



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SSLED2435-XX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 11890707.01P2

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 8/15/2017

[MANUFAC] Lamar Lighting Co Inc

[LUMCAT] SSLED2435-XX

[LUMINAIRE] White formed steel housing, frosted plastic lens enclosure

[LAMP] 56 white LEDs

[BALLAST] One Espen VPL50-xxx-MVHDA-PD-2C driver

[OTHER] 24.8 C, 120.072 V, 0.121493 A, 14.4011 W, 0.987198 PF, 59.9994

[MORE] Hz

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	14.4011
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17020	13574	13314
55	16156	12309	12361
65	14575	10993	11514
75	11622	9819	10808
85	4963	8649	10261

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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	428.991	428.991	428.991	428.991	428.991	428.991	428.991	428.991	428.991	428.991
0.5	426.245	431.330	428.787	426.347	426.754	427.872	431.228	433.668	426.042	431.228
1.0	426.245	431.330	428.787	426.245	426.856	427.974	431.431	433.770	426.042	431.126
1.5	426.144	431.228	428.686	426.245	426.856	428.076	431.431	433.973	425.839	431.126
2.0	426.042	431.228	428.686	426.144	426.754	428.177	431.533	433.973	425.737	430.923
2.5	425.940	431.126	428.482	426.042	426.856	428.076	431.533	433.973	425.432	430.719
3.0	425.839	430.923	428.279	426.042	426.856	428.177	431.533	433.872	425.229	430.516
3.5	425.635	430.719	428.279	425.940	426.754	428.076	431.431	433.872	424.924	430.313
4.0	425.432	430.516	428.076	425.737	426.754	428.076	431.330	433.770	424.619	430.008
4.5	425.229	430.211	427.771	425.534	426.551	427.974	431.228	433.566	424.314	429.703
5.0	424.822	429.906	427.567	425.432	426.551	427.872	431.126	433.363	423.907	429.499
5.5	424.517	429.499	427.161	425.229	426.347	427.669	430.821	433.058	423.602	428.991
6.0	424.212	429.194	426.856	424.822	426.042	427.466	430.618	432.956	423.195	428.686
6.5	423.703	428.686	426.449	424.517	425.839	427.161	430.211	432.550	422.687	428.279
7.0	423.297	428.279	426.042	424.212	425.534	426.856	430.008	432.143	422.280	427.872
7.5	422.788	427.771	425.635	423.805	425.127	426.652	429.601	431.736	421.670	427.364
8.0	422.280	427.262	425.127	423.398	424.822	426.245	429.194	431.330	421.161	426.856
8.5	421.670	426.551	424.517	422.890	424.415	425.940	428.787	430.923	420.551	426.245
9.0	421.060	425.940	424.009	422.483	424.009	425.432	428.279	430.211	419.941	425.635
9.5	420.348	425.330	423.297	421.975	423.602	424.924	427.771	429.703	419.230	425.025
10.0	419.636	424.619	422.687	421.466	423.093	424.517	427.262	429.093	418.518	424.314
10.5	418.924	423.907	422.077	420.958	422.585	424.009	426.652	428.381	417.704	423.602
11.0	418.111	423.093	421.365	420.348	422.077	423.500	425.940	427.669	416.891	422.788
11.5	417.298	422.280	420.653	419.738	421.568	422.890	425.330	426.957	415.976	421.975
12.0	416.382	421.466	419.941	419.128	420.958	422.280	424.517	426.144	415.162	421.161
12.5	415.467	420.450	419.128	418.416	420.348	421.670	423.907	425.330	414.145	420.145
13.0	414.552	419.535	418.416	417.806	419.738	420.958	422.992	424.415	413.230	419.128
13.5	413.434	418.619	417.501	417.094	419.026	420.246	422.178	423.500	412.112	418.111
14.0	412.417	417.501	416.586	416.281	418.314	419.331	421.263	422.585	411.095	416.993
14.5	411.298	416.484	415.671	415.467	417.501	418.619	420.348	421.568	409.875	415.874
15.0	410.180	415.264	414.654	414.654	416.687	417.704	419.331	420.551	408.756	414.756
15.5	408.960	414.145	413.637	413.739	415.772	416.891	418.314	419.433	407.536	413.535
16.0	407.740	412.925	412.519	412.722	414.857	415.874	417.298	418.314	406.214	412.315
16.5	406.519	411.705	411.400	411.705	413.840	414.756	416.179	417.196	404.893	410.892
17.0	405.198	410.383	410.180	410.688	412.824	413.739	415.061	415.976	403.469	409.570
17.5	403.876	409.061	408.960	409.570	411.807	412.722	413.840	414.756	401.944	408.248
18.0	402.452	407.536	407.638	408.350	410.688	411.502	412.722	413.535	400.520	406.824
18.5	401.029	406.113	406.316	407.130	409.672	410.485	411.502	412.214	398.995	405.299
19.0	399.605	404.587	404.893	405.909	408.553	409.366	410.282	410.892	397.368	403.977
19.5	398.080	402.961	403.469	404.689	407.333	408.146	408.960	409.468	395.741	402.351
20.0	396.453	401.435	401.944	403.469	406.214	406.926	407.638	408.045	394.114	400.825
20.5	394.928	399.808	400.520	402.147	404.994	405.706	406.316	406.621	392.386	399.198
21.0	393.199	398.182	398.995	400.927	403.876	404.587	404.893	405.096	390.657	397.673
21.5	391.572	396.555	397.470	399.605	402.656	403.266	403.469	403.469	388.929	396.046
22.0	389.945	394.826	395.945	398.283	401.435	402.045	402.045	401.740	387.200	394.318
22.5	388.217	393.098	394.419	396.961	400.215	400.724	400.520	400.012	385.370	392.691
23.0	386.387	391.369	392.793	395.640	398.893	399.402	398.995	398.385	383.641	390.962
23.5	384.556	389.539	391.267	394.318	397.572	397.978	397.470	396.555	381.811	389.234
24.0	382.726	387.810	389.640	392.894	396.148	396.555	395.843	394.826	379.981	387.607
24.5	380.794	385.878	388.014	391.369	394.724	395.030	394.216	392.996	378.151	385.777
25.0	378.761	384.048	386.387	389.945	393.301	393.606	392.487	391.166	376.219	384.048
25.5	376.727	382.116	384.658	388.319	391.776	392.081	390.759	389.335	374.287	382.218
26.0	374.592	380.082	382.828	386.692	390.352	390.556	389.030	387.403	372.355	380.286
26.5	372.558	378.151	381.099	385.065	388.725	388.929	387.200	385.472	370.321	378.354

