



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SSLED2450-XX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 11890707.01P1
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 8/15/2017
 [MANUFAC] Lamar Lighting Co Inc
 [LUMCAT] SSLED2450-XX
 [LUMINAIRE] White formed steel housing, frosted plastic lens enclosure
 [LAMP] 56 white LEDs
 [BALLAST] One Espen VPL50-xxx-MVHDA-PD-2C driver
 [OTHER] 24.9 C, 120.072 V, 0.1218 A, 14.43 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	1615
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	14.43
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	18339	14627	14347
55	17408	13263	13319
65	15705	11846	12407
75	12523	10581	11646
85	5348	9320	11057

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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	462.258	462.258	462.258	462.258	462.258	462.258	462.258	462.258	462.258	462.258
0.5	459.300	464.778	462.039	459.409	459.848	461.053	464.669	467.298	459.081	464.669
1.0	459.300	464.778	462.039	459.300	459.957	461.162	464.888	467.408	459.081	464.559
1.5	459.190	464.669	461.929	459.300	459.957	461.272	464.888	467.627	458.862	464.559
2.0	459.081	464.669	461.929	459.190	459.848	461.382	464.997	467.627	458.752	464.340
2.5	458.971	464.559	461.710	459.081	459.957	461.272	464.997	467.627	458.423	464.121
3.0	458.862	464.340	461.491	459.081	459.957	461.382	464.997	467.517	458.204	463.902
3.5	458.642	464.121	461.491	458.971	459.848	461.272	464.888	467.517	457.875	463.682
4.0	458.423	463.902	461.272	458.752	459.848	461.272	464.778	467.408	457.547	463.354
4.5	458.204	463.573	460.943	458.533	459.629	461.162	464.669	467.189	457.218	463.025
5.0	457.766	463.244	460.724	458.423	459.629	461.053	464.559	466.969	456.780	462.806
5.5	457.437	462.806	460.286	458.204	459.409	460.834	464.230	466.641	456.451	462.258
6.0	457.108	462.477	459.957	457.766	459.081	460.615	464.011	466.531	456.013	461.929
6.5	456.561	461.929	459.519	457.437	458.862	460.286	463.573	466.093	455.465	461.491
7.0	456.122	461.491	459.081	457.108	458.533	459.957	463.354	465.655	455.027	461.053
7.5	455.575	460.943	458.642	456.670	458.095	459.738	462.915	465.216	454.369	460.505
8.0	455.027	460.395	458.095	456.232	457.766	459.300	462.477	464.778	453.822	459.957
8.5	454.369	459.629	457.437	455.684	457.328	458.971	462.039	464.340	453.164	459.300
9.0	453.712	458.971	456.889	455.246	456.889	458.423	461.491	463.573	452.507	458.642
9.5	452.945	458.314	456.122	454.698	456.451	457.875	460.943	463.025	451.740	457.985
10.0	452.178	457.547	455.465	454.150	455.903	457.437	460.395	462.368	450.973	457.218
10.5	451.411	456.780	454.808	453.602	455.355	456.889	459.738	461.601	450.096	456.451
11.0	450.535	455.903	454.041	452.945	454.808	456.342	458.971	460.834	449.220	455.575
11.5	449.658	455.027	453.274	452.288	454.260	455.684	458.314	460.067	448.234	454.698
12.0	448.672	454.150	452.507	451.630	453.602	455.027	457.437	459.190	447.357	453.822
12.5	447.686	453.055	451.630	450.863	452.945	454.369	456.780	458.314	446.261	452.726
