



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LVL22L-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST]
[TESTLAB] LEADING TESTING LABORATORIES
[TESTDATE] 2018-03-18
[ISSUEDATE] 2018-03-18 15:45:43
[LUMCAT] LVL22L-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 32 chip array 4000K
[NEARFIELD]
[LAMPPOSITION] 0,0
[MANUFAC] LAMAR LIGHTING CO., INC.
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2179
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	19.2
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	2347	2396	2444
55	2202	2274	2334
65	1990	2085	2181
75	1615	1771	1896
85	782	1250	1552

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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	804.931	804.931	804.931	804.931	804.931	804.931	804.931	804.931	804.931	804.931
0.5	804.870	804.917	805.012	805.052	805.100	805.052	805.059	805.032	804.965	804.836
1.0	804.701	804.796	804.998	805.079	805.201	805.147	805.120	805.052	804.863	804.695
1.5	804.391	804.600	804.877	805.059	805.201	805.154	805.100	804.958	804.735	804.431
2.0	803.966	804.317	804.674	804.904	805.066	805.079	805.005	804.796	804.492	804.087
2.5	803.453	803.898	804.371	804.708	804.904	804.897	804.769	804.499	804.155	803.621
3.0	802.872	803.405	803.939	804.357	804.607	804.620	804.465	804.155	803.716	803.081
3.5	802.177	802.805	803.480	803.993	804.269	804.263	804.107	803.709	803.149	802.420
4.0	801.367	802.116	802.852	803.426	803.804	803.777	803.628	803.162	802.595	801.738
4.5	800.564	801.353	802.204	802.879	803.284	803.277	802.987	802.481	801.833	800.935
5.0	799.646	800.496	801.428	802.217	802.703	802.616	802.346	801.731	800.962	800.057
5.5	798.566	799.551	800.584	801.441	801.927	801.927	801.596	800.874	800.030	799.045
6.0	797.452	798.532	799.679	800.624	801.131	801.124	800.739	799.983	799.058	797.965
6.5	796.237	797.384	798.653	799.700	800.287	800.253	799.801	798.964	798.012	796.797
7.0	794.954	796.149	797.526	798.701	799.288	799.274	798.815	797.904	796.824	795.555
7.5	793.611	794.867	796.284	797.540	798.228	798.255	797.688	796.709	795.602	794.232
8.0	792.153	793.483	795.015	796.352	797.087	797.087	796.460	795.434	794.259	792.801
8.5	790.648	792.005	793.665	795.002	795.839	795.872	795.170	794.050	792.767	791.309
9.0	789.035	790.459	792.187	793.658	794.475	794.563	793.773	792.619	791.228	789.737
9.5	787.327	788.839	790.655	792.221	793.091	793.186	792.342	791.120	789.689	788.069
10.0	785.579	787.118	789.048	790.634	791.566	791.647	790.823	789.534	788.002	786.294
10.5	783.655	785.295	787.300	788.974	789.905	790.000	789.136	787.806	786.240	784.445
11.0	781.684	783.439	785.504	787.226	788.225	788.373	787.421	786.024	784.451	782.534
11.5	779.632	781.488	783.695	785.369	786.517	786.645	785.639	784.161	782.528	780.543
12.0	777.539	779.490	781.724	783.432	784.654	784.748	783.776	782.183	780.455	778.424
12.5	775.352	777.384	779.652	781.454	782.744	782.818	781.778	780.152	778.410	776.189
13.0	773.145	775.170	777.573	779.382	780.766	780.827	779.780	778.019	776.243	773.935
13.5	770.850	772.936	775.305	777.263	778.673	778.741	777.614	775.845	774.016	771.768
14.0	768.440	770.627	773.017	775.015	776.432	776.513	775.501	773.537	771.701	769.365
14.5	766.017	768.258	770.648	772.706	774.279	774.340	773.132	771.208	769.311	766.881
15.0	763.432	765.815	768.251	770.351	772.011	772.079	770.783	768.832	766.814	764.282
15.5	760.887	763.243	765.734	767.907	769.601	769.608	768.353	766.355	764.249	761.690
16.0	758.194	760.644	763.115	765.383	767.063	767.131	765.970	763.830	761.630	758.984
16.5	755.474	757.985	760.529	762.777	764.714	764.681	763.263	761.252	758.936	756.135
17.0	752.645	755.231	757.816	760.131	762.109	762.136	760.651	758.572	756.203	753.361
17.5	749.723	752.342	754.974	757.411	759.389	759.382	757.897	755.771	753.314	750.519
18.0	746.631	749.426	752.078	754.583	756.608	756.567	755.082	752.895	750.485	747.502
18.5	743.681	746.442	749.230	751.721	753.820	753.759	752.227	749.993	747.387	744.323
19.0	740.529	743.432	746.206	748.811	751.012	750.870	749.264	746.969	744.269	741.265
19.5	737.296	740.252	743.094	745.855	747.920	747.819	746.172	743.877	741.110	738.059
20.0	734.036	736.999	739.955	742.797	744.917	744.761	743.108	740.738	737.984	734.825
20.5	730.789	733.772	736.756	739.638	741.852	741.609	739.922	737.539	734.697	731.538
21.0	727.319	730.397	733.408	736.439	738.632	738.383	736.661	734.157	731.295	728.035
21.5	723.857	726.955	729.992	733.064	735.500	735.122	733.327	730.890	727.880	724.538
22.0	720.333	723.580	726.611	729.675	732.125	731.869	729.938	727.454	724.471	720.995
22.5	716.843	720.016	723.182	726.388	728.777	728.467	726.557	723.971	720.873	717.417
23.0	713.111	716.371	719.543	722.912	725.301	724.903	723.094	720.313	717.316	713.738
23.5	709.445	712.746	715.979	719.314	721.845	721.427	719.456	716.789	713.603	710.033
24.0	705.692	708.980	712.260	715.628	718.247	717.869	715.790	713.151	709.952	706.239
24.5	701.811	705.132	708.534	711.970	714.548	714.184	712.125	709.317	706.050	702.419
25.0	697.889	701.298	704.714	708.197	710.863	710.438	708.365	705.490	702.182	698.436
25.5	694.028	697.437	700.866	704.430	707.177	706.651	704.538	701.663	698.335	694.467
26.0	690.066	693.468	697.005	700.495	703.316	702.824	700.657	697.667	694.413	690.539
26.5	685.996	689.384	692.928	696.566	699.314	698.855	696.695	693.664	690.336	686.462