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27.0	370.321	376.117	379.167	383.336	387.200	387.302	385.472	383.438	368.389	376.422
27.5	368.186	374.083	377.235	381.709	385.573	385.573	383.540	381.506	366.254	374.490
28.0	365.949	371.948	375.405	379.879	384.048	384.048	381.709	379.472	364.220	372.558
28.5	363.712	369.813	373.372	378.049	382.421	382.319	379.676	377.337	362.085	370.524
29.0	361.475	367.779	371.440	376.320	380.693	380.489	377.744	375.303	360.051	368.491
29.5	359.238	365.644	369.406	374.490	379.066	378.761	375.710	373.168	358.018	366.457
30.0	357.204	363.407	367.271	372.761	377.337	376.930	373.677	370.931	355.679	364.322
30.5	354.866	361.272	365.339	370.931	375.608	375.100	371.643	368.898	353.544	362.288
31.0	352.629	358.933	363.203	369.203	373.778	373.168	369.711	366.661	351.307	360.051
31.5	350.290	356.798	361.170	367.271	371.846	371.236	367.576	364.424	349.070	357.814
32.0	348.053	354.357	359.136	365.339	370.016	369.304	365.542	362.187	346.629	355.577
32.5	345.714	352.120	357.103	363.407	368.084	367.372	363.407	359.848	344.291	353.239
33.0	343.376	349.782	354.866	361.475	366.152	365.440	361.272	357.611	341.952	350.900
33.5	341.037	347.341	352.629	359.340	364.119	363.407	359.238	355.171	339.410	348.460
34.0	338.597	344.698	350.392	357.306	362.187	361.475	357.001	352.832	336.970	346.019
34.5	336.055	342.156	348.053	355.171	360.255	359.543	354.967	350.290	334.428	343.579
35.0	333.513	339.512	345.511	353.035	358.323	357.611	352.730	347.850	331.886	341.139
35.5	330.869	336.766	343.172	350.798	356.391	355.679	350.493	345.409	329.242	338.495
36.0	328.022	334.021	340.529	348.663	354.459	353.645	348.256	342.867	326.598	335.953
36.5	325.175	331.276	338.088	346.426	352.425	351.714	345.816	340.224	323.955	333.411
37.0	322.429	328.429	335.445	344.189	350.493	349.578	343.477	337.783	321.209	330.869
37.5	319.481	325.582	332.903	341.952	348.460	347.443	341.139	335.241	318.464	328.124
38.0	316.634	322.735	330.259	339.715	346.426	345.308	338.698	332.699	315.820	325.480
38.5	313.685	319.989	327.615	337.478	344.393	343.071	336.360	329.954	313.075	322.836
39.0	310.838	317.142	325.073	335.241	342.257	340.834	333.818	327.412	310.228	320.193
39.5	307.889	314.397	322.531	332.903	340.122	338.698	331.377	324.768	307.482	317.549
40.0	304.940	311.550	319.887	330.666	337.885	336.461	328.937	322.124	304.635	314.803
40.5	302.093	308.906	317.447	328.327	335.750	334.123	326.395	319.481	301.890	312.160
41.0	299.145	306.161	314.905	325.988	333.513	331.784	323.955	316.837	299.145	309.414
41.5	296.298	303.517	312.363	323.751	331.276	329.445	321.311	314.092	296.399	306.669
42.0	293.552	300.771	309.923	321.514	329.039	327.107	318.769	311.346	293.654	304.025
42.5	290.807	298.128	307.381	319.176	326.802	324.768	316.329	308.601	290.908	301.280
43.0	287.960	295.382	305.042	316.939	324.565	322.328	313.685	305.856	288.163	298.433
43.5	285.316	292.637	302.500	314.702	322.226	319.989	311.143	303.110	285.418	295.789
44.0	282.469	289.892	300.060	312.465	319.989	317.549	308.499	300.161	282.571	293.044
44.5	279.724	287.248	297.518	310.228	317.752	315.312	305.856	297.416	279.724	290.197
45.0	276.978	284.503	295.077	307.787	315.515	312.872	303.314	294.671	276.978	287.350
45.5	274.131	281.757	292.637	305.449	313.278	310.533	300.670	291.824	274.131	284.503
46.0	271.284	278.808	289.993	303.212	311.041	308.194	298.026	288.875	271.182	281.554
46.5	268.437	276.063	287.451	300.975	308.906	305.856	295.484	286.129	268.234	278.605
47.0	265.488	273.216	284.909	298.636	306.669	303.619	292.840	283.282	265.183	275.656
47.5	262.540	270.369	282.367	296.399	304.534	301.280	290.197	280.334	262.235	272.606
48.0	259.591	267.522	279.825	293.959	302.297	299.043	287.553	277.487	259.082	269.657
48.5	256.540	264.675	277.283	291.620	300.161	296.806	284.909	274.640	256.032	266.607
49.0	253.490	261.929	274.538	289.485	298.128	294.467	282.266	271.691	252.880	263.556
49.5	250.440	259.082	271.996	287.146	295.993	292.230	279.622	268.742	249.728	260.608
50.0	247.287	256.134	269.454	284.909	293.857	289.993	277.080	265.895	246.576	257.557
50.5	244.237	253.287	266.810	282.672	291.722	287.756	274.436	262.946	243.322	254.507
51.0	241.085	250.338	264.166	280.435	289.587	285.519	271.894	259.998	239.966	251.456
51.5	238.035	247.491	261.421	278.097	287.451	283.282	269.250	257.049	236.814	248.203
52.0	234.882	244.440	258.777	275.758	285.214	280.944	266.607	254.100	233.459	245.254
52.5	231.730	241.492	256.032	273.419	283.079	278.605	264.065	251.050	230.205	242.000
53.0	228.680	238.441	253.388	271.081	280.740	276.368	261.319	247.999	226.748	238.746
53.5	225.528	235.289	250.745	268.742	278.503	273.928	258.777	245.050	223.494	235.492
54.0	222.477	232.137	247.999	266.302	276.266	271.589	256.134	242.000	220.139	232.340
54.5	219.325	228.985	245.254	263.963	274.029	269.250	253.592	238.950	216.783	228.985