13.0	446.700	452.068	450.863	450.206	452.288	453.602	455.794	457.328	445.275	451.630
13.5	445.495	451.082	449.877	449.439	451.521	452.835	454.917	456.342	444.070	450.535
14.0	444.399	449.877	448.891	448.562	450.754	451.849	453.931	455.355	442.975	449.329
14.5	443.194	448.781	447.905	447.686	449.877	451.082	452.945	454.260	441.660	448.124
15.0	441.988	447.467	446.809	446.809	449.001	450.096	451.849	453.164	440.454	446.919
15.5	440.674	446.261	445.714	445.823	448.015	449.220	450.754	451.959	439.140	445.604
16.0	439.359	444.947	444.508	444.728	447.028	448.124	449.658	450.754	437.715	444.289
16.5	438.044	443.632	443.303	443.632	445.933	446.919	448.453	449.548	436.291	442.755
17.0	436.620	442.208	441.988	442.536	444.837	445.823	447.248	448.234	434.757	441.331
17.5	435.195	440.783	440.674	441.331	443.741	444.728	445.933	446.919	433.114	439.907
18.0	433.661	439.140	439.249	440.016	442.536	443.413	444.728	445.604	431.580	438.373
18.5	432.127	437.606	437.825	438.701	441.441	442.317	443.413	444.180	429.936	436.729
19.0	430.594	435.962	436.291	437.387	440.235	441.112	442.098	442.755	428.183	435.305
19.5	428.950	434.209	434.757	436.072	438.921	439.797	440.674	441.221	426.430	433.552
20.0	427.197	432.566	433.114	434.757	437.715	438.482	439.249	439.688	424.677	431.908
20.5	425.554	430.813	431.580	433.333	436.401	437.168	437.825	438.154	422.814	430.155
21.0	423.691	429.060	429.936	432.018	435.195	435.962	436.291	436.510	420.952	428.512
21.5	421.938	427.307	428.293	430.594	433.881	434.538	434.757	434.757	419.089	426.759
22.0	420.185	425.444	426.649	429.169	432.566	433.223	433.223	432.894	417.227	424.896
22.5	418.322	423.581	425.006	427.745	431.251	431.799	431.580	431.032	415.254	423.143
23.0	416.350	421.719	423.253	426.321	429.827	430.374	429.936	429.279	413.392	421.280
23.5	414.378	419.747	421.609	424.896	428.402	428.841	428.293	427.307	411.420	419.418
24.0	412.406	417.884	419.856	423.362	426.868	427.307	426.540	425.444	409.447	417.665
24.5	410.324	415.802	418.103	421.719	425.334	425.663	424.787	423.472	407.475	415.693
25.0	408.133	413.830	416.350	420.185	423.800	424.129	422.924	421.500	405.393	413.830
25.5	405.941	411.748	414.487	418.432	422.157	422.486	421.061	419.527	403.312	411.858
26.0	403.640	409.557	412.515	416.679	420.623	420.842	419.199	417.446	401.230	409.776
26.5	401.449	407.475	410.653	414.926	418.870	419.089	417.227	415.364	399.039	407.694

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27.0	399.039	405.284	408.571	413.063	417.227	417.336	415.364	413.173	396.957	405.613
27.5	396.738	403.093	406.489	411.310	415.473	415.473	413.282	411.091	394.656	403.531
28.0	394.327	400.792	404.517	409.338	413.830	413.830	411.310	408.900	392.465	401.449
28.5	391.917	398.491	402.326	407.366	412.077	411.967	409.119	406.599	390.164	399.258
29.0	389.506	396.299	400.244	405.503	410.214	409.995	407.037	404.407	387.972	397.066
29.5	387.096	393.999	398.053	403.531	408.461	408.133	404.846	402.106	385.781	394.875
30.0	384.905	391.588	395.752	401.668	406.599	406.160	402.654	399.696	383.261	392.574