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27.0	681.811	685.328	688.898	692.570	695.480	694.926	692.651	689.600	686.273	682.223
27.5	677.720	681.143	684.815	688.527	691.457	690.903	688.622	685.517	682.169	678.105
28.0	673.475	676.958	680.650	684.342	687.393	686.826	684.518	681.237	677.909	673.826
28.5	669.141	672.617	676.485	680.184	683.289	682.607	680.339	677.153	673.684	669.438
29.0	664.740	668.432	672.226	675.979	679.118	678.517	676.040	672.827	669.317	665.071
29.5	660.488	663.971	667.940	671.794	674.879	674.258	671.794	668.480	664.862	660.731
30.0	656.046	659.630	663.518	667.400	670.532	669.890	667.487	664.092	660.501	656.309
30.5	651.564	655.088	659.009	662.951	666.259	665.456	663.026	659.563	656.026	651.692
31.0	647.001	650.653	654.541	658.503	661.858	661.156	658.577	655.135	651.443	647.210
31.5	642.371	645.968	650.052	654.001	656.316	656.613	654.035	650.572	646.900	642.546
32.0	637.774	641.439	645.509	649.478	652.901	652.205	649.505	645.908	642.202	637.841
32.5	633.130	636.788	640.784	644.936	648.459	647.602	644.902	641.324	637.524	633.164
33.0	628.364	632.090	636.140	640.373	643.849	643.039	640.292	636.606	632.806	628.520
33.5	623.457	627.271	631.409	635.688	639.232	638.327	635.479	631.793	628.202	623.680
34.0	618.658	622.526	626.697	630.842	634.541	633.602	630.707	626.940	623.214	618.705
34.5	613.778	617.612	621.851	626.137	629.849	628.864	625.975	622.141	618.287	613.710
35.0	608.870	612.765	616.923	621.358	625.124	624.152	621.189	617.267	613.319	608.938
35.5	603.808	607.831	612.097	616.565	620.426	619.292	616.322	612.367	608.445	603.835
36.0	598.806	602.930	607.203	611.705	615.573	614.385	611.172	607.406	603.403	598.840
36.5	593.683	597.740	602.181	606.778	610.592	609.464	606.326	602.323	598.340	593.717
37.0	588.526	592.623	597.024	601.857	605.752	604.517	601.337	597.260	593.237	588.607
37.5	583.382	587.534	592.049	596.876	600.878	599.501	596.234	592.117	587.979	583.403
38.0	578.232	582.397	586.953	591.914	595.958	594.587	591.023	586.913	582.849	578.205
38.5	572.900	577.152	581.796	586.805	590.774	589.572	585.947	581.783	577.658	573.028
39.0	567.641	572.015	576.518	581.634	585.745	584.415	580.777	576.585	572.353	567.682
39.5	562.228	566.636	571.421	576.538	580.757	579.305	575.593	571.340	567.095	562.329
40.0	556.943	561.236	566.136	571.415	575.627	574.229	570.362	565.866	561.654	556.963
40.5	551.482	555.903	560.824	566.298	570.301	569.018	565.151	560.554	556.335	551.630
41.0	545.974	550.517	555.377	560.837	565.097	563.659	559.629	555.188	550.901	546.109
41.5	540.473	545.090	550.179	555.593	559.987	558.461	554.405	549.828	545.447	540.608
42.0	535.120	539.507	544.752	550.402	554.702	553.298	549.079	544.253	539.899	535.194
42.5	529.490	533.993	539.460	545.042	549.335	547.904	543.605	538.745	534.452	529.706
43.0	524.009	528.410	533.952	539.656	543.996	542.484	538.049	533.311	528.856	524.117
43.5	518.157	522.808	528.410	534.121	538.542	537.030	532.595	527.675	523.260	518.461
44.0	512.629	517.178	522.659	528.721	533.142	531.637	527.020	522.119	517.590	512.852
44.5	506.844	511.461	517.462	523.260	527.688	526.088	521.512	516.449	511.873	507.094
45.0	501.336	505.886	511.873	517.786	522.194	520.661	515.963	510.867	506.142	501.316
45.5	495.416	500.195	506.243	512.048	516.584	515.194	510.503	505.163	500.459	495.653
46.0	489.719	494.397	500.506	506.561	511.016	509.618	504.630	499.439	494.795	490.023
46.5	483.901	488.491	494.971	500.857	505.332	503.861	498.987	493.560	488.822	484.238
47.0	478.184	482.733	489.159	495.194	499.433	498.083	493.290	487.782	482.976	478.366
47.5	472.169	476.915	483.509	489.571	493.776	492.561	487.755	482.024	477.185	472.520
48.0	466.398	471.123	477.812	483.685	488.201	486.844	482.031	476.199	471.326	466.668
48.5	460.526	465.203	472.055	477.887	482.375	481.052	476.240	470.246	465.325	460.681
49.0	454.640	459.182	466.162	472.163	476.334	475.261	470.374	464.326	459.419	454.903
49.5	448.551	453.323	460.296	466.277	470.495	469.321	464.643	458.359	453.485	449.084
50.0	442.679	447.356	454.484	460.269	464.805	463.354	458.784	452.324	447.350	442.976
50.5	436.570	441.322	448.551	454.322	458.879	457.441	452.939	446.256	441.315	436.840
51.0	430.664	435.375	442.631	448.450	452.959	451.481	447.046	440.411	435.321	430.859
51.5	424.602	429.401	436.732	442.368	447.005	445.615	441.059	434.207	429.084	424.946
52.0	418.554	423.002	430.724	436.381	440.964	439.479	435.179	428.119	422.962	418.757
52.5	412.364	417.130	424.629	430.468	434.916	433.519	429.273	421.922	416.900	412.763
53.0	406.222	411.068	418.581	424.305	428.861	427.464	423.070	415.874	410.765	406.634
53.5	400.086	404.919	412.493	418.115	422.867	421.247	417.029	409.570	404.507	400.464
54.0	393.937	398.527	406.384	412.094	416.657	415.260	411.021	403.515	398.291	394.274
54.5	387.801	392.560	400.255	405.986	410.542	409.084	405.027	397.305	391.973	389.590

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55.0	381.632	386.438	393.984	399.985	404.528	403.043	398.871	391.061	385.857	385.715
55.5	375.293	380.228	387.828	393.694	398.439	396.738	392.627	384.629	379.458	377.933
56.0	369.090	374.186	381.530	387.477	392.168	390.548	386.404	378.419	373.329	369.758
56.5	362.853	369.853	375.334	381.321	385.931	384.534	380.160	372.134	366.896	363.110
57.0	356.576	364.095	369.063	375.125	379.775	378.189	373.835	365.702	360.545	356.859
57.5	350.217	357.129	362.624	368.746	373.518	371.871	367.639	359.255	354.044	350.494
58.0	343.811	349.826	356.326	362.637	367.349	365.654	361.233	353.147	347.855	344.311
58.5	337.541	342.866	350.015	356.387	361.159	359.627	354.868	346.768	341.381	337.912
59.0	331.223	336.184	343.703	350.062	354.760	353.268	348.401	340.187	335.003	331.553
59.5	324.911	329.765	337.183	343.663	348.347	346.714	341.948	333.740	328.556	325.384
60.0	318.607	323.507	331.061	337.453	342.097	340.531	335.630	327.362	322.171	318.971
60.5	312.147	317.216	325.019	331.094	335.934	334.321	329.150	321.023	315.650	312.532
61.0	305.654	310.736	319.235	324.790	329.589	327.976	322.832	314.564	309.177	306.160
61.5	299.241	304.425	313.187	318.465	323.048	321.489	316.163	307.976	302.724	299.855
62.0	292.856	298.161	306.997	312.120	316.737	315.259	309.670	301.543	296.366	293.558
62.5	286.524	291.992	299.957	305.741	310.426	308.799	303.217	295.056	289.724	287.132
63.0	279.943	286.781	292.734	299.376	304.081	302.454	296.892	288.590	283.176	280.739
63.5	273.375	282.380	285.748	292.950	297.682	296.035	290.210	282.177	276.669	274.381
64.0	267.037	277.202	279.241	286.592	291.269	289.784	283.561	275.650	270.189	267.874
64.5	260.712	270.486	272.606	280.139	284.810	283.291	277.148	269.109	263.648	261.556
65.0	254.138	262.460	266.213	273.800	278.424	276.811	270.770	262.609	257.060	256.331
65.5	247.536	254.259	259.855	267.408	272.120	270.446	264.141	256.183	250.628	252.302
66.0	241.070	247.043	253.206	260.840	265.565	263.966	257.479	249.662	244.107	246.935
66.5	234.745	240.233	246.544	254.374	259.058	257.445	250.931	243.088	237.607	240.725
67.0	228.265	233.780	240.455	248.063	252.626	250.979	244.465	237.391	230.999	234.468
67.5	221.623	227.421	233.942	241.616	246.382	244.640	237.978	232.214	224.424	227.698
68.0	215.224	221.474	227.475	235.116	239.774	238.214	233.017	226.051	218.099	221.218
68.5	208.865	216.412	220.759	228.677	233.381	231.842	228.636	219.989	211.613	214.718
69.0	202.358	211.329	214.583	222.386	226.949	225.221	222.514	214.063	205.065	208.136
69.5	195.872	205.605	208.055	215.865	220.482	218.774	215.993	207.191	198.592	200.644
70.0	189.479	199.368	201.582	209.257	213.874	212.321	209.129	200.664	192.051	191.302
70.5	182.999	192.969	195.116	202.905	207.596	205.949	202.709	195.473	185.612	184.181
71.0	176.627	186.341	188.946	196.668	201.299	199.611	195.298	188.912	179.294	177.863
71.5	170.330	179.267	182.385	190.262	194.879	193.145	186.388	181.339	172.800	171.612
72.0	163.917	170.971	176.101	183.897	188.231	186.678	179.260	172.584	166.496	168.176
72.5	157.444	163.141	169.614	177.491	181.926	180.299	172.942	165.503	160.252	162.567
73.0	151.173	156.904	163.411	171.167	175.460	173.961	166.631	159.071	153.920	156.438
73.5	144.943	151.713	157.235	164.909	168.656	167.697	160.299	152.712	147.683	150.107
74.0	138.753	147.683	151.058	158.605	161.960	161.332	153.947	146.637	141.608	143.350
74.5	132.563	141.602	144.720	152.186	155.250	154.838	147.656	140.292	135.540	136.600
75.0	126.279	136.208	138.517	145.294	148.284	148.338	141.311	134.123	129.472	129.843
75.5	120.258	130.437	132.428	138.895	141.089	141.723	135.061	127.865	123.404	123.086
76.0	114.224	123.944	126.475	132.307	133.880	135.095	128.959	126.002	117.335	116.377
76.5	108.270	114.460	120.508	125.604	126.839	128.203	122.951	120.521	111.227	111.044
77.0	102.452	107.649	114.453	118.429	119.927	121.331	116.883	115.601	105.320	106.306
77.5	96.613	101.385	108.621	111.726	113.819	114.210	110.896	108.324	99.691	100.616
78.0	90.869	96.174	102.749	105.098	108.709	107.480	104.929	101.210	93.832	93.785
78.5	85.246	90.416	96.775	98.962	104.220	100.906	98.942	93.947	88.061	88.418
79.0	79.380	84.119	90.653	93.785	99.961	95.276	92.786	88.054	82.404	82.613
79.5	73.967	79.697	84.760	89.519	96.127	90.592	86.886	81.992	77.058	76.248
80.0	68.681	74.459	78.806	85.070	93.022	86.292	80.939	76.930	71.496	71.564
80.5	63.322	68.303	72.779	81.405	89.897	82.040	74.716	71.240	66.292	65.556
81.0	58.178	62.242	66.818	77.996	86.697	78.638	68.573	65.806	61.101	60.386
81.5	53.325	56.768	61.229	74.696	83.653	75.107	62.694	60.487	55.904	55.350
82.0	48.479	52.002	56.248	71.165	80.555	71.618	57.112	55.296	50.645	50.274
82.5	43.639	47.257	52.387	67.797	77.301	67.959	52.981	50.105	45.772	45.353

