0.186	0.558	0.156	0.432	0.174	0.204
151.0	0.390	0.180	0.486	0.192	0.402	0.180	0.168
151.5	0.402	0.192	0.474	0.186	0.348	0.156	0.162
152.0	0.360	0.192	0.438	0.156	0.336	0.144	0.162

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CANDELA TABULATION - (Cont.)

152.5	0.372	0.174	0.396	0.150	0.324	0.102	0.162
153.0	0.324	0.162	0.360	0.144	0.318	0.138	0.138
153.5	0.312	0.144	0.324	0.144	0.288	0.126	0.156
154.0	0.318	0.150	0.306	0.126	0.282	0.120	0.144
154.5	0.306	0.132	0.342	0.144	0.276	0.102	0.144
155.0	0.294	0.102	0.318	0.132	0.252	0.102	0.114
155.5	0.294	0.120	0.282	0.102	0.240	0.126	0.126
156.0	0.276	0.102	0.282	0.102	0.264	0.090	0.138
156.5	0.252	0.150	0.246	0.114	0.240	0.102	0.144
157.0	0.270	0.120	0.276	0.096	0.216	0.096	0.144
157.5	0.264	0.126	0.270	0.096	0.216	0.102	0.126
158.0	0.252	0.120	0.264	0.150	0.198	0.078	0.114
158.5	0.264	0.126	0.222	0.096	0.216	0.078	0.120
159.0	0.228	0.126	0.240	0.126	0.204	0.096	0.132
159.5	0.216	0.114	0.234	0.102	0.216	0.114	0.132
160.0	0.180	0.138	0.246	0.114	0.222	0.090	0.132
160.5	0.216	0.126	0.210	0.090	0.198	0.090	0.126
161.0	0.216	0.084	0.246	0.114	0.186	0.066	0.156
161.5	0.192	0.114	0.210	0.120	0.198	0.096	0.132
162.0	0.186	0.120	0.234	0.114	0.186	0.090	0.126
162.5	0.204	0.120	0.222	0.114	0.186	0.090	0.102
163.0	0.204	0.132	0.192	0.120	0.186	0.084	0.114
163.5	0.198	0.078	0.222	0.120	0.180	0.102	0.120
164.0	0.216	0.102	0.198	0.114	0.186	0.120	0.120
164.5	0.168	0.084	0.192	0.090	0.186	0.120	0.114
165.0	0.162	0.096	0.180	0.096	0.204	0.090	0.120
165.5	0.174	0.126	0.198	0.084	0.162	0.090	0.138
166.0	0.168	0.084	0.216	0.084	0.186	0.102	0.114
166.5	0.168	0.084	0.168	0.078	0.162	0.072	0.138
167.0	0.186	0.126	0.192	0.096	0.186	0.078	0.084
167.5	0.162	0.090	0.180	0.102	0.138	0.090	0.138
168.0	0.162	0.090	0.162	0.084	0.168	0.066	0.090
168.5	0.174	0.096	0.162	0.090	0.168	0.102	0.096
169.0	0.180	0.102	0.156	0.084	0.168	0.072	0.102
169.5	0.150	0.090	0.162	0.090	0.144	0.084	0.120
170.0	0.144	0.096	0.138	0.084	0.150	0.096	0.114
170.5	0.144	0.096	0.138	0.096	0.138	0.078	0.090
171.0	0.168	0.096	0.150	0.078	0.132	0.054	0.096
171.5	0.132	0.060	0.144	0.078	0.120	0.060	0.096
172.0	0.132	0.084	0.132	0.078	0.156	0.078	0.102
172.5	0.144	0.096	0.126	0.120	0.138	0.066	0.114
173.0	0.120	0.066	0.138	0.078	0.120	0.102	0.126
173.5	0.138	0.090	0.120	0.078	0.138	0.078	0.096
174.0	0.126	0.084	0.156	0.066	0.132	0.060	0.090
174.5	0.144	0.084	0.126	0.096	0.120	0.096	0.084
175.0	0.102	0.084	0.096	0.072	0.138	0.072	0.114
175.5	0.096	0.078	0.144	0.078	0.084	0.066	0.078
176.0	0.096	0.078	0.120	0.078	0.096	0.060	0.096
176.5	0.120	0.090	0.102	0.072	0.096	0.078	0.084
177.0	0.114	0.066	0.090	0.072	0.102	0.084	0.072
177.5	0.114	0.060	0.096	0.054	0.126	0.066	0.072
178.0	0.090	0.054	0.138	0.090	0.078	0.060	0.090
178.5	0.132	0.054	0.078	0.060	0.090	0.066	0.102
179.0	0.126	0.054	0.096	0.078	0.090	0.072	0.114
179.5	0.084	0.048	0.090	0.090	0.090	0.078	0.090
180.0	0.126	0.060	0.090	0.078	0.090	0.072	0.096

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	81.71	3.60	3.60
0-30	172.78	7.70	7.70
0-40	340.06	15.20	15.20
0-60	835.38	37.30	37.30
0-80	1382.55	61.70	61.70
0-90	1636.19	73.00	73.00
10-90	1613.91	72.00	72.00
20-40	258.35	11.50	11.50
20-50	489.01	21.80	21.80
40-70	770.52	34.40	34.40
60-80	547.17	24.40	24.40
70-80	271.96	12.10	12.10
80-90	253.65	11.30	11.30
90-110	394.49	17.60	17.60
90-120	520.27	23.20	23.20
90-130	590.31	26.30	26.30
90-150	605.12	27.00	27.00
90-180	605.29	27.00	27.00
110-180	210.80	9.40	9.40
0-180	2241.48	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	22.28
10-20	59.43
20-30	91.07
30-40	167.28
40-50	230.66
50-60	264.66
60-70	275.20
70-80	271.96
80-90	253.65
90-100	219.24
100-110	175.24
110-120	125.79
120-130	70.04
130-140	14.26
140-150	0.55
150-160	0.11
160-170	0.04
170-180	0.01