30.5	382.385	389.287	393.670	399.696	404.736	404.188	400.463	397.505	380.960	390.383
31.0	379.974	386.767	391.369	397.833	402.764	402.106	398.381	395.094	378.550	387.972
31.5	377.454	384.466	389.178	395.752	400.682	400.025	396.080	392.684	376.139	385.562
32.0	375.044	381.837	386.986	393.670	398.710	397.943	393.889	390.273	373.510	383.152
32.5	372.524	379.426	384.795	391.588	396.628	395.861	391.588	387.753	370.990	380.632
33.0	370.004	376.906	382.385	389.506	394.546	393.779	389.287	385.343	368.470	378.112
33.5	367.484	374.277	379.974	387.206	392.355	391.588	387.096	382.713	365.731	375.482
34.0	364.854	371.428	377.564	385.014	390.273	389.506	384.686	380.193	363.101	372.852
34.5	362.115	368.689	375.044	382.713	388.192	387.425	382.494	377.454	360.362	370.223
35.0	359.376	365.840	372.305	380.412	386.110	385.343	380.084	374.825	357.623	367.593
35.5	356.527	362.882	369.785	378.002	384.028	383.261	377.673	372.195	354.774	364.745
36.0	353.459	359.924	366.936	375.701	381.946	381.070	375.263	369.456	351.925	362.005
36.5	350.391	356.965	364.306	373.291	379.755	378.988	372.633	366.607	349.077	359.266
37.0	347.433	353.898	361.458	370.880	377.673	376.687	370.113	363.978	346.118	356.527
37.5	344.256	350.830	358.718	368.470	375.482	374.386	367.593	361.238	343.160	353.569
38.0	341.188	347.762	355.870	366.059	373.291	372.085	364.964	358.499	340.311	350.720
38.5	338.010	344.804	353.021	363.649	371.099	369.675	362.444	355.541	337.353	347.871
39.0	334.943	341.736	350.282	361.238	368.798	367.265	359.705	352.802	334.285	345.023
39.5	331.765	338.777	347.543	358.718	366.498	364.964	357.075	349.953	331.327	342.174
40.0	328.588	335.710	344.694	356.308	364.087	362.553	354.445	347.104	328.259	339.216
40.5	325.520	332.861	342.064	353.788	361.786	360.033	351.706	344.256	325.301	336.367
41.0	322.343	329.903	339.325	351.268	359.376	357.513	349.077	341.407	322.343	333.409
41.5	319.275	327.054	336.586	348.857	356.965	354.993	346.228	338.449	319.384	330.450
42.0	316.316	324.096	333.957	346.447	354.555	352.473	343.489	335.490	316.426	327.602
42.5	313.358	321.247	331.217	343.927	352.144	349.953	340.859	332.532	313.468	324.643
43.0	310.290	318.289	328.697	341.517	349.734	347.324	338.010	329.574	310.509	321.576
43.5	307.442	315.330	325.958	339.106	347.214	344.804	335.271	326.616	307.551	318.727
44.0	304.374	312.372	323.329	336.696	344.804	342.174	332.423	323.438	304.483	315.769
44.5	301.416	309.523	320.590	334.285	342.393	339.764	329.574	320.480	301.416	312.701
45.0	298.457	306.565	317.960	331.656	339.983	337.134	326.835	317.522	298.457	309.633
45.5	295.389	303.607	315.330	329.136	337.572	334.614	323.986	314.454	295.389	306.565
46.0	292.322	300.429	312.482	326.725	335.162	332.094	321.137	311.276	292.212	303.388
46.5	289.254	297.471	309.743	324.315	332.861	329.574	318.398	308.318	289.035	300.210
47.0	286.076	294.403	307.003	321.795	330.450	327.163	315.549	305.250	285.748	297.033
47.5	282.899	291.335	304.264	319.384	328.150	324.643	312.701	302.073	282.570	293.746