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83.0	38.799	42.518	48.546	64.429	73.501	64.490	48.857	44.915	40.912	40.601
83.5	33.953	37.773	44.699	60.797	66.103	60.784	44.732	39.724	35.984	36.018
84.0	29.275	33.264	40.858	54.959	57.058	55.094	40.608	34.540	30.949	31.597
84.5	24.577	28.748	36.821	46.899	48.958	47.149	36.491	29.882	26.501	27.142
85.0	20.601	24.233	32.906	38.819	40.865	39.062	32.346	25.380	22.383	22.903
85.5	17.368	19.973	28.337	30.746	32.771	30.976	27.938	21.161	19.636	19.724
86.0	14.560	16.409	22.964	22.667	24.678	22.889	22.376	17.361	16.889	16.538
86.5	12.002	13.514	17.699	17.078	16.585	17.132	17.172	14.229	14.141	13.358
87.0	9.680	10.928	12.825	12.791	12.670	12.751	12.420	11.347	11.387	10.172
87.5	7.358	8.478	9.187	9.362	9.450	9.254	8.863	8.600	8.640	7.027
88.0	5.704	6.143	6.500	6.588	6.595	6.338	6.116	5.974	5.906	4.550
88.5	4.496	4.833	5.002	4.975	5.252	4.826	4.712	4.664	3.443	2.342
89.0	3.301	3.530	3.578	3.429	3.983	3.348	3.362	3.409	1.411	1.046
89.5	2.106	2.234	2.153	1.883	2.720	1.877	2.012	2.153	0.999	0.992
90.0	0.918	0.932	0.736	0.344	1.451	0.398	0.662	0.905	1.161	1.067
90.5	0.945	1.006	0.749	0.311	0.182	0.297	0.628	0.932	1.316	1.181
91.0	1.087	1.202	0.864	0.331	0.108	0.331	0.756	1.094	1.411	1.249
91.5	1.141	1.269	0.911	0.351	0.108	0.351	0.830	1.181	1.445	1.316
92.0	1.161	1.323	0.952	0.371	0.115	0.371	0.884	1.242	1.424	1.370
92.5	1.175	1.364	0.979	0.392	0.115	0.385	0.918	1.296	1.418	1.472
93.0	1.249	1.485	1.033	0.412	0.128	0.419	0.999	1.438	1.485	1.566
93.5	1.283	1.620	1.127	0.452	0.149	0.473	1.073	1.478	1.492	1.532
94.0	1.303	1.640	1.175	0.473	0.162	0.513	1.134	1.424	1.539	1.512
94.5	1.303	1.586	1.215	0.479	0.155	0.520	1.114	1.397	1.512	1.499
95.0	1.289	1.553	1.188	0.479	0.155	0.506	1.073	1.397	1.539	1.472
95.5	1.289	1.546	1.141	0.459	0.162	0.479	1.046	1.411	1.539	1.472
96.0	1.283	1.546	1.100	0.439	0.162	0.466	1.019	1.445	1.505	1.512
96.5	1.242	1.526	1.080	0.432	0.162	0.452	0.999	1.654	1.526	1.674
97.0	1.208	1.559	1.060	0.425	0.162	0.439	0.979	1.647	1.512	1.465
97.5	1.208	1.836	1.046	0.425	0.162	0.432	0.965	1.627	1.472	1.499
98.0	1.229	1.519	1.033	0.425	0.169	0.425	0.959	2.039	1.485	1.782
98.5	1.229	1.640	1.019	0.425	0.176	0.425	1.026	2.315	1.478	1.850
99.0	1.215	2.329	1.006	0.425	0.176	0.425	1.222	2.491	1.445	2.194
99.5	1.208	2.518	0.992	0.425	0.182	0.425	1.303	2.558	1.424	2.167
100.0	1.215	2.464	0.986	0.425	0.189	0.425	1.404	2.201	1.424	2.309
100.5	1.350	2.248	0.986	0.425	0.189	0.419	1.343	2.180	1.505	2.457
101.0	1.384	2.369	0.992	0.425	0.196	0.419	1.114	1.823	1.519	2.072
101.5	1.431	2.093	1.053	0.425	0.203	0.419	0.959	1.411	1.532	2.052
102.0	1.485	2.052	1.019	0.425	0.209	0.419	0.918	1.323	1.580	1.816
102.5	1.553	1.735	0.986	0.425	0.209	0.419	0.925	1.303	1.607	1.553
103.0	1.566	1.438	0.979	0.425	0.209	0.419	1.053	1.289	1.607	1.404
103.5	1.566	1.418	0.992	0.425	0.223	0.425	1.053	1.296	1.613	1.377
104.0	1.586	1.418	1.323	0.446	0.230	0.439	0.979	1.296	1.553	1.377
104.5	1.492	1.418	1.505	0.459	0.236	0.446	1.040	1.472	1.573	1.370
105.0	1.445	1.424	1.539	0.466	0.257	0.446	1.377	1.384	1.762	1.377
105.5	1.580	1.411	1.445	0.473	0.277	0.452	1.472	1.283	1.688	1.377
106.0	1.404	1.397	1.067	0.473	0.290	0.452	1.728	1.337	1.505	1.377
106.5	1.546	1.458	1.006	0.473	0.304	0.446	1.634	1.404	1.775	1.526
107.0	1.445	1.890	0.992	0.479	0.311	0.452	1.492	1.269	1.478	1.870
107.5	1.404	2.045	0.992	0.486	0.317	0.452	1.330	1.249	1.775	1.850
108.0	1.424	1.843	0.992	0.500	0.324	0.459	0.992	1.499	1.424	1.539
108.5	1.472	1.404	0.986	0.506	0.331	0.466	0.938	1.775	1.640	1.337
109.0	1.526	1.364	1.006	0.506	0.331	0.473	0.938	1.870	1.485	1.330
109.5	1.391	1.411	1.087	0.527	0.338	0.473	0.932	1.316	1.472	1.391
110.0	1.391	1.593	1.040	0.527	0.344	0.479	0.925	1.222	1.532	1.546
110.5	1.512	1.613	0.986	0.533	0.344	0.486	0.925	1.215	1.391	1.465

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CANDELA TABULATION - (Cont.)