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55.0	216.173	225.731	242.610	261.624	271.691	266.810	250.846	235.798	213.428	225.629
55.5	213.021	222.579	239.865	259.184	269.454	264.471	248.101	232.645	209.971	222.376
56.0	209.767	219.427	237.221	256.845	267.217	262.133	245.457	229.392	206.615	218.919
56.5	206.513	216.071	234.476	254.405	264.980	259.692	242.610	226.240	203.158	215.665
57.0	203.260	212.818	231.730	251.965	262.641	257.252	239.763	222.884	199.803	212.309
57.5	199.904	209.564	229.087	249.626	260.303	254.812	237.018	219.630	196.345	208.954
58.0	196.549	206.310	226.240	247.186	258.167	252.473	234.069	216.275	192.990	205.598
58.5	193.092	202.955	223.494	244.745	255.829	250.033	231.222	212.919	189.533	202.345
59.0	189.634	199.701	220.647	242.407	253.490	247.491	228.375	209.564	186.177	199.091
59.5	185.974	196.345	217.902	239.966	251.151	245.152	225.528	206.208	182.720	195.939
60.0	182.517	192.990	215.055	237.424	248.813	242.610	222.681	202.853	179.263	192.583
60.5	178.958	189.838	212.309	234.882	246.474	240.170	219.732	199.498	175.908	189.431
61.0	175.298	186.482	209.462	232.544	244.135	237.831	216.987	196.244	172.349	186.177
61.5	171.739	183.127	206.615	230.205	241.797	235.289	214.343	192.888	168.892	183.025
62.0	168.180	179.873	203.768	227.663	239.560	232.950	211.496	189.533	165.434	179.771
62.5	164.621	176.619	201.023	225.324	237.221	230.612	208.852	186.177	161.977	176.518
63.0	160.961	173.366	198.277	222.986	234.781	228.273	206.208	182.822	158.520	173.264
63.5	157.402	170.112	195.634	220.545	232.544	225.935	203.565	179.568	154.961	170.010
64.0	153.945	166.858	192.888	218.207	230.205	223.596	200.921	176.314	151.403	166.756
64.5	150.386	163.503	190.346	215.970	227.866	221.359	198.379	172.959	147.945	163.503
65.0	146.929	160.249	187.804	213.733	225.629	218.919	195.735	169.705	144.387	160.249
65.5	143.471	156.995	185.161	211.394	223.392	216.682	193.092	166.350	140.929	156.893
66.0	140.014	153.741	182.619	208.954	221.156	214.241	190.448	163.096	137.371	153.741
66.5	136.455	150.487	180.077	206.615	218.715	211.801	187.906	159.639	133.812	150.487
67.0	132.998	147.234	177.534	204.175	216.478	209.361	185.262	156.385	130.253	147.132
67.5	129.440	143.878	175.094	201.836	214.241	206.920	182.619	152.928	126.796	143.980
68.0	125.982	140.523	172.552	199.396	211.903	204.582	180.077	149.776	123.237	140.726
68.5	122.322	137.371	170.112	197.057	209.462	202.040	177.433	146.420	119.576	137.472
69.0	118.763	134.015	167.570	194.617	207.225	199.701	174.891	143.166	115.916	134.320
69.5	115.204	130.761	165.129	192.177	204.887	197.362	172.450	140.014	112.357	131.168
70.0	111.544	127.711	162.587	189.736	202.548	195.024	169.807	136.659	108.697	128.016
70.5	107.883	124.559	160.045	187.499	200.209	192.583	167.265	133.507	105.138	124.864
71.0	104.223	121.508	157.402	185.059	197.871	190.245	164.621	130.355	101.508	121.610
71.5	100.603	118.458	154.860	182.720	195.634	188.008	161.977	127.304	97.837	118.560
72.0	96.871	115.408	152.318	180.382	193.295	185.669	159.944	124.050	94.248	115.509
72.5	93.221	112.459	149.674	178.043	191.058	183.330	157.402	121.000	90.699	112.459
73.0	89.550	109.510	147.132	175.704	188.719	180.890	154.758	117.950	87.100	109.408
73.5	85.971	106.561	144.590	173.366	186.482	178.653	152.216	114.899	83.582	106.460
74.0	82.351	103.714	141.946	171.129	184.144	176.213	149.674	111.950	80.023	103.511
74.5	78.762	100.837	139.404	168.790	181.907	173.976	147.030	109.002	76.555	100.542
75.0	75.244	97.990	136.862	166.451	179.568	171.535	144.488	106.053	73.119	97.715
75.5	72.081	95.214	134.320	164.113	177.331	169.298	141.946	103.308	69.977	94.939
76.0	68.573	92.468	131.982	161.876	175.094	166.960	139.404	100.400	66.499	92.123
76.5	65.116	89.754	129.338	159.639	172.857	164.621	136.862	97.644	63.073	89.438
77.0	61.659	87.069	126.999	157.300	170.620	162.181	134.422	94.939	59.656	86.815
77.5	58.263	84.507	124.559	155.063	168.383	159.944	131.982	92.275	56.290	84.171
78.0	54.908	81.924	122.119	152.724	166.248	157.605	129.541	89.693	52.935	81.690
78.5	51.552	79.311	119.678	150.589	164.011	155.368	127.101	87.120	49.600	79.240
79.0	48.268	76.779	117.340	148.250	161.774	153.029	124.762	84.507	46.326	76.738
79.5	45.014	74.115	115.001	146.115	159.537	150.792	122.424	81.812	43.072	74.318
80.0	41.791	71.868	112.561	143.878	157.300	148.555	120.085	79.077	39.900	72.112
80.5	38.618	69.234	110.222	141.641	155.165	146.217	117.645	76.413	36.758	69.519
81.0	35.466	66.601	107.985	139.506	152.928	143.980	115.408	73.871	33.666	66.947
81.5	32.406	64.018	105.646	137.269	150.589	141.743	113.069	71.471	30.697	64.405
82.0	29.365	61.486	103.308	135.032	148.352	139.404	110.730	68.848	27.779	61.863
82.5	26.447	58.954	100.989	132.795	146.115	137.167	108.392	66.275	24.973	59.392

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CANDELA TABULATION - (Cont.)