48.0	279.721	288.268	301.525	316.755	325.739	322.233	309.852	299.005	279.174	290.568
48.5	276.434	285.200	298.786	314.235	323.438	319.823	307.003	295.937	275.887	287.282
49.0	273.148	282.241	295.828	311.934	321.247	317.303	304.155	292.760	272.490	283.995
49.5	269.861	279.174	293.089	309.414	318.946	314.892	301.306	289.582	269.094	280.817
50.0	266.464	275.996	290.349	307.003	316.645	312.482	298.567	286.515	265.697	277.530
50.5	263.177	272.928	287.501	304.593	314.344	310.071	295.718	283.337	262.191	274.243
51.0	259.780	269.751	284.652	302.182	312.043	307.661	292.979	280.160	258.575	270.956
51.5	256.494	266.683	281.694	299.662	309.743	305.250	290.130	276.982	255.179	267.450
52.0	253.097	263.396	278.845	297.142	307.332	302.730	287.282	273.805	251.563	264.273
52.5	249.700	260.219	275.887	294.622	305.031	300.210	284.542	270.518	248.057	260.767
53.0	246.413	256.932	273.038	292.102	302.511	297.800	281.584	267.231	244.332	257.260
53.5	243.017	253.535	270.189	289.582	300.101	295.170	278.845	264.054	240.826	253.754
54.0	239.730	250.139	267.231	286.953	297.690	292.650	275.996	260.767	237.210	250.358
54.5	236.333	246.742	264.273	284.433	295.280	290.130	273.257	257.480	233.594	246.742

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55.0	232.937	243.236	261.424	281.913	292.760	287.501	270.299	254.083	229.979	243.126
55.5	229.540	239.840	258.466	279.283	290.349	284.981	267.341	250.687	226.253	239.620
56.0	226.034	236.443	255.617	276.763	287.939	282.461	264.492	247.180	222.638	235.895
56.5	222.528	232.827	252.659	274.134	285.528	279.831	261.424	243.784	218.912	232.389
57.0	219.022	229.321	249.700	271.504	283.008	277.201	258.356	240.168	215.297	228.773
57.5	215.406	225.815	246.852	268.984	280.488	274.572	255.398	236.662	211.572	225.158
58.0	211.791	222.309	243.784	266.354	278.188	272.052	252.220	233.046	207.956	221.542
58.5	208.065	218.693	240.826	263.725	275.668	269.422	249.153	229.431	204.231	218.036
59.0	204.340	215.187	237.758	261.205	273.148	266.683	246.085	225.815	200.615	214.530
59.5	200.396	211.572	234.799	258.575	270.628	264.163	243.017	222.199	196.890	211.133
60.0	196.671	207.956	231.732	255.836	268.107	261.424	239.949	218.584	193.164	207.518
60.5	192.836	204.559	228.773	253.097	265.587	258.794	236.772	214.968	189.549	204.121
61.0	188.891	200.944	225.706	250.577	263.067	256.274	233.813	211.462	185.714	200.615
61.5	185.057	197.328	222.638	248.057	260.547	253.535	230.965	207.846	181.989	197.218
62.0	181.222	193.822	219.570	245.318	258.137	251.015	227.897	204.231	178.264	193.712
62.5	177.387	190.316	216.612	242.798	255.617	248.495	225.048	200.615	174.538	190.206
63.0	173.443	186.810	213.653	240.278	252.987	245.975	222.199	196.999	170.813	186.700
63.5	169.608	183.304	210.805	237.648	250.577	243.455	219.351	193.493	166.978	183.194
64.0	165.883	179.797	207.846	235.128	248.057	240.935	216.502	189.987	163.143	179.688
64.5	162.048	176.182	205.107	232.718	245.537	238.525	213.763	186.371	159.418	176.182
65.0	158.323	172.676	202.368	230.307	243.126	235.895	210.914	182.865	155.583	172.676