111.0	1.283	1.472	0.972	0.547	0.351	0.493	0.918	1.343	1.350	1.593
111.5	1.485	1.357	0.972	0.547	0.358	0.500	0.911	1.559	1.323	1.303
112.0	1.357	1.343	0.965	0.554	0.365	0.506	0.905	1.451	1.370	1.283
112.5	1.377	1.350	0.965	0.560	0.371	0.513	0.898	1.222	1.404	1.283
113.0	1.249	1.519	0.959	0.567	0.378	0.520	0.884	1.195	1.222	1.418
113.5	1.451	1.701	0.952	0.581	0.378	0.527	0.878	1.215	1.222	1.661
114.0	1.289	1.640	0.938	0.587	0.385	0.533	0.878	1.303	1.242	1.640
114.5	1.431	1.384	0.932	0.587	0.392	0.540	0.871	1.283	1.445	1.451
115.0	1.215	1.316	0.925	0.594	0.398	0.547	0.864	1.175	1.215	1.242
115.5	1.215	1.303	0.918	0.594	0.405	0.547	0.857	1.154	1.161	1.222
116.0	1.505	1.384	0.911	0.601	0.412	0.554	0.857	1.148	1.148	1.215
116.5	1.303	1.364	0.911	0.601	0.419	0.554	0.851	1.141	1.148	1.249
117.0	1.262	1.310	0.911	0.594	0.425	0.554	0.844	1.141	1.269	1.276
117.5	1.188	1.289	0.911	0.594	0.432	0.554	0.837	1.175	1.289	1.195
118.0	1.181	1.276	0.911	0.587	0.446	0.560	0.837	1.451	1.107	1.181
118.5	1.181	1.276	0.905	0.587	0.452	0.560	0.844	1.532	1.080	1.181
119.0	1.242	1.276	0.905	0.581	0.459	0.567	1.073	1.505	1.094	1.175
119.5	1.411	1.276	0.898	0.581	0.466	0.574	1.114	1.458	1.087	1.168
120.0	1.235	1.330	0.898	0.581	0.473	0.574	0.945	1.242	1.094	1.175
120.5	1.181	1.350	0.905	0.581	0.473	0.574	0.844	1.161	1.235	1.215
121.0	1.188	1.310	0.905	0.574	0.479	0.574	0.830	1.175	1.222	1.188
121.5	1.188	1.310	0.911	0.574	0.493	0.567	0.830	1.175	1.100	1.148
122.0	1.188	1.323	0.911	0.574	0.493	0.567	0.830	1.202	1.148	1.141
122.5	1.181	1.418	0.918	0.574	0.500	0.567	0.830	1.127	1.073	1.121
123.0	1.175	1.465	0.932	0.574	0.500	0.560	0.830	1.067	1.060	1.195
123.5	1.168	1.276	1.046	0.574	0.500	0.560	0.830	1.053	1.046	1.262
124.0	1.141	1.175	0.999	0.574	0.506	0.560	0.830	1.060	1.026	1.121
124.5	1.121	1.222	0.938	0.574	0.506	0.560	0.830	1.168	0.965	0.992
125.0	1.060	1.121	0.911	0.581	0.506	0.560	0.830	1.073	0.844	0.959
125.5	0.932	1.073	0.911	0.581	0.506	0.560	0.810	0.945	0.830	0.952
126.0	0.918	0.979	0.905	0.587	0.513	0.567	0.790	0.871	0.830	0.844
126.5	0.945	0.911	0.878	0.587	0.513	0.567	0.763	0.864	0.803	0.878
127.0	0.925	0.932	0.857	0.594	0.513	0.567	0.749	0.905	0.709	0.918
127.5	0.797	0.992	0.837	0.594	0.513	0.567	0.749	0.938	0.743	0.972
128.0	0.824	1.033	0.837	0.594	0.527	0.567	0.749	0.952	0.729	0.972
128.5	0.763	1.060	0.884	0.601	0.533	0.574	0.776	0.959	0.648	0.952
129.0	0.716	1.053	0.905	0.601	0.540	0.574	0.824	0.952	0.716	0.932
129.5	0.830	1.053	0.857	0.608	0.547	0.581	0.810	0.959	0.844	0.925
130.0	0.952	1.046	0.824	0.608	0.554	0.581	0.830	0.986	0.898	0.911
130.5	1.013	1.053	0.824	0.608	0.560	0.581	0.851	0.952	0.952	0.911
131.0	1.080	1.053	0.851	0.608	0.567	0.587	0.797	0.972	0.972	0.938
131.5	1.087	1.046	0.878	0.614	0.574	0.587	0.763	0.979	0.965	0.945
132.0	1.087	1.040	0.905	0.621	0.581	0.587	0.770	1.006	0.972	0.932
132.5	1.094	1.046	0.932	0.614	0.587	0.574	0.776	0.952	1.013	0.932
133.0	1.094	1.033	0.932	0.608	0.587	0.567	0.776	0.911	0.952	0.938
133.5	1.094	1.019	0.905	0.614	0.587	0.560	0.790	0.898	0.925	0.932
134.0	1.094	1.053	0.898	0.608	0.594	0.554	0.797	0.884	0.918	0.918
134.5	1.094	1.148	0.905	0.601	0.587	0.554	0.803	0.884	0.918	0.925
135.0	1.107	1.087	0.911	0.601	0.587	0.554	0.803	0.905	0.918	0.972
135.5	1.107	1.060	0.905	0.601	0.587	0.554	0.810	0.891	0.911	1.107
136.0	1.107	1.188	0.905	0.594	0.581	0.554	0.824	0.871	0.911	1.046
136.5	1.114	1.316	0.911	0.587	0.581	0.554	0.824	0.871	0.911	0.918
137.0	1.107	1.303	0.932	0.587	0.581	0.554	0.830	0.871	0.918	0.891
137.5	1.100	1.222	1.019	0.601	0.581	0.567	0.830	0.864	0.945	0.905
138.0	1.094	1.107	1.087	0.608	0.587	0.574	0.817	0.844	1.006	0.891
138.5	1.100	1.046	0.979	0.614	0.587	0.574	0.824	0.844	0.952	0.891

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139.0	1.107	1.026	0.918	0.614	0.587	0.587	0.817	0.851	0.952	0.884
139.5	1.107	1.013	0.905	0.628	0.608	0.594	0.810	0.857	0.938	0.884
140.0	1.107	1.006	0.905	0.635	0.608	0.601	0.797	0.871	0.932	0.905
140.5	1.107	1.019	0.898	0.641	0.608	0.608	0.783	0.891	0.925	0.911
141.0	1.100	1.040	0.837	0.648	0.608	0.614	0.770	0.898	0.925	0.918
141.5	1.100	1.053	0.817	0.655	0.614	0.621	0.756	0.891	0.932	0.925
142.0	1.107	1.060	0.797	0.662	0.614	0.628	0.749	0.891	0.945	0.925
142.5	1.134	1.060	0.770	0.668	0.621	0.641	0.810	0.884	0.959	0.905
143.0	1.121	1.067	0.743	0.682	0.621	0.648	0.851	0.878	0.965	0.891
143.5	1.087	1.067	0.709	0.689	0.628	0.655	0.770	0.898	0.965	0.884
144.0	1.073	1.060	0.682	0.695	0.628	0.662	0.702	0.905	1.006	0.891
144.5	1.073	1.046	0.675	0.716	0.635	0.675	0.668	0.925	1.040	0.905
145.0	1.067	1.040	0.675	0.722	0.641	0.675	0.662	0.925	0.972	0.905
145.5	1.067	1.046	0.682	0.716	0.641	0.675	0.662	0.925	0.945	0.911
146.0	1.067	1.067	0.689	0.722	0.655	0.682	0.662	0.918	0.932	0.911
146.5	1.060	1.067	0.689	0.729	0.675	0.689	0.662	0.905	0.932	0.918
147.0	1.053	1.033	0.689	0.729	0.675	0.689	0.668	0.905	0.938	0.925
147.5	1.026	0.999	0.682	0.729	0.675	0.689	0.662	0.891	0.945	0.918
148.0	1.013	0.972	0.695	0.729	0.675	0.675	0.662	0.851	0.952	0.891
148.5	0.999	0.918	0.702	0.729	0.675	0.675	0.662	0.844	0.952	0.864
149.0	0.999	0.857	0.702	0.729	0.682	0.675	0.675	0.844	0.938	0.851
149.5	1.006	0.844	0.709	0.729	0.682	0.675	0.682	0.810	0.932	0.837
150.0	1.067	0.837	0.709	0.729	0.682	0.675	0.682	0.797	0.932	0.817
150.5	1.006	0.824	0.716	0.716	0.675	0.675	0.682	0.797	0.911	0.783
151.0	0.837	0.783	0.722	0.722	0.675	0.682	0.682	0.783	0.878	0.776
151.5	0.797	0.736	0.756	0.743	0.675	0.689	0.695	0.756	0.824	0.776
152.0	0.783	0.716	0.844	0.749	0.662	0.695	0.702	0.695	0.824	0.743
152.5	0.743	0.709	0.938	0.749	0.662	0.689	0.702	0.689	0.905	0.682
153.0	0.675	0.716	0.918	0.736	0.668	0.689	0.702	0.695	0.837	0.641
153.5	0.662	0.736	0.830	0.722	0.675	0.675	0.702	0.695	0.770	0.621
154.0	0.648	0.736	0.790	0.716	0.689	0.668	0.709	0.722	0.709	0.621
154.5	0.655	0.736	0.790	0.722	0.689	0.668	0.722	0.729	0.702	0.628
155.0	0.662	0.770	0.797	0.722	0.675	0.662	0.736	0.729	0.709	0.655
155.5	0.668	0.783	0.803	0.722	0.668	0.662	0.743	0.763	0.722	0.675
156.0	0.662	0.776	0.810	0.722	0.675	0.668	0.743	0.797	0.749	0.682
156.5	0.702	0.797	0.817	0.729	0.675	0.682	0.763	0.790	0.749	0.689
157.0	0.736	0.824	0.824	0.810	0.682	0.695	0.776	0.797	0.763	0.716
157.5	0.743	0.830	0.824	0.959	0.675	0.702	0.783	0.790	0.810	0.743
158.0	0.797	0.844	0.830	1.033	0.682	0.702	0.783	0.783	0.830	0.749
158.5	0.905	0.864	0.837	0.952	0.695	0.709	0.790	0.776	0.837	0.763
159.0	1.013	0.871	0.837	0.824	0.702	0.709	0.790	0.756	0.851	0.783
159.5	1.006	0.878	0.837	0.783	0.702	0.709	0.797	0.749	0.844	0.783
160.0	0.932	0.871	0.837	0.790	0.702	0.722	0.797	0.736	0.837	0.770
160.5	0.891	0.864	0.830	0.797	0.709	0.743	0.790	0.736	0.851	0.763
161.0	0.884	0.878	0.824	0.803	0.716	0.749	0.783	0.736	0.979	0.770
161.5	0.878	0.851	0.817	0.803	0.729	0.743	0.776	0.743	1.026	0.763
162.0	0.857	0.824	0.783	0.783	0.736	0.736	0.763	0.749	0.905	0.756
162.5	0.844	0.817	0.783	0.770	0.743	0.722	0.729	0.729	0.776	0.736
163.0	0.844	0.824	0.783	0.770	0.736	0.716	0.729	0.722	0.743	0.749
163.5	0.837	0.824	0.783	0.770	0.736	0.722	0.729	0.722	0.736	0.763
164.0	0.851	0.824	0.790	0.770	0.729	0.756	0.729	0.702	0.743	0.756
164.5	0.864	0.817	0.790	0.763	0.736	0.763	0.729	0.702	0.749	0.749
165.0	0.864	0.817	0.803	0.763	0.743	0.756	0.729	0.716	0.749	0.743
165.5	0.864	0.810	0.837	0.770	0.743	0.770	0.743	0.729	0.749	0.729
166.0	0.871	0.810	0.857	0.756	0.729	0.749	0.756	0.722	0.749	0.729
166.5	0.878	0.817	0.891	0.763	0.729	0.729	0.763	0.702	0.756	0.736