83.0	23.580	56.494	98.681	130.456	143.777	134.930	106.155	63.754	22.217	56.941
83.5	20.824	54.084	96.414	128.219	141.438	132.592	103.816	61.263	19.584	54.582
84.0	18.170	51.725	94.166	125.982	139.201	130.355	101.518	58.843	17.052	52.254
84.5	15.628	49.407	91.919	123.745	136.964	128.118	99.281	56.463	14.652	49.986
85.0	13.259	47.160	89.682	121.508	134.727	125.779	97.003	54.135	12.364	47.790
85.5	11.002	44.973	87.466	119.271	132.490	123.542	94.746	51.908	10.229	45.644
86.0	8.897	42.858	85.341	117.136	130.253	121.305	92.519	49.712	8.236	43.560
86.5	7.006	40.794	83.195	114.899	128.118	119.068	90.313	47.597	6.436	41.526
87.0	5.287	38.771	81.111	112.764	125.881	116.831	88.157	45.512	4.820	39.554
87.5	3.793	36.798	78.945	110.629	123.745	114.696	85.981	43.458	3.416	37.632
88.0	2.501	34.887	76.881	108.493	121.610	112.561	83.805	41.465	2.237	35.761
88.5	1.464	33.006	74.898	106.358	119.373	110.324	81.690	39.493	1.312	33.931
89.0	0.661	31.165	72.986	104.426	117.441	108.188	79.575	37.561	0.651	32.131
89.5	0.122	29.396	71.288	102.392	115.408	106.053	77.460	35.629	0.224	30.382
90.0	0.000	27.708	69.367	100.339	113.272	104.121	75.549	33.870	0.000	28.715
90.5	0.000	26.020	67.394	98.295	111.137	101.986	73.769	32.151	0.000	27.057
91.0	0.000	24.353	65.381	96.180	109.103	99.830	71.888	30.331	0.000	25.420
91.5	0.000	22.705	63.357	94.014	106.866	97.664	69.783	28.582	0.000	23.854
92.0	0.000	21.139	61.334	91.858	104.629	95.427	67.669	26.884	0.000	22.319
92.5	0.000	19.614	59.300	89.652	102.291	93.140	65.533	25.207	0.000	20.824
93.0	0.000	18.089	57.287	87.456	99.942	90.892	63.469	23.620	0.000	19.401
93.5	0.000	16.635	55.294	85.310	97.685	88.655	61.395	22.034	0.000	17.997
94.0	0.000	15.171	53.342	83.083	95.366	86.459	59.341	20.478	0.000	16.625
94.5	0.000	13.737	51.400	80.948	93.140	84.293	57.307	18.963	0.000	15.262
95.0	0.000	12.324	49.478	78.843	90.933	82.097	55.314	17.459	0.000	13.910
95.5	0.000	10.910	47.566	76.749	88.737	80.013	53.352	15.964	0.000	12.568
96.0	0.000	9.517	45.716	74.684	86.581	77.928	51.400	14.500	0.000	11.256
96.5	0.000	8.114	43.845	73.017	84.466	75.884	49.457	13.025	0.000	9.944
97.0	0.000	6.721	42.004	70.963	82.361	73.922	47.546	11.571	0.000	8.612
97.5	0.000	5.308	40.184	68.929	80.246	72.092	45.644	10.087	0.000	7.280
98.0	0.000	3.894	38.334	66.875	78.192	70.038	43.753	8.633	0.000	5.979
98.5	0.000	2.512	36.483	64.852	76.077	67.933	41.852	7.148	0.000	4.667
99.0	0.000	1.230	34.653	62.778	74.064	65.859	39.971	5.674	0.000	3.376
99.5	0.000	0.224	32.802	60.714	72.224	63.754	38.069	4.210	0.000	2.135
100.0	0.000	0.000	30.962	58.619	70.078	61.629	36.178	2.766	0.000	0.996
100.5	0.000	0.000	29.091	56.534	67.933	59.504	34.277	1.383	0.000	0.244
101.0	0.000	0.000	27.240	54.460	65.808	57.389	32.365	0.366	0.000	0.102
101.5	0.000	0.000	25.380	52.355	63.662	55.253	30.474	0.000	0.000	0.051
102.0	0.000	0.000	23.488	50.271	61.517	53.128	28.542	0.000	0.000	0.020
102.5	0.000	0.000	21.617	48.197	59.351	51.023	26.630	0.000	0.000	0.000
103.0	0.000	0.000	19.716	46.102	57.206	48.908	24.729	0.000	0.000	0.000
103.5	0.000	0.000	17.804	44.028	55.060	46.783	22.787	0.000	0.000	0.000
104.0	0.000	0.000	15.872	41.953	52.904	44.668	20.834	0.000	0.000	0.000
104.5	0.000	0.000	13.930	39.879	50.749	42.564	18.872	0.000	0.000	0.000
105.0	0.000	0.000	11.958	37.764	48.573	40.459	16.899	0.000	0.000	0.000
105.5	0.000	0.000	9.955	35.670	46.427	38.334	14.917	0.000	0.000	0.000
106.0	0.000	0.000	7.951	33.555	44.241	36.198	12.893	0.000	0.000	0.000
106.5	0.000	0.000	5.948	31.430	42.055	34.073	10.859	0.000	0.000	0.000
107.0	0.000	0.000	4.016	29.274	39.849	31.928	8.795	0.000	0.000	0.000
107.5	0.000	0.000	2.288	27.098	37.622	29.762	6.741	0.000	0.000	0.000
108.0	0.000	0.000	0.996	24.902	35.375	27.566	4.708	0.000	0.000	0.000
108.5	0.000	0.000	0.183	22.695	33.097	25.359	2.776	0.000	0.000	0.000
109.0	0.000	0.000	0.000	20.438	30.819	23.112	1.271	0.000	0.000	0.000
109.5	0.000	0.000	0.000	18.170	28.511	20.865	0.346	0.000	0.000	0.000
110.0	0.000	0.000	0.000	15.872	26.203	18.587	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	13.554	23.854	16.289	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	11.236	21.516	13.971	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	8.907	19.167	11.622	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	6.589	16.777	9.273	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	4.382	14.367	6.945	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	2.532	11.958	4.677	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	1.210	9.548	2.674	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.295	7.158	1.291	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	4.850	0.325	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	2.837	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	1.434	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.397	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	428.991	428.991	428.991	428.991	428.991	428.991	428.991
0.5	428.686	426.347	426.856	427.771	430.923	433.363	426.245
1.0	428.686	426.347	426.754	427.771	430.719	433.058	426.245
1.5	428.584	426.245	426.754	427.567	430.516	432.753	426.144
2.0	428.482	426.144	426.754	427.466	430.313	432.448	426.042
2.5	428.279	426.144	426.551	427.262	430.109	432.143	425.940
3.0	428.076	425.940	426.551	427.161	429.804	431.838	425.839
3.5	427.974	425.737	426.347	427.059	429.499	431.431	425.635
4.0	427.669	425.534	426.144	426.754	429.194	431.024	425.432
4.5	427.466	425.330	425.940	426.551	428.991	430.618	425.229
5.0	427.161	425.127	425.839	426.245	428.482	430.109	424.822
5.5	426.754	424.822	425.534	425.940	428.076	429.601	424.517
6.0	426.551	424.517	425.127	425.534	427.669	428.991	424.212
6.5	426.144	424.314	424.720	425.127	427.161	428.482	423.703
7.0	425.737	423.805	424.314	424.720	426.652	427.872	423.297
7.5	425.330	423.398	423.907	424.212	426.144	427.161	422.788
8.0	424.822	422.992	423.500	423.703	425.534	426.551	422.280
8.5	424.314	422.585	423.093	423.093	424.822	425.839	421.670
9.0	423.703	422.077	422.483	422.585	424.212	425.127	421.060
9.5	423.195	421.568	421.975	422.077	423.602	424.314	420.348
10.0	422.585	421.060	421.466	421.466	422.788	423.602	419.636
10.5	421.873	420.450	420.958	420.856	422.077	422.788	418.924
11.0	421.263	419.941	420.450	420.246	421.466	421.975	418.111
11.5	420.450	419.331	419.941	419.738	420.653	421.060	417.298
12.0	419.636	418.619	419.331	419.128	419.941	420.145	416.382