65.5	154.597	169.170	199.519	227.787	240.716	233.485	208.065	179.250	151.858	169.060
66.0	150.872	165.663	196.780	225.158	238.306	230.855	205.217	175.744	148.023	165.663
66.5	147.037	162.157	194.041	222.638	235.676	228.226	202.478	172.018	144.189	162.157
67.0	143.312	158.651	191.302	220.008	233.266	225.596	199.629	168.512	140.354	158.542
67.5	139.477	155.036	188.672	217.488	230.855	222.966	196.780	164.787	136.629	155.145
68.0	135.752	151.420	185.933	214.859	228.335	220.446	194.041	161.390	132.794	151.639
68.5	131.808	148.023	183.304	212.339	225.706	217.707	191.192	157.775	128.849	148.133
69.0	127.973	144.408	180.564	209.709	223.295	215.187	188.453	154.269	124.905	144.736
69.5	124.138	140.902	177.935	207.079	220.775	212.667	185.824	150.872	121.070	141.340
70.0	120.194	137.615	175.196	204.450	218.255	210.147	182.975	147.256	117.126	137.943
70.5	116.249	134.218	172.457	202.039	215.735	207.518	180.236	143.860	113.291	134.547
71.0	112.305	130.931	169.608	199.410	213.215	204.998	177.387	140.463	109.380	131.041
71.5	108.404	127.644	166.869	196.890	210.805	202.587	174.538	137.176	105.424	127.754
72.0	104.383	124.357	164.130	194.370	208.285	200.067	172.347	133.670	101.557	124.467
72.5	100.450	121.180	161.281	191.850	205.874	197.547	169.608	130.383	97.733	121.180
73.0	96.495	118.002	158.542	189.330	203.354	194.918	166.759	127.096	93.854	117.893
73.5	92.638	114.825	155.803	186.810	200.944	192.507	164.020	123.809	90.063	114.715
74.0	88.737	111.757	152.954	184.399	198.424	189.878	161.281	120.632	86.228	111.538
74.5	84.870	108.656	150.215	181.879	196.013	187.467	158.432	117.455	82.492	108.339
75.0	81.079	105.589	147.476	179.359	193.493	184.837	155.693	114.277	78.789	105.293
75.5	77.671	102.597	144.736	176.839	191.083	182.427	152.954	111.319	75.403	102.302
76.0	73.891	99.639	142.216	174.429	188.672	179.907	150.215	108.185	71.656	99.267
76.5	70.166	96.714	139.368	172.018	186.262	177.387	147.476	105.216	67.964	96.374
77.0	66.441	93.821	136.848	169.498	183.851	174.757	144.846	102.302	64.282	93.547
77.5	62.781	91.060	134.218	167.088	181.441	172.347	142.216	99.431	60.656	90.699
78.0	59.166	88.277	131.589	164.568	179.140	169.827	139.587	96.648	57.040	88.025
78.5	55.550	85.461	128.959	162.267	176.730	167.417	136.957	93.876	53.446	85.385
79.0	52.011	82.733	126.439	159.747	174.319	164.897	134.437	91.060	49.918	82.689
79.5	48.505	79.863	123.919	157.446	171.909	162.486	131.917	88.157	46.412	80.082
80.0	45.032	77.441	121.289	155.036	169.498	160.076	129.397	85.209	42.994	77.704
80.5	41.613	74.603	118.769	152.625	167.197	157.556	126.768	82.339	39.608	74.910
81.0	38.217	71.766	116.359	150.324	164.787	155.145	124.357	79.600	36.277	72.138
81.5	34.919	68.983	113.839	147.914	162.267	152.735	121.837	77.014	33.078	69.399
82.0	31.643	66.254	111.319	145.503	159.856	150.215	119.317	74.187	29.933	66.660
82.5	28.498	63.526	108.821	143.093	157.446	147.804	116.797	71.415	26.909	63.997

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CANDELA TABULATION - (Cont.)