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167.0	0.878	0.797	0.938	0.756	0.702	0.729	0.763	0.675	0.776	0.722
167.5	0.878	0.790	0.911	0.756	0.716	0.729	0.803	0.668	0.763	0.729
168.0	0.884	0.783	0.844	0.756	0.722	0.716	0.824	0.662	0.743	0.763
168.5	0.918	0.797	0.830	0.770	0.709	0.722	0.770	0.655	0.756	0.837
169.0	1.013	0.803	0.830	0.790	0.709	0.729	0.736	0.648	0.749	0.851
169.5	1.100	0.824	0.851	0.783	0.716	0.729	0.736	0.648	0.736	0.783
170.0	1.060	0.837	0.817	0.749	0.736	0.702	0.743	0.655	0.709	0.722
170.5	0.932	0.837	0.790	0.736	0.716	0.668	0.722	0.662	0.702	0.702
171.0	0.864	0.830	0.783	0.743	0.655	0.662	0.695	0.668	0.736	0.729
171.5	0.851	0.824	0.776	0.749	0.641	0.655	0.675	0.682	0.817	0.803
172.0	0.830	0.810	0.770	0.797	0.641	0.662	0.668	0.689	0.911	0.905
172.5	0.824	0.803	0.763	0.837	0.655	0.668	0.662	0.689	0.918	0.925
173.0	0.837	0.797	0.756	0.824	0.675	0.675	0.662	0.689	0.830	0.837
173.5	0.851	0.797	0.763	0.770	0.662	0.689	0.662	0.682	0.790	0.783
174.0	0.871	0.790	0.776	0.743	0.641	0.709	0.682	0.702	0.797	0.790
174.5	0.878	0.810	0.817	0.756	0.655	0.709	0.716	0.743	0.810	0.803
175.0	0.878	0.824	0.837	0.749	0.628	0.729	0.749	0.810	0.830	0.824
175.5	0.898	0.857	0.837	0.756	0.635	0.743	0.763	0.837	0.878	0.871
176.0	0.925	0.864	0.837	0.776	0.668	0.770	0.770	0.851	0.871	0.878
176.5	0.972	0.884	0.824	0.770	0.729	0.783	0.763	0.844	0.864	0.864
177.0	1.067	0.891	0.830	0.729	0.749	0.776	0.770	0.837	0.851	0.857
177.5	1.053	0.891	0.837	0.716	0.736	0.763	0.770	0.830	0.851	0.851
178.0	0.972	0.898	0.837	0.729	0.736	0.743	0.790	0.830	0.851	0.851
178.5	0.918	0.898	0.837	0.743	0.770	0.743	0.803	0.817	0.857	0.857
179.0	0.898	0.891	0.851	0.736	0.783	0.749	0.824	0.837	0.878	0.891
179.5	0.911	0.891	0.884	0.743	0.810	0.749	0.837	0.844	1.033	1.040
180.0	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925

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	804.931	804.931	804.931	804.931	804.931	804.931	804.931
0.5	804.782	804.708	804.614	804.614	804.654	804.762	804.870
1.0	804.519	804.384	804.290	804.249	804.330	804.465	804.701
1.5	804.202	803.966	803.858	803.810	803.939	804.114	804.391
2.0	803.763	803.507	803.324	803.297	803.392	803.662	803.966
2.5	803.216	802.899	802.710	802.690	802.791	803.122	803.453
3.0	802.595	802.224	802.015	801.920	802.109	802.413	802.872
3.5	801.920	801.515	801.245	801.144	801.293	801.657	802.177
4.0	801.158	800.645	800.395	800.307	800.469	800.874	801.367
4.5	800.294	799.727	799.450	799.335	799.477	799.956	800.564
5.0	799.315	798.761	798.431	798.269	798.464	798.944	799.646
5.5	798.282	797.702	797.330	797.128	797.290	797.810	798.566
6.0	797.155	796.514	796.109	795.960	796.109	796.669	797.452
6.5	795.926	795.224	794.867	794.630	794.765	795.400	796.237
7.0	794.644	793.908	793.463	793.253	793.422	794.070	794.954
7.5	793.240	792.477	792.045	791.762	791.951	792.632	793.611
8.0	791.782	790.918	790.520	790.202	790.358	791.147	792.153
8.5	790.189	789.325	788.900	788.549	788.744	789.561	790.648
9.0	788.528	787.651	787.158	786.848	787.070	787.813	789.035
9.5	786.800	785.849	785.383	785.059	785.180	786.065	787.327
10.0	784.944	784.073	783.567	783.081	783.324	784.289	785.579
10.5	783.074	782.170	781.583	781.151	781.367	782.352	783.655
11.0	781.130	780.138	779.618	779.159	779.335	780.347	781.684
11.5	779.065	778.005	777.512	777.006	777.188	778.289	779.632
12.0	776.885	775.940	775.305	774.758	774.968	776.149	777.539

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12.5	774.650	773.618	773.111	772.463	772.693	773.874	775.352
13.0	772.328	771.404	770.789	770.141	770.351	771.572	773.145
13.5	769.966	768.906	768.326	767.759	767.988	769.203	770.850
14.0	767.556	766.550	765.882	765.146	765.443	766.787	768.440
14.5	765.052	763.925	763.351	762.656	762.750	764.242	766.017
15.0	762.352	761.265	760.705	759.983	760.192	761.623	763.432
15.5	759.665	758.606	757.985	757.202	757.458	758.943	760.887
16.0	756.992	755.831	755.177	754.333	754.670	756.203	758.194
16.5	754.124	752.902	752.342	751.579	751.802	753.293	755.474
17.0	751.275	750.020	749.466	748.609	748.886	750.479	752.645
17.5	748.217	746.996	746.429	745.504	745.848	747.482	749.723
18.0	745.247	743.931	743.418	742.406	742.743	744.451	746.631
18.5	742.169	740.779	740.219	739.341	739.598	741.326	743.681
19.0	738.869	737.519	737.073	736.054	736.412	738.180	740.529
19.5	735.683	734.333	733.833	732.746	733.064	734.913	737.296
20.0	732.355	730.964	730.478	729.459	729.722	731.653	734.036
20.5	728.980	727.562	727.130	726.044	726.395	728.379	730.789
21.0	725.443	724.093	723.661	722.513	722.885	724.815	727.319
21.5	722.000	720.522	720.056	718.929	719.300	721.305	723.857
22.0	718.355	716.978	716.472	715.352	715.730	717.802	720.333
22.5	714.710	713.300	712.868	711.653	712.064	714.197	716.843
23.0	711.086	709.675	709.209	707.927	708.433	710.579	713.111
23.5	707.420	705.908	705.368	704.228	704.538	706.732	709.445
24.0	703.546	702.020	701.514	700.367	700.758	702.925	705.692
24.5	699.678	698.065	697.646	696.344	696.843	699.111	701.811
25.0	695.750	694.271	693.785	692.354	692.861	695.162	697.889
25.5	691.794	690.282	689.668	688.439	688.844	691.106	694.028
26.0	687.636	686.063	685.618	684.315	684.754	687.157	690.066
26.5	683.613	681.986	681.602	680.177	680.731	683.120	685.996
27.0	679.367	677.889	677.552	676.033	676.492	678.942	681.811
27.5	675.122	673.596	673.205	671.828	672.395	674.791	677.720
28.0	670.795	669.283	668.972	667.440	668.000	670.403	673.475
28.5	666.509	665.037	664.571	663.073	663.620	666.063	669.141
29.0	662.128	660.636	660.191	658.787	659.212	661.743	664.740
29.5	657.707	656.188	655.783	654.359	654.777	657.383	660.488
30.0	653.231	651.605	651.341	649.802	650.295	653.022	656.046
30.5	648.716	647.190	646.799	645.219	645.786	648.351	651.564
31.0	644.153	642.607	642.269	640.784	641.176	643.829	647.001
31.5	639.374	637.841	637.578	635.999	636.579	639.144	642.371
32.0	634.750	633.211	632.968	631.260	631.814	634.642	637.774
32.5	630.133	628.668	628.425	626.711	627.095	630.005	633.130
33.0	625.232	623.781	623.693	621.986	622.357	625.118	628.364
33.5	620.433	619.022	618.894	616.991	617.639	620.352	623.457
34.0	615.688	614.250	613.987	612.158	612.718	615.357	618.658
34.5	610.706	609.424	609.296	607.399	607.757	610.625	613.778
35.0	605.738	604.483	604.375	602.444	602.829	605.705	608.870
35.5	600.656	599.495	599.447	597.335	597.868	600.595	603.808
36.0	595.850	594.682	594.689	592.542	592.893	595.667	598.806
36.5	590.652	589.586	589.781	587.581	587.939	590.598	593.683
37.0	585.664	584.516	584.631	582.451	582.815	585.468	588.526
37.5	580.345	579.420	579.697	577.307	577.584	580.217	583.382
38.0	575.316	574.364	574.574	572.285	572.353	575.120	578.232
38.5	569.930	569.214	569.477	567.128	567.344	569.889	572.900
39.0	564.786	564.010	564.260	561.884	562.019	564.530	567.641
39.5	559.643	558.941	559.271	556.794	556.740	559.265	562.228
40.0	554.229	553.709	553.959	551.684	551.387	553.932	556.943