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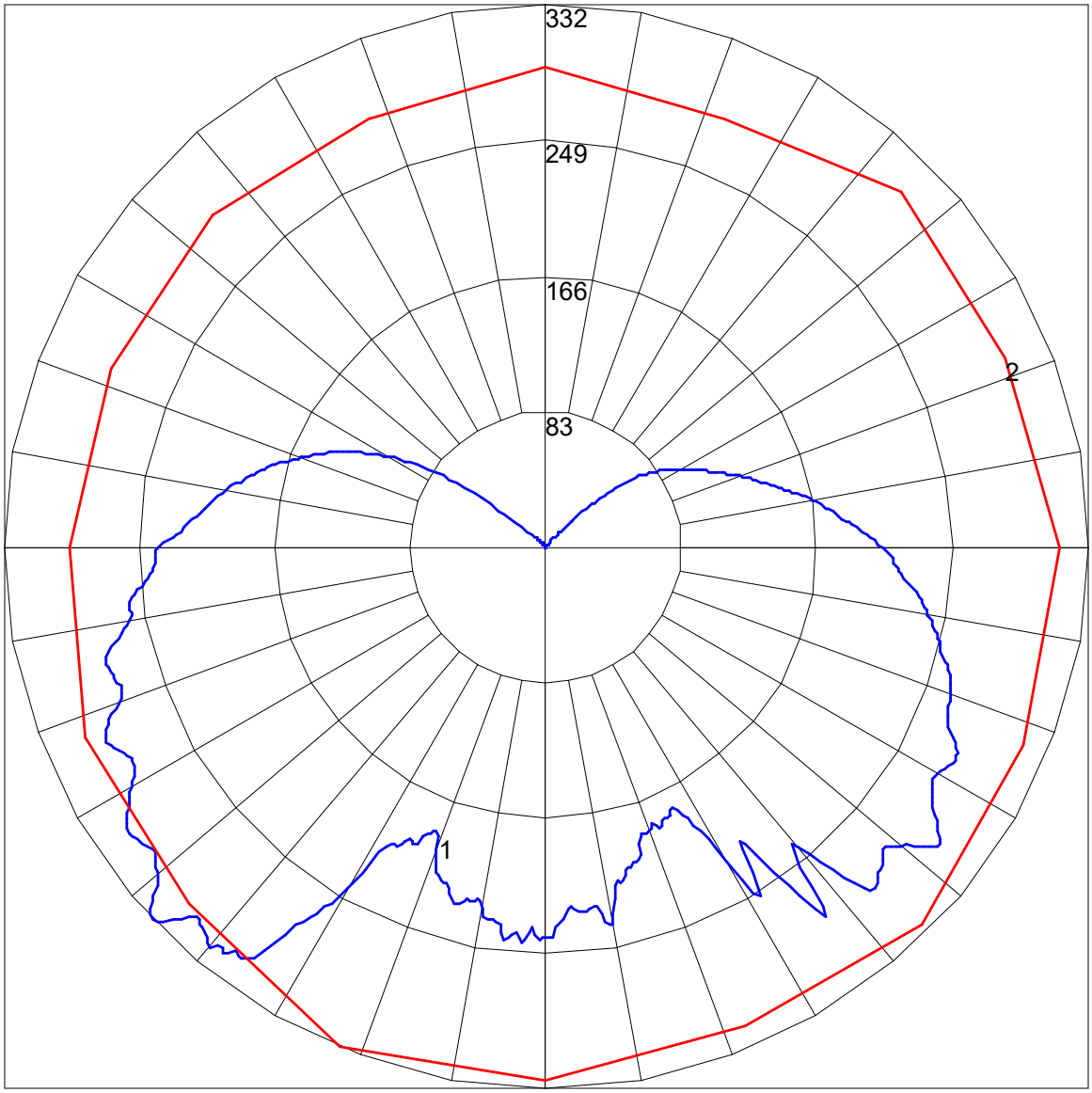
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	97	90	84	78	91	85	80	74	76	71	67	67	64	60	59	56	54	50
2	86	75	67	59	81	71	63	56	63	57	51	56	50	46	49	44	41	37
3	77	64	54	47	72	61	52	44	54	46	40	47	41	36	41	36	32	28
4	70	56	45	38	65	52	43	36	46	39	33	41	34	29	36	30	26	23
5	63	49	39	31	59	46	37	30	41	33	27	36	29	24	31	26	21	18
6	58	43	33	26	54	41	32	25	36	29	23	32	25	20	28	22	18	15
7	53	39	29	23	50	37	28	21	33	25	19	29	22	17	25	20	16	13
8	49	35	26	20	46	33	25	19	29	22	17	26	20	15	23	18	14	11
9	46	32	23	17	43	30	22	16	27	20	15	24	18	13	21	16	12	10
10	43	29	21	15	40	27	20	14	25	18	13	22	16	12	19	14	11	9

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EPL-MJ-15W-LED-XX-PND.IES

POLAR GRAPH



Maximum Candela = 331.713 Located At Horizontal Angle = 247.5, Vertical Angle = 46.5
1 - Vertical Plane Through Horizontal Angles (247.5 - 67.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (46.5) (Through Max. Cd.)