83.0	25.408	60.875	106.334	140.573	154.926	145.394	114.387	68.698	23.940	61.357
83.5	22.439	58.278	103.890	138.162	152.406	142.874	111.867	66.013	21.102	58.815
84.0	19.579	55.736	101.469	135.752	149.996	140.463	109.390	63.406	18.374	56.306
84.5	16.840	53.238	99.047	133.342	147.585	138.053	106.980	60.842	15.788	53.863
85.0	14.287	50.817	96.637	130.931	145.175	135.533	104.526	58.333	13.323	51.496
85.5	11.855	48.461	94.248	128.521	142.764	133.122	102.093	55.933	11.022	49.184
86.0	9.587	46.182	91.959	126.220	140.354	130.712	99.694	53.567	8.875	46.938
86.5	7.549	43.958	89.647	123.809	138.053	128.302	97.316	51.288	6.936	44.747
87.0	5.697	41.777	87.401	121.508	135.642	125.891	94.994	49.042	5.193	42.621
87.5	4.087	39.652	85.067	119.208	133.342	123.590	92.649	46.828	3.681	40.550
88.0	2.695	37.592	82.843	116.907	131.041	121.289	90.304	44.681	2.410	38.534
88.5	1.578	35.565	80.706	114.606	128.630	118.879	88.025	42.555	1.413	36.562
89.0	0.712	33.582	78.646	112.524	126.548	116.578	85.746	40.474	0.701	34.623
89.5	0.131	31.675	76.817	110.333	124.357	114.277	83.467	38.392	0.241	32.738
90.0	0.000	29.857	74.746	108.120	122.056	112.195	81.407	36.496	0.000	30.941
90.5	0.000	28.038	72.620	105.917	119.755	109.894	79.490	34.645	0.000	29.155
91.0	0.000	26.241	70.451	103.638	117.564	107.572	77.463	32.683	0.000	27.391
91.5	0.000	24.466	68.270	101.305	115.154	105.238	75.195	30.799	0.000	25.704
92.0	0.000	22.779	66.090	98.982	112.743	102.827	72.916	28.969	0.000	24.050
92.5	0.000	21.135	63.899	96.604	110.223	100.362	70.615	27.161	0.000	22.439
93.0	0.000	19.492	61.729	94.238	107.692	97.941	68.391	25.452	0.000	20.905
93.5	0.000	17.925	59.582	91.926	105.260	95.530	66.156	23.743	0.000	19.393
94.0	0.000	16.347	57.478	89.526	102.762	93.164	63.943	22.067	0.000	17.914
94.5	0.000	14.802	55.386	87.225	100.362	90.830	61.751	20.434	0.000	16.446
95.0	0.000	13.279	53.315	84.957	97.985	88.463	59.604	18.812	0.000	14.989
95.5	0.000	11.756	51.255	82.700	95.618	86.217	57.489	17.202	0.000	13.542
96.0	0.000	10.255	49.261	80.476	93.295	83.971	55.386	15.624	0.000	12.129
96.5	0.000	8.743	47.245	78.679	91.016	81.769	53.293	14.035	0.000	10.716
97.0	0.000	7.242	45.262	76.466	88.748	79.654	51.233	12.469	0.000	9.280
97.5	0.000	5.719	43.300	74.275	86.469	77.682	49.184	10.869	0.000	7.845
98.0	0.000	4.196	41.306	72.061	84.256	75.469	47.146	9.302	0.000	6.442
98.5	0.000	2.706	39.312	69.881	81.977	73.201	45.097	7.702	0.000	5.029
99.0	0.000	1.326	37.340	67.646	79.808	70.966	43.070	6.114	0.000	3.638
99.5	0.000	0.241	35.346	65.422	77.825	68.698	41.021	4.536	0.000	2.301
100.0	0.000	0.000	33.363	63.165	75.513	66.408	38.984	2.980	0.000	1.074
100.5	0.000	0.000	31.347	60.919	73.201	64.118	36.935	1.490	0.000	0.263
101.0	0.000	0.000	29.353	58.683	70.911	61.839	34.875	0.394	0.000	0.110
101.5	0.000	0.000	27.348	56.415	68.599	59.538	32.837	0.000	0.000	0.055
102.0	0.000	0.000	25.310	54.169	66.287	57.248	30.755	0.000	0.000	0.022
102.5	0.000	0.000	23.294	51.934	63.954	54.980	28.695	0.000	0.000	0.000
103.0	0.000	0.000	21.245	49.677	61.642	52.701	26.646	0.000	0.000	0.000
103.5	0.000	0.000	19.185	47.442	59.330	50.411	24.554	0.000	0.000	0.000
104.0	0.000	0.000	17.103	45.207	57.007	48.132	22.450	0.000	0.000	0.000
104.5	0.000	0.000	15.011	42.972	54.684	45.864	20.335	0.000	0.000	0.000
105.0	0.000	0.000	12.885	40.693	52.340	43.596	18.210	0.000	0.000	0.000
105.5	0.000	0.000	10.726	38.436	50.028	41.306	16.073	0.000	0.000	0.000
106.0	0.000	0.000	8.568	36.157	47.672	39.005	13.893	0.000	0.000	0.000
106.5	0.000	0.000	6.410	33.867	45.316	36.715	11.702	0.000	0.000	0.000