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40.5	548.836	548.417	548.701	546.264	546.183	548.525	551.482
41.0	543.564	543.166	543.328	540.918	540.709	542.990	545.974
41.5	538.178	537.806	538.070	535.700	535.214	537.550	540.473
42.0	532.751	532.447	532.710	530.354	529.882	532.103	535.120
42.5	527.364	527.060	527.344	524.833	524.678	526.574	529.490
43.0	522.018	521.775	521.998	519.500	519.062	521.019	524.009
43.5	516.389	516.301	516.490	514.087	513.405	515.295	518.157
44.0	510.833	510.597	510.827	508.586	507.890	509.720	512.629
44.5	505.278	505.130	505.325	503.003	502.403	504.023	506.844
45.0	499.709	499.608	499.784	497.414	496.773	498.359	501.336
45.5	493.958	494.012	494.168	491.873	491.150	492.635	495.416
46.0	488.484	488.417	488.504	486.230	485.588	486.851	489.719
46.5	482.882	482.706	482.936	480.654	480.101	481.201	483.901
47.0	477.063	476.955	477.097	474.957	474.201	475.382	478.184
47.5	471.211	471.150	471.272	469.037	468.416	469.490	472.169
48.0	465.716	465.440	465.453	463.232	462.719	463.610	466.398
48.5	459.864	459.601	459.851	457.562	456.982	457.718	460.526
49.0	454.059	453.769	453.978	451.832	451.278	451.940	454.640
49.5	448.160	447.856	448.052	445.871	445.338	446.013	448.551
50.0	442.274	442.118	442.267	439.891	439.418	439.985	442.679
50.5	436.394	436.219	436.381	434.093	433.539	434.039	436.570
51.0	430.407	430.063	430.340	428.308	427.734	428.004	430.664
51.5	424.508	424.170	424.400	422.105	421.868	421.929	424.602
52.0	418.473	418.426	418.561	416.097	415.712	415.928	418.554
52.5	412.499	412.405	412.668	410.265	409.786	410.002	412.364
53.0	406.357	406.451	406.613	404.453	403.900	403.866	406.222
53.5	400.316	400.322	400.498	398.216	397.764	397.636	400.086
54.0	394.281	394.335	394.524	392.114	391.615	391.669	393.937
54.5	387.983	388.206	388.469	386.114	385.445	385.391	387.801
55.0	381.834	382.226	382.435	380.045	379.418	379.262	381.632
55.5	375.732	376.049	376.441	373.950	373.187	373.552	375.293
56.0	369.590	370.130	370.393	367.882	367.058	370.386	369.090
56.5	363.420	363.906	364.190	361.780	360.950	367.153	362.853
57.0	357.068	357.656	358.027	355.556	354.476	361.530	356.576
57.5	350.750	351.554	352.148	349.367	348.179	355.138	350.217
58.0	344.459	345.438	345.681	343.224	342.158	348.320	343.811
58.5	338.141	339.248	339.599	337.028	336.940	338.992	337.541
59.0	331.965	333.099	333.443	330.797	332.816	329.933	331.223
59.5	325.688	326.849	327.551	324.756	328.219	323.096	324.911
60.0	319.282	320.605	321.091	318.600	322.684	316.697	318.607
60.5	312.795	314.348	314.827	312.107	316.508	310.352	312.147
61.0	306.632	308.178	308.759	305.876	309.744	303.993	305.654
61.5	300.335	301.982	302.677	299.801	302.771	297.621	299.241
62.0	293.841	295.610	296.359	293.564	295.110	291.323	292.856
62.5	287.489	289.373	289.980	287.213	286.821	285.039	286.524
63.0	281.050	283.176	283.871	280.935	279.160	278.654	279.943
63.5	274.536	276.858	277.513	274.725	272.444	272.309	273.375
64.0	268.211	270.614	271.134	268.326	266.011	266.065	267.037
64.5	261.914	264.357	265.032	262.123	259.781	259.787	260.712
65.0	255.501	258.107	258.876	255.953	253.604	253.301	254.138
65.5	248.994	251.849	252.572	249.554	247.563	246.854	247.536
66.0	242.669	245.815	246.287	243.169	241.353	240.503	241.070
66.5	236.270	239.382	240.010	237.006	235.150	233.982	234.745
67.0	229.959	233.078	233.854	230.972	228.947	227.725	228.265
67.5	223.425	226.739	227.495	224.363	222.230	222.723	221.623
68.0	217.107	220.786	221.306	218.059	215.521	219.422	215.224

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68.5	210.796	214.495	215.251	212.051	208.940	216.324	208.865
69.0	204.478	208.022	208.811	205.862	202.561	211.700	202.358
69.5	198.146	201.798	202.547	199.314	196.162	204.950	195.872
70.0	191.680	195.737	196.445	193.178	189.803	197.937	189.479
70.5	185.463	189.520	190.337	187.083	183.560	190.235	182.999
71.0	179.199	183.168	183.890	180.819	177.485	181.427	176.627
71.5	173.023	177.059	177.849	174.562	172.186	174.953	170.330
72.0	166.934	171.227	171.896	168.683	164.943	167.339	163.917
72.5	160.610	164.943	165.638	162.432	158.807	160.286	157.444
73.0	154.352	158.578	159.388	156.384	152.685	154.629	151.173
73.5	148.372	152.665	153.326	150.329	146.597	148.183	144.943
74.0	142.439	146.948	147.251	144.491	140.657	141.602	138.753
74.5	136.519	140.758	140.981	138.463	134.710	135.020	132.563
75.0	130.599	134.568	134.717	132.435	128.763	128.439	126.279
75.5	124.679	128.378	128.446	126.414	122.823	121.851	120.258
76.0	118.760	122.189	122.175	120.386	116.876	115.283	114.224
76.5	112.732	115.999	115.931	114.359	111.004	109.526	108.270
77.0	107.123	109.877	110.288	108.371	105.314	105.003	102.452
77.5	101.318	103.916	104.983	102.303	99.745	103.201	96.613
78.0	95.594	97.949	100.238	96.336	94.129	98.287	90.869
78.5	89.944	92.489	96.161	90.680	88.506	89.519	85.246
79.0	84.362	87.953	92.117	85.664	82.937	83.268	79.380
79.5	78.584	83.518	88.985	81.304	77.409	77.976	73.967
80.0	72.927	79.724	85.941	76.869	71.969	72.205	68.681
80.5	67.682	76.397	82.991	73.359	66.569	65.138	63.322
81.0	62.201	73.001	80.001	70.065	61.283	59.643	58.178
81.5	56.990	69.498	76.930	66.690	55.944	54.587	53.325
82.0	52.583	66.056	73.798	63.268	50.902	49.160	48.479
82.5	48.472	62.485	68.945	59.765	46.359	44.037	43.639
83.0	44.422	57.551	60.892	56.093	42.086	39.245	38.799
83.5	40.392	50.058	51.192	50.220	38.165	34.601	33.953
84.0	36.443	41.837	41.168	42.815	34.229	29.963	29.275
84.5	32.319	33.224	31.860	34.709	30.240	25.569	24.577
85.0	27.041	25.407	24.219	26.669	26.359	21.404	20.601
85.5	22.748	21.263	20.311	22.356	22.282	18.617	17.368
86.0	18.448	17.111	16.396	18.043	18.198	15.829	14.560
86.5	14.148	12.967	12.488	13.736	14.121	13.041	12.002
87.0	9.848	8.822	8.573	9.423	10.044	10.253	9.680
87.5	5.657	4.759	4.712	5.144	6.021	7.486	7.358
88.0	3.389	2.498	2.369	2.916	3.888	5.184	5.704
88.5	1.640	0.952	0.911	1.289	2.214	3.085	4.496
89.0	0.763	0.385	0.257	0.520	1.094	1.431	3.301
89.5	0.736	0.371	0.230	0.466	0.837	0.864	2.106
90.0	0.844	0.385	0.223	0.500	0.911	0.959	0.918
90.5	0.878	0.398	0.230	0.527	1.080	1.215	0.945
91.0	0.911	0.419	0.236	0.547	1.141	1.384	1.087
91.5	0.938	0.439	0.236	0.574	1.175	1.431	1.141
92.0	0.979	0.459	0.250	0.608	1.208	1.485	1.161
92.5	1.094	0.493	0.270	0.648	1.262	1.526	1.175
93.0	1.161	0.527	0.284	0.655	1.323	1.600	1.249
93.5	1.141	0.513	0.277	0.662	1.370	1.674	1.283
94.0	1.087	0.500	0.284	0.662	1.357	1.721	1.303
94.5	1.046	0.486	0.284	0.662	1.350	1.715	1.303
95.0	1.046	0.479	0.290	0.662	1.350	1.681	1.289
95.5	1.026	0.479	0.297	0.655	1.310	1.694	1.289
96.0	1.006	0.479	0.304	0.655	1.283	1.843	1.283

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CANDELA TABULATION - (Cont.)