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CANDELA TABULATION - (Cont.)

12.5	418.823	418.009	418.823	418.518	419.128	419.230	415.467
13.0	417.908	417.196	418.111	417.806	418.314	418.111	414.552
13.5	416.891	416.382	417.399	416.993	417.399	417.094	413.434
14.0	415.976	415.467	416.586	416.179	416.586	416.077	412.417
14.5	414.959	414.654	415.772	415.366	415.569	414.959	411.298
15.0	413.942	413.637	414.756	414.451	414.552	413.739	410.180
15.5	412.722	412.722	413.840	413.535	413.434	412.417	408.960
16.0	411.705	411.705	412.925	412.519	412.315	411.197	407.740
16.5	410.383	410.587	411.908	411.400	411.095	409.773	406.519
17.0	409.163	409.570	410.892	410.282	409.875	408.350	405.198
17.5	407.943	408.451	409.875	409.061	408.553	406.926	403.876
18.0	406.621	407.435	408.756	407.841	407.130	405.401	402.452
18.5	405.299	406.214	407.638	406.621	405.706	403.774	401.029
19.0	403.876	405.096	406.418	405.401	404.181	402.147	399.605
19.5	402.554	403.876	405.299	404.079	402.656	400.520	398.080
20.0	401.130	402.554	403.977	402.757	401.130	398.792	396.453
20.5	399.707	401.232	402.656	401.334	399.503	397.063	394.928
21.0	398.283	400.012	401.334	399.910	397.877	395.335	393.199
21.5	396.758	398.588	400.012	398.487	396.250	393.504	391.572
22.0	395.233	397.165	398.588	396.961	394.521	391.674	389.945
22.5	393.809	395.741	397.266	395.538	392.894	389.844	388.217
23.0	392.182	394.318	395.741	393.911	391.166	387.912	386.387
23.5	390.657	392.894	394.318	392.386	389.437	386.082	384.556
24.0	389.030	391.471	392.894	390.861	387.708	384.048	382.726
24.5	387.505	390.047	391.471	389.335	385.878	382.116	380.794
25.0	385.980	388.522	390.047	387.708	384.150	380.184	378.761
25.5	384.353	387.098	388.624	386.285	382.319	378.252	376.727
26.0	382.726	385.675	387.200	384.658	380.489	376.219	374.592
26.5	381.099	384.251	385.878	383.133	378.761	374.185	372.558
27.0	379.371	382.828	384.455	381.608	376.930	372.151	370.321
27.5	377.540	381.404	383.031	380.082	375.202	370.118	368.186
28.0	375.914	379.981	381.608	378.557	373.372	368.084	365.949
28.5	374.185	378.354	380.184	377.134	371.643	366.051	363.712
29.0	372.253	376.727	378.659	375.507	369.813	364.017	361.475
29.5	370.321	374.998	377.134	373.880	367.982	361.983	359.238
30.0	368.287	373.372	375.608	372.253	366.152	359.848	357.204
30.5	366.356	371.643	374.083	370.524	364.220	357.713	354.866
31.0	364.322	369.813	372.355	368.898	362.288	355.577	352.629
31.5	362.187	367.982	370.626	367.169	360.356	353.340	350.290
32.0	360.051	366.152	368.898	365.339	358.323	351.205	348.053
32.5	358.018	364.220	367.169	363.610	356.289	348.968	345.714
33.0	355.882	362.390	365.440	361.678	354.052	346.629	343.376
33.5	353.747	360.458	363.508	359.746	351.917	344.291	341.037
34.0	351.612	358.424	361.577	357.713	349.680	341.850	338.597
34.5	349.375	356.493	359.848	355.679	347.545	339.308	336.055
35.0	347.138	354.459	357.713	353.645	345.104	336.868	333.513
35.5	344.901	352.527	355.679	351.510	342.766	334.224	330.869
36.0	342.461	350.290	353.645	349.273	340.325	331.682	328.022
36.5	340.122	348.155	351.510	347.036	337.885	329.039	325.175
37.0	337.682	345.918	349.273	344.799	335.445	326.497	322.429
37.5	335.241	343.579	347.138	342.461	332.903	323.853	319.481
38.0	332.801	341.240	344.901	340.122	330.462	321.108	316.634
38.5	330.259	339.003	342.664	337.885	327.920	318.464	313.685
39.0	327.819	336.665	340.427	335.445	325.378	315.820	310.838
39.5	325.277	334.428	338.292	333.208	322.836	313.075	307.889
40.0	322.735	332.191	336.156	330.869	320.396	310.431	304.940