96.5	0.986	0.479	0.311	0.655	1.262	1.931	1.242
97.0	0.979	0.479	0.311	0.655	1.256	1.991	1.208
97.5	0.972	0.486	0.317	0.662	1.249	2.032	1.208
98.0	0.959	0.493	0.331	0.662	1.242	2.383	1.229
98.5	0.952	0.506	0.338	0.668	1.262	2.700	1.229
99.0	0.945	0.506	0.344	0.668	1.235	2.957	1.215
99.5	0.938	0.513	0.351	0.668	1.215	2.754	1.208
100.0	0.938	0.513	0.351	0.662	1.208	2.531	1.215
100.5	0.972	0.513	0.358	0.662	1.215	2.430	1.350
101.0	0.945	0.513	0.365	0.662	1.242	2.032	1.384
101.5	0.932	0.513	0.365	0.662	1.323	1.647	1.431
102.0	0.932	0.520	0.365	0.662	1.519	1.647	1.485
102.5	0.932	0.520	0.378	0.662	1.620	1.613	1.553
103.0	0.986	0.520	0.385	0.662	1.323	1.593	1.566
103.5	1.316	0.520	0.385	0.662	1.357	1.586	1.566
104.0	1.728	0.527	0.392	0.662	1.661	1.586	1.586
104.5	1.613	0.527	0.392	0.662	1.742	1.607	1.492
105.0	1.377	0.527	0.398	0.662	2.012	1.620	1.445
105.5	1.033	0.527	0.405	0.655	1.809	1.931	1.580
106.0	0.959	0.527	0.412	0.662	1.654	1.809	1.404
106.5	0.952	0.533	0.412	0.655	1.404	1.829	1.546
107.0	0.945	0.533	0.419	0.655	1.202	1.586	1.445
107.5	0.945	0.540	0.425	0.662	1.188	1.829	1.404
108.0	0.945	0.547	0.432	0.662	1.188	1.937	1.424
108.5	0.945	0.540	0.439	0.668	1.188	1.802	1.472
109.0	0.959	0.547	0.439	0.675	1.181	1.789	1.526
109.5	0.959	0.547	0.439	0.675	1.181	1.539	1.391
110.0	0.938	0.547	0.446	0.689	1.175	1.532	1.391
110.5	0.938	0.547	0.452	0.702	1.161	1.580	1.512
111.0	0.932	0.554	0.452	0.709	1.154	1.586	1.283
111.5	0.918	0.554	0.452	0.716	1.141	1.512	1.485
112.0	0.911	0.554	0.452	0.716	1.127	1.512	1.357
112.5	0.898	0.554	0.459	0.716	1.114	1.634	1.377
113.0	0.891	0.554	0.459	0.716	1.100	1.883	1.249
113.5	0.878	0.560	0.459	0.722	1.094	1.823	1.451
114.0	0.871	0.554	0.459	0.722	1.087	1.566	1.289
114.5	0.857	0.554	0.459	0.722	1.073	1.451	1.431
115.0	0.851	0.554	0.459	0.722	1.067	1.438	1.215
115.5	0.844	0.554	0.459	0.722	1.060	1.431	1.215
116.0	0.837	0.554	0.459	0.722	1.053	1.424	1.505
116.5	0.830	0.554	0.459	0.716	1.046	1.451	1.303
117.0	0.824	0.547	0.466	0.709	1.040	1.694	1.262
117.5	0.817	0.540	0.466	0.702	1.040	1.937	1.188
118.0	0.810	0.540	0.466	0.695	1.100	1.836	1.181
118.5	0.803	0.533	0.466	0.689	1.100	1.640	1.181
119.0	0.797	0.527	0.473	0.675	1.040	1.431	1.242
119.5	0.790	0.520	0.473	0.668	1.026	1.397	1.411
120.0	0.783	0.513	0.473	0.662	1.013	1.397	1.235
120.5	0.783	0.513	0.473	0.655	1.006	1.431	1.181
121.0	0.776	0.513	0.473	0.648	1.006	1.593	1.188
121.5	0.770	0.506	0.479	0.641	0.999	1.397	1.188
122.0	0.770	0.506	0.479	0.635	0.999	1.350	1.188
122.5	0.770	0.506	0.479	0.635	1.006	1.337	1.181
123.0	0.810	0.500	0.479	0.628	1.019	1.316	1.175
123.5	1.006	0.500	0.479	0.621	0.992	1.330	1.168
124.0	1.060	0.493	0.479	0.614	0.945	1.350	1.141

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CANDELA TABULATION - (Cont.)

124.5	0.898	0.493	0.479	0.608	0.911	1.208	1.121
125.0	0.729	0.493	0.479	0.608	0.891	1.188	1.060
125.5	0.695	0.493	0.479	0.608	0.884	1.188	0.932
126.0	0.675	0.493	0.479	0.614	0.884	1.161	0.918
126.5	0.668	0.493	0.486	0.614	0.878	0.986	0.945
127.0	0.668	0.493	0.486	0.614	0.864	0.959	0.925
127.5	0.662	0.493	0.493	0.614	0.871	0.992	0.797
128.0	0.662	0.500	0.493	0.614	0.932	1.053	0.824
128.5	0.655	0.500	0.500	0.614	1.026	1.087	0.763
129.0	0.655	0.500	0.506	0.621	0.992	1.127	0.716
129.5	0.682	0.506	0.513	0.621	0.945	1.175	0.830
130.0	0.695	0.506	0.527	0.614	0.932	1.310	0.952
130.5	0.702	0.506	0.533	0.594	0.911	1.323	1.013
131.0	0.743	0.493	0.540	0.594	0.911	1.357	1.080
131.5	0.743	0.493	0.540	0.587	0.925	1.235	1.087
132.0	0.736	0.493	0.547	0.574	0.938	1.134	1.087
132.5	0.736	0.493	0.547	0.574	0.945	1.107	1.094
133.0	0.749	0.493	0.540	0.581	0.959	1.107	1.094
133.5	0.749	0.493	0.547	0.581	0.986	1.100	1.094
134.0	0.756	0.500	0.554	0.581	0.986	1.094	1.094
134.5	0.770	0.500	0.547	0.581	0.992	1.080	1.094
135.0	0.776	0.506	0.554	0.587	0.986	1.073	1.107
135.5	0.776	0.506	0.560	0.601	0.986	1.087	1.107
136.0	0.790	0.527	0.560	0.608	0.992	1.100	1.107
136.5	0.783	0.527	0.567	0.608	0.999	1.100	1.114
137.0	0.797	0.533	0.574	0.621	0.992	1.100	1.107
137.5	0.803	0.547	0.587	0.621	0.972	1.107	1.100
138.0	0.797	0.560	0.601	0.621	0.965	1.114	1.094
138.5	0.797	0.567	0.601	0.628	0.959	1.121	1.100
139.0	0.790	0.574	0.601	0.641	0.952	1.121	1.107
139.5	0.776	0.581	0.614	0.655	0.932	1.121	1.107
140.0	0.763	0.587	0.621	0.662	0.925	1.134	1.107
140.5	0.756	0.594	0.621	0.682	0.905	1.141	1.107
141.0	0.763	0.608	0.628	0.689	0.884	1.134	1.100
141.5	0.743	0.608	0.628	0.702	0.844	1.134	1.100
142.0	0.743	0.614	0.635	0.716	0.830	1.127	1.107
142.5	0.844	0.621	0.641	0.722	0.824	1.114	1.134
143.0	0.965	0.621	0.648	0.722	0.797	1.100	1.121
143.5	0.871	0.628	0.655	0.729	0.743	1.100	1.087
144.0	0.736	0.635	0.662	0.736	0.729	1.087	1.073
144.5	0.709	0.641	0.675	0.736	0.716	1.080	1.073
145.0	0.702	0.648	0.662	0.743	0.716	1.067	1.067
145.5	0.695	0.655	0.662	0.749	0.722	1.067	1.067
146.0	0.689	0.648	0.668	0.743	0.736	1.046	1.067
146.5	0.682	0.648	0.675	0.736	0.743	1.026	1.060
147.0	0.675	0.655	0.682	0.736	0.736	1.013	1.053
147.5	0.682	0.655	0.682	0.736	0.749	0.992	1.026
148.0	0.695	0.668	0.675	0.743	0.736	0.959	1.013
148.5	0.709	0.689	0.662	0.756	0.729	0.911	0.999
149.0	0.709	0.695	0.662	0.776	0.749	0.871	0.999
149.5	0.716	0.695	0.662	0.817	0.770	0.851	1.006
150.0	0.722	0.675	0.668	0.837	0.790	0.837	1.067
150.5	0.729	0.668	0.682	0.898	0.797	0.797	1.006
151.0	0.729	0.675	0.695	1.013	0.803	0.736	0.837
151.5	0.729	0.689	0.702	1.019	0.817	0.716	0.797
152.0	0.743	0.689	0.695	0.898	0.817	0.722	0.783

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CANDELA TABULATION - (Cont.)

152.5	0.749	0.682	0.682	0.797	0.810	0.729	0.743
153.0	0.749	0.682	0.682	0.776	0.803	0.736	0.675
153.5	0.743	0.716	0.689	0.776	0.803	0.736	0.662
154.0	0.736	0.743	0.695	0.776	0.817	0.770	0.648
154.5	0.736	0.716	0.702	0.756	0.844	0.770	0.655
155.0	0.736	0.702	0.695	0.756	0.857	0.776	0.662
155.5	0.736	0.702	0.702	0.770	0.851	0.824	0.668
156.0	0.729	0.709	0.729	0.776	0.844	0.851	0.662
156.5	0.749	0.709	0.736	0.776	0.844	0.857	0.702
157.0	0.756	0.689	0.729	0.776	0.844	0.864	0.736
157.5	0.743	0.689	0.736	0.783	0.851	0.864	0.743
158.0	0.749	0.695	0.743	0.783	0.851	0.851	0.797
158.5	0.763	0.702	0.743	0.776	0.851	0.844	0.905
159.0	0.749	0.722	0.749	0.790	0.837	0.837	1.013
159.5	0.743	0.729	0.749	0.776	0.824	0.830	1.006
160.0	0.743	0.736	0.749	0.763	0.824	0.830	0.932
160.5	0.749	0.736	0.743	0.763	0.824	0.837	0.891
161.0	0.749	0.736	0.743	0.763	0.830	0.844	0.884
161.5	0.743	0.729	0.736	0.770	0.837	0.851	0.878
162.0	0.736	0.729	0.729	0.763	0.864	0.851	0.857
162.5	0.722	0.729	0.722	0.743	0.932	0.851	0.844
163.0	0.702	0.729	0.722	0.743	0.945	0.844	0.844
163.5	0.689	0.743	0.716	0.743	0.851	0.830	0.837
164.0	0.675	0.756	0.722	0.736	0.810	0.810	0.851
164.5	0.675	0.749	0.729	0.729	0.810	0.803	0.864
165.0	0.675	0.729	0.729	0.736	0.830	0.803	0.864
165.5	0.675	0.722	0.736	0.749	0.851	0.810	0.864
166.0	0.675	0.729	0.736	0.756	0.824	0.878	0.871
166.5	0.682	0.743	0.736	0.763	0.797	0.959	0.878
167.0	0.695	0.763	0.736	0.783	0.810	0.938	0.878
167.5	0.695	0.736	0.702	0.790	0.810	0.844	0.878
168.0	0.689	0.722	0.695	0.763	0.817	0.783	0.884
168.5	0.668	0.722	0.689	0.756	0.810	0.770	0.918
169.0	0.662	0.709	0.695	0.736	0.803	0.763	1.013
169.5	0.668	0.702	0.689	0.743	0.790	0.790	1.100
170.0	0.668	0.689	0.675	0.743	0.770	0.810	1.060
170.5	0.682	0.682	0.675	0.729	0.743	0.810	0.932
171.0	0.689	0.682	0.662	0.709	0.722	0.803	0.864
171.5	0.695	0.695	0.662	0.682	0.716	0.790	0.851
172.0	0.702	0.716	0.662	0.668	0.702	0.776	0.830
172.5	0.709	0.689	0.655	0.662	0.716	0.763	0.824
173.0	0.695	0.668	0.668	0.641	0.743	0.770	0.837
173.5	0.709	0.655	0.709	0.668	0.722	0.783	0.851
174.0	0.729	0.682	0.709	0.675	0.736	0.783	0.871
174.5	0.770	0.729	0.702	0.641	0.729	0.797	0.878
175.0	0.817	0.749	0.736	0.662	0.763	0.817	0.878
175.5	0.857	0.743	0.776	0.662	0.776	0.837	0.898
176.0	0.851	0.756	0.783	0.702	0.770	0.844	0.925
176.5	0.844	0.763	0.776	0.736	0.783	0.851	0.972
177.0	0.837	0.783	0.797	0.776	0.770	0.864	1.067
177.5	0.830	0.776	0.810	0.810	0.763	0.898	1.053
178.0	0.830	0.770	0.790	0.803	0.756	0.891	0.972
178.5	0.844	0.817	0.749	0.803	0.749	0.871	0.918
179.0	0.945	0.884	0.770	0.817	0.756	0.878	0.898
179.5	0.986	0.905	0.783	0.851	0.770	0.878	0.911
180.0	0.925	0.925	0.925	0.925	0.925	0.925	0.925

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	291.86	N.A.	13.40
0-30	614.64	N.A.	28.20
0-40	997.51	N.A.	45.80
0-60	1735.23	N.A.	79.60
0-80	2138.35	N.A.	98.10
0-90	2173.34	N.A.	99.70
10-90	2097.36	N.A.	96.30
20-40	705.65	N.A.	32.40
20-50	1096.3	N.A.	50.30
40-70	997.27	N.A.	45.80
60-80	403.13	N.A.	18.50
70-80	143.58	N.A.	6.60
80-90	34.99	N.A.	1.60
90-110	2.22	N.A.	0.10
90-120	3.16	N.A.	0.10
90-130	3.90	N.A.	0.20
90-150	5.03	N.A.	0.20
90-180	5.68	N.A.	0.30
110-180	3.46	N.A.	0.20
0-180	2179.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	75.98
10-20	215.88
20-30	322.78
30-40	382.87
40-50	390.65
50-60	347.07
60-70	259.55
70-80	143.58
80-90	34.99
90-100	1.09
100-110	1.13
110-120	0.94
120-130	0.74
130-140	0.63
140-150	0.51
150-160	0.35
160-170	0.22
170-180	0.07

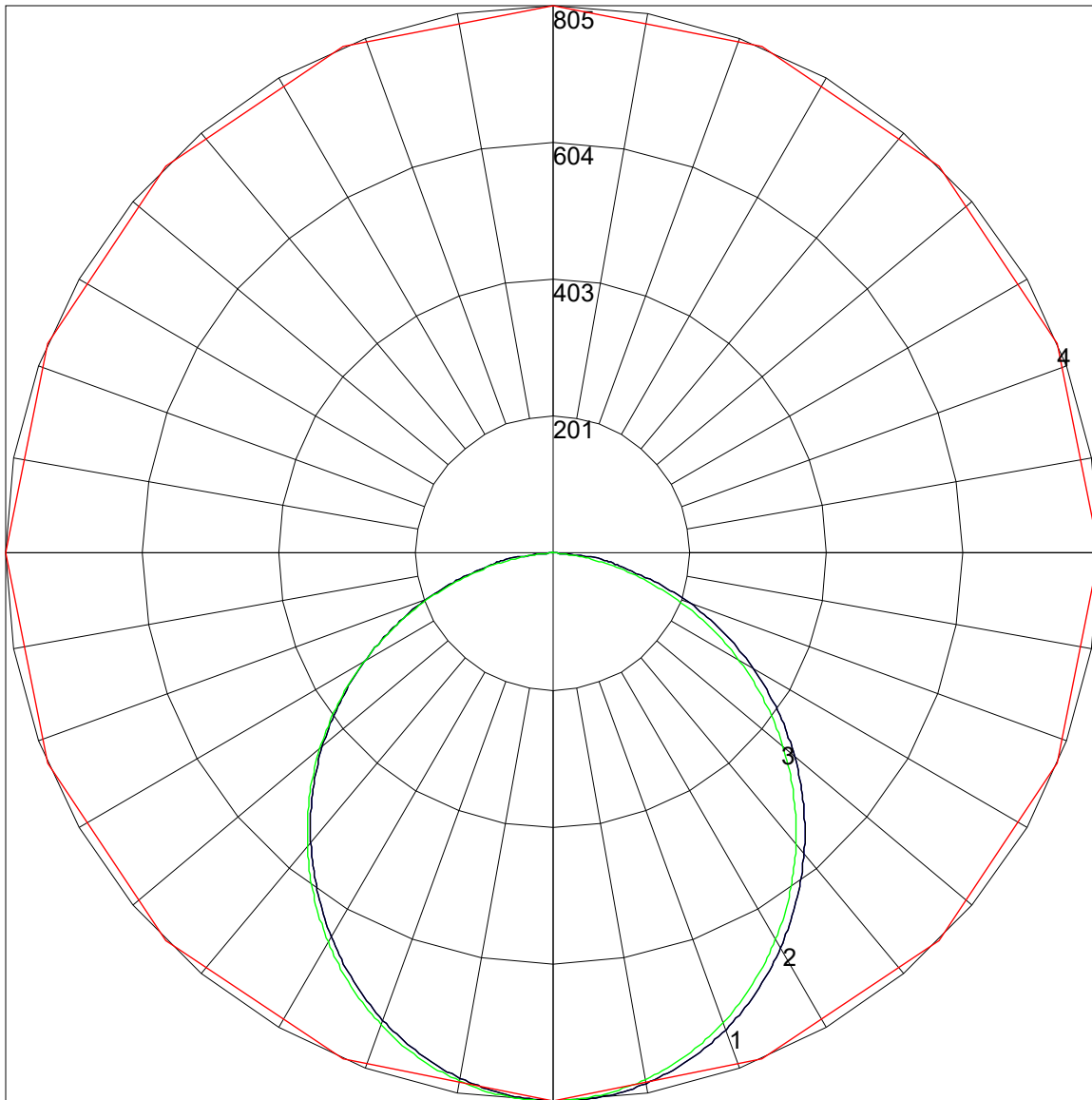
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	78	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	53	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 = 805.201 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.)