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40.5	320.294	329.852	334.021	328.734	317.752	307.686	302.093
41.0	317.854	327.717	331.886	326.497	315.312	304.940	299.145
41.5	315.414	325.582	329.852	324.361	312.872	302.297	296.298
42.0	312.973	323.446	327.819	322.226	310.431	299.551	293.552
42.5	310.635	321.209	325.785	319.989	307.991	296.806	290.807
43.0	308.093	319.074	323.751	317.854	305.449	294.061	287.960
43.5	305.550	316.837	321.718	315.719	303.008	291.315	285.316
44.0	303.110	314.702	319.684	313.482	300.568	288.671	282.469
44.5	300.568	312.465	317.447	311.346	298.128	285.926	279.724
45.0	297.924	310.024	315.414	309.211	295.687	283.181	276.978
45.5	295.281	307.787	313.177	306.872	293.145	280.435	274.131
46.0	292.739	305.449	311.041	304.534	290.502	277.690	271.284
46.5	289.993	303.008	308.703	302.297	288.061	274.843	268.437
47.0	287.350	300.466	306.466	299.958	285.519	271.996	265.488
47.5	284.604	298.128	304.127	297.518	282.876	269.250	262.540
48.0	281.859	295.687	301.788	296.196	280.130	266.200	259.591
48.5	279.215	293.145	299.551	292.637	277.487	263.251	256.540
49.0	276.470	290.705	297.111	290.197	274.741	260.303	253.490
49.5	273.623	288.265	294.772	287.756	271.996	257.252	250.440
50.0	270.877	285.824	292.332	285.214	269.250	254.202	247.287
50.5	268.234	283.282	289.993	282.672	266.505	251.151	244.237
51.0	265.387	280.944	287.553	280.130	263.658	247.898	241.085
51.5	262.641	278.402	285.113	277.690	260.913	244.847	238.035
52.0	259.794	275.860	282.774	275.250	257.964	241.695	234.882
52.5	256.947	273.419	280.334	272.606	255.219	238.441	231.730
53.0	254.202	270.877	277.995	270.166	252.270	235.289	228.680
53.5	251.253	268.437	275.555	267.522	249.423	232.137	225.528
54.0	248.508	265.895	273.114	265.082	246.677	228.883	222.477
54.5	245.661	263.353	270.674	262.540	243.830	225.629	219.325
55.0	242.712	260.709	268.335	259.998	240.882	222.477	216.173
55.5	239.763	258.167	265.895	257.557	238.136	219.224	213.021
56.0	236.916	255.625	263.455	255.117	235.187	215.970	209.767
56.5	234.069	253.185	261.116	252.575	232.340	212.818	206.513
57.0	231.120	250.643	258.676	250.135	229.697	209.564	203.260
57.5	228.375	247.999	256.235	247.694	226.748	206.310	199.904
58.0	225.528	245.457	253.897	245.152	224.003	203.056	196.549
58.5	222.782	243.017	251.456	242.610	221.156	199.803	193.092
59.0	220.037	240.577	249.118	240.170	218.308	196.650	189.634
59.5	217.393	238.136	246.779	237.729	215.563	193.397	185.974
60.0	214.750	235.798	244.542	235.289	212.919	190.143	182.517
60.5	212.004	233.357	242.305	232.849	210.276	186.889	178.958
61.0	209.361	231.120	240.068	230.510	207.429	183.737	175.298
61.5	206.717	228.883	237.831	228.273	204.785	180.483	171.739
62.0	204.175	226.545	235.798	225.935	202.243	177.229	168.180
62.5	201.429	224.206	233.561	223.698	199.599	174.077	164.621
63.0	198.786	221.969	231.324	221.359	197.057	170.824	160.961
63.5	196.142	219.630	229.087	219.224	194.413	167.671	157.402
64.0	193.397	217.393	226.951	216.987	191.871	164.519	153.945
64.5	190.753	215.055	224.714	214.648	189.329	161.367	150.386
65.0	188.109	212.716	222.274	212.411	186.686	158.113	146.929
65.5	185.466	210.377	219.935	210.174	184.245	154.860	143.471
66.0	182.822	208.039	217.698	208.242	181.703	151.708	140.014
66.5	180.178	205.700	215.461	205.700	179.161	148.657	136.455
67.0	177.738	203.361	213.224	203.260	176.721	145.505	132.998
67.5	175.094	201.124	210.987	201.023	174.281	142.353	129.440
68.0	172.552	198.684	208.649	198.786	171.739	139.303	125.982

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CANDELA TABULATION - (Cont.)

68.5	170.112	196.345	206.412	196.447	169.197	136.252	122.322
69.0	167.570	194.007	204.073	194.108	166.756	133.100	118.763
69.5	165.129	191.668	201.836	191.668	164.214	129.948	115.204
70.0	162.689	189.329	199.498	189.329	161.774	126.898	111.544
70.5	160.147	186.889	197.159	186.889	159.232	123.847	107.883
71.0	157.707	184.550	194.922	184.652	156.690	120.797	104.223
71.5	155.165	182.110	192.583	182.212	154.148	117.746	100.603
72.0	152.724	179.873	190.245	179.873	151.606	114.798	96.871
72.5	150.284	177.534	188.008	177.636	149.166	111.747	93.221
73.0	147.742	175.196	185.771	175.298	146.725	108.900	89.550
73.5	145.200	172.857	183.534	173.061	144.285	106.053	85.971
74.0	142.658	170.519	181.195	170.722	141.845	103.104	82.351
74.5	140.218	168.282	179.060	168.485	139.404	100.369	78.762
75.0	137.676	166.045	176.823	166.248	137.167	97.593	75.244
75.5	135.235	163.706	174.586	164.011	134.727	94.929	72.081
76.0	132.693	161.469	172.450	161.876	132.388	92.275	68.573
76.5	130.355	159.232	170.315	159.639	130.050	89.662	65.116
77.0	127.813	157.198	168.180	157.402	127.711	87.140	61.659
77.5	125.474	155.063	166.146	155.266	125.372	84.680	58.263
78.0	123.034	152.826	164.011	153.131	123.135	82.250	54.908
78.5	120.695	150.792	161.876	150.894	120.797	79.880	51.552
79.0	118.458	148.555	159.639	148.759	118.458	77.379	48.268
79.5	116.018	146.420	157.605	146.624	116.221	74.888	45.014
80.0	113.679	144.285	155.470	144.590	113.984	72.712	41.791
80.5	111.442	142.048	153.233	142.353	111.747	70.333	38.618
81.0	109.103	139.913	151.199	140.218	109.510	67.892	35.466
81.5	106.765	137.777	148.962	137.981	107.171	65.432	32.406
82.0	104.528	135.540	146.827	135.845	105.036	63.032	29.365
82.5	102.291	133.405	144.590	133.710	102.799	60.673	26.447
83.0	100.084	131.270	142.556	131.473	100.623	58.375	23.580
83.5	97.888	129.033	140.421	129.338	98.559	56.087	20.824
84.0	95.773	126.999	138.286	127.203	96.454	53.891	18.170
84.5	93.617	124.864	136.049	125.067	94.299	51.735	15.628
85.0	91.523	122.729	134.015	122.932	92.265	49.641	13.259
85.5	89.367	120.593	131.880	120.898	90.201	47.576	11.002
86.0	87.283	118.458	129.745	118.763	88.086	45.553	8.897
86.5	85.249	116.323	127.711	116.628	86.042	43.591	7.006
87.0	83.093	114.187	125.576	114.492	83.978	41.679	5.287
87.5	81.009	112.052	123.440	112.357	81.975	39.798	3.793
88.0	78.986	110.019	121.203	110.222	79.952	37.947	2.501
88.5	76.952	107.782	119.068	108.188	77.918	36.107	1.464
89.0	74.867	105.646	116.933	106.053	75.803	34.317	0.661
89.5	73.210	103.613	114.798	103.816	73.800	32.568	0.122
90.0	71.227	101.447	112.764	101.782	72.214	30.901	0.000
90.5	69.306	99.495	110.730	99.759	70.302	29.223	0.000
91.0	67.343	97.451	108.493	97.705	68.299	27.566	0.000
91.5	65.360	95.387	106.358	95.570	66.275	25.969	0.000
92.0	63.357	93.201	104.121	93.465	64.303	24.424	0.000
92.5	61.405	91.096	101.986	91.340	62.361	22.939	0.000
93.0	59.504	88.971	99.820	89.225	60.449	21.465	0.000
93.5	57.592	86.937	97.756	87.181	58.568	20.051	0.000
94.0	55.721	84.924	95.671	85.188	56.707	18.679	0.000
94.5	53.850	82.890	93.597	83.124	54.887	17.296	0.000
95.0	52.010	80.877	91.513	81.151	53.077	15.944	0.000
95.5	50.200	78.874	89.408	79.097	51.288	14.612	0.000
96.0	48.390	76.921	87.384	77.165	49.518	13.269	0.000

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CANDELA TABULATION - (Cont.)

96.5	46.590	74.878	85.300	75.173	47.749	11.947	0.000
97.0	44.770	73.129	83.226	73.393	45.980	10.626	0.000
97.5	42.991	71.349	81.192	71.624	44.231	9.294	0.000
98.0	41.201	69.377	79.179	69.682	42.482	7.962	0.000
98.5	39.411	67.394	77.115	67.709	40.743	6.630	0.000
99.0	37.642	65.432	75.071	65.767	38.995	5.298	0.000
99.5	35.863	63.418	73.424	63.794	37.246	3.976	0.000
100.0	34.094	61.425	71.380	61.842	35.517	2.684	0.000
100.5	32.334	59.422	69.336	59.870	33.758	1.393	0.000
101.0	30.586	57.450	67.262	57.917	32.029	0.224	0.000
101.5	28.837	55.487	65.218	55.975	30.281	0.000	0.000
102.0	27.078	53.515	63.195	54.033	28.532	0.000	0.000
102.5	25.349	51.542	61.181	52.101	26.803	0.000	0.000
103.0	23.600	49.580	59.137	50.159	25.044	0.000	0.000
103.5	21.841	47.627	57.104	48.217	23.295	0.000	0.000
104.0	20.062	45.675	55.080	46.285	21.526	0.000	0.000
104.5	18.282	43.723	53.077	44.343	19.757	0.000	0.000
105.0	16.462	41.740	51.064	42.370	17.987	0.000	0.000
105.5	14.632	39.767	49.010	40.388	16.198	0.000	0.000
106.0	12.781	37.805	46.956	38.415	14.378	0.000	0.000
106.5	10.921	35.812	44.912	36.432	12.568	0.000	0.000
107.0	9.009	33.829	42.838	34.419	10.727	0.000	0.000
107.5	7.077	31.785	40.774	32.395	8.887	0.000	0.000
108.0	5.176	29.742	38.690	30.382	7.026	0.000	0.000
108.5	3.305	27.698	36.595	28.349	5.155	0.000	0.000
109.0	1.627	25.624	34.500	26.315	3.315	0.000	0.000
109.5	0.488	23.549	32.385	24.251	1.566	0.000	0.000
110.0	0.102	21.424	30.260	22.177	0.305	0.000	0.000
110.5	0.000	19.289	28.135	20.123	0.000	0.000	0.000
111.0	0.000	17.143	25.959	17.967	0.000	0.000	0.000
111.5	0.000	14.988	23.793	15.842	0.000	0.000	0.000
112.0	0.000	12.812	21.607	13.707	0.000	0.000	0.000
112.5	0.000	10.615	19.411	11.551	0.000	0.000	0.000
113.0	0.000	8.409	17.174	9.365	0.000	0.000	0.000
113.5	0.000	6.203	14.927	7.179	0.000	0.000	0.000
114.0	0.000	4.057	12.680	4.993	0.000	0.000	0.000
114.5	0.000	2.095	10.402	2.888	0.000	0.000	0.000
115.0	0.000	0.661	8.134	1.098	0.000	0.000	0.000
115.5	0.000	0.041	5.847	0.132	0.000	0.000	0.000
116.0	0.000	0.000	3.620	0.000	0.000	0.000	0.000
116.5	0.000	0.000	1.657	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	157.74	N.A.	10.50
0-30	336.03	N.A.	22.40
0-40	553.20	N.A.	36.90
0-60	1001.48	N.A.	66.80
0-80	1328.54	N.A.	88.60
0-90	1421.69	N.A.	94.90
10-90	1381.01	N.A.	92.10
20-40	395.46	N.A.	26.40
20-50	625.39	N.A.	41.70
40-70	634.29	N.A.	42.30
60-80	327.06	N.A.	21.80
70-80	141.05	N.A.	9.40
80-90	93.15	N.A.	6.20
90-110	74.78	N.A.	5.00
90-120	77.04	N.A.	5.10
90-130	77.04	N.A.	5.10
90-150	77.04	N.A.	5.10
90-180	77.04	N.A.	5.10
110-180	2.26	N.A.	0.20
0-180	1498.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.68
10-20	117.07
20-30	178.29
30-40	217.17
40-50	229.93
50-60	218.34
60-70	186.01
70-80	141.05
80-90	93.15
90-100	53.17
100-110	21.61
110-120	2.26
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

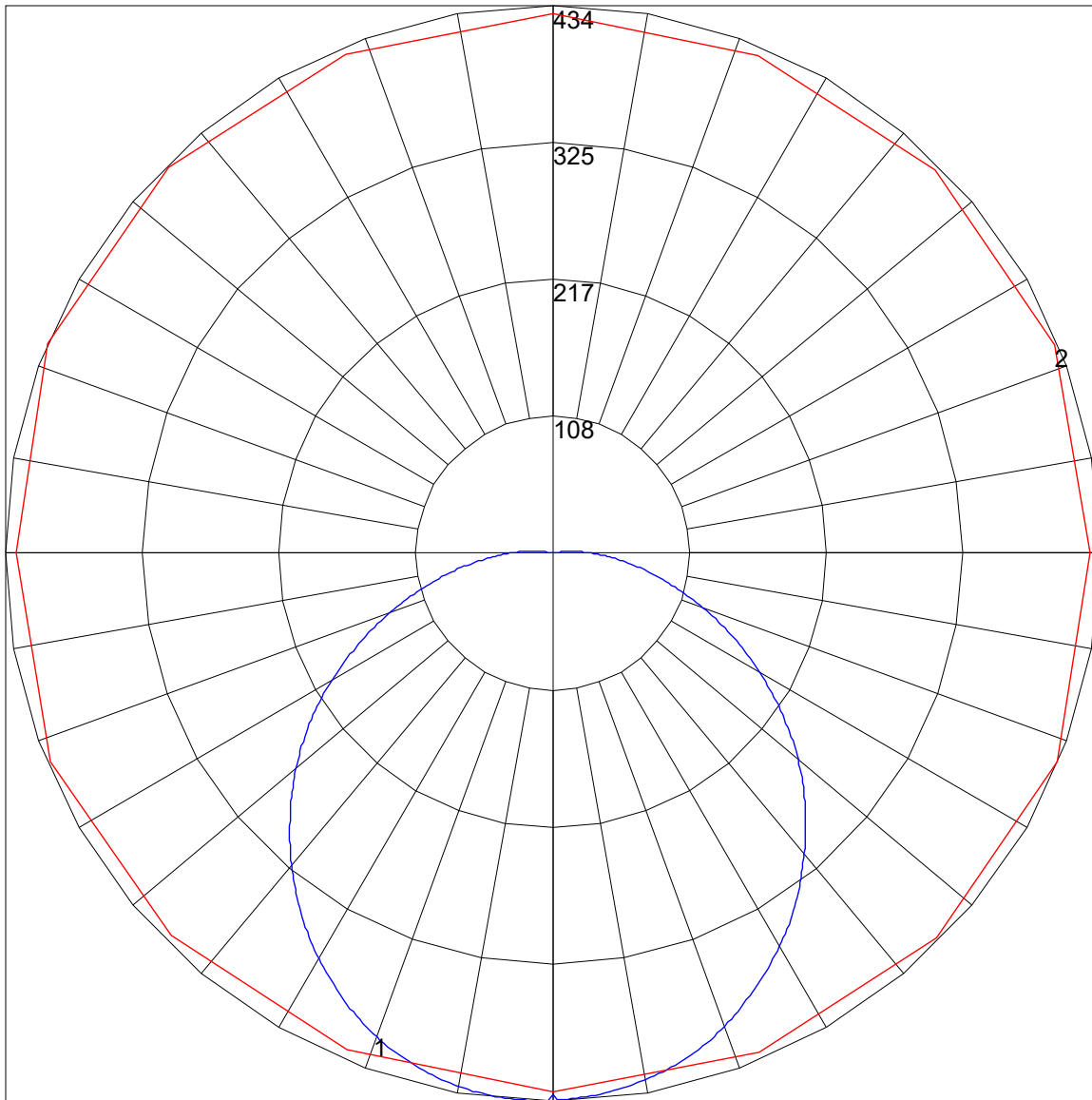
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	114	114	114	114	108	108	108	103	103	103	97	97	97	95
1	105	100	94	90	102	97	92	88	91	88	84	87	83	81	82	80	77	75
2	95	86	78	71	92	83	76	70	79	73	68	75	70	65	71	67	63	61
3	86	75	66	59	83	73	64	58	69	62	56	65	59	54	62	57	53	50
4	79	66	56	49	76	64	55	48	61	53	47	58	51	46	55	49	45	42
5	72	58	49	42	70	57	48	41	54	46	41	52	45	40	49	43	39	36
6	66	52	43	36	64	51	42	36	49	41	35	47	40	35	45	39	34	32
7	62	47	38	32	59	46	38	32	44	37	31	42	36	30	41	35	30	28
8	57	43	34	28	55	42	34	28	41	33	28	39	32	27	37	31	27	25
9	53	40	31	25	52	39	31	25	37	30	25	36	29	24	34	28	24	22
10	50	37	28	23	49	36	28	23	34	27	23	33	27	22	32	26	22	20

POLAR GRAPH



Maximum Candela = 433.973 Located At Horizontal Angle = 157.5, Vertical Angle = 1.5
1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1.5) (Through Max. Cd.)