107.0	0.000	0.000	4.328	31.544	42.939	34.404	9.477	0.000	0.000	0.000
107.5	0.000	0.000	2.465	29.199	40.539	32.070	7.264	0.000	0.000	0.000
108.0	0.000	0.000	1.074	26.833	38.118	29.703	5.073	0.000	0.000	0.000
108.5	0.000	0.000	0.197	24.455	35.664	27.326	2.991	0.000	0.000	0.000
109.0	0.000	0.000	0.000	22.023	33.209	24.904	1.370	0.000	0.000	0.000
109.5	0.000	0.000	0.000	19.579	30.722	22.483	0.373	0.000	0.000	0.000
110.0	0.000	0.000	0.000	17.103	28.235	20.029	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	14.605	25.704	17.552	0.000	0.000	0.000	0.000

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111.0	0.000	0.000	0.000	12.107	23.184	15.054	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	9.598	20.653	12.523	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	7.100	18.078	9.992	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	4.722	15.482	7.483	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	2.728	12.885	5.040	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	1.304	10.288	2.882	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.318	7.713	1.391	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	5.226	0.351	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	3.057	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	1.545	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.427	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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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. 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	462.258	462.258	462.258	462.258	462.258	462.258	462.258
0.5	461.929	459.409	459.957	460.943	464.340	466.969	459.300
1.0	461.929	459.409	459.848	460.943	464.121	466.641	459.300
1.5	461.820	459.300	459.848	460.724	463.902	466.312	459.190
2.0	461.710	459.190	459.848	460.615	463.682	465.983	459.081
2.5	461.491	459.190	459.629	460.395	463.463	465.655	458.971
3.0	461.272	458.971	459.629	460.286	463.135	465.326	458.862
3.5	461.162	458.752	459.409	460.176	462.806	464.888	458.642
4.0	460.834	458.533	459.190	459.848	462.477	464.449	458.423
4.5	460.615	458.314	458.971	459.629	462.258	464.011	458.204
5.0	460.286	458.095	458.862	459.300	461.710	463.463	457.766
5.5	459.848	457.766	458.533	458.971	461.272	462.915	457.437
6.0	459.629	457.437	458.095	458.533	460.834	462.258	457.108
6.5	459.190	457.218	457.656	458.095	460.286	461.710	456.561
7.0	458.752	456.670	457.218	457.656	459.738	461.053	456.122
7.5	458.314	456.232	456.780	457.108	459.190	460.286	455.575
8.0	457.766	455.794	456.342	456.561	458.533	459.629	455.027
8.5	457.218	455.355	455.903	455.903	457.766	458.862	454.369
9.0	456.561	454.808	455.246	455.355	457.108	458.095	453.712
9.5	456.013	454.260	454.698	454.808	456.451	457.218	452.945
10.0	455.355	453.712	454.150	454.150	455.575	456.451	452.178
10.5	454.588	453.055	453.602	453.493	454.808	455.575	451.411
11.0	453.931	452.507	453.055	452.835	454.150	454.698	450.535
11.5	453.055	451.849	452.507	452.288	453.274	453.712	449.658
12.0	452.178	451.082	451.849	451.630	452.507	452.726	448.672

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CANDELA TABULATION - (Cont.)

12.5	451.302	450.425	451.302	450.973	451.630	451.740	447.686
13.0	450.315	449.548	450.535	450.206	450.754	450.535	446.700
13.5	449.220	448.672	449.768	449.329	449.768	449.439	445.495
14.0	448.234	447.686	448.891	448.453	448.891	448.343	444.399
14.5	447.138	446.809	448.015	447.576	447.795	447.138	443.194
15.0	446.042	445.714	446.919	446.590	446.700	445.823	441.988
15.5	444.728	444.728	445.933	445.604	445.495	444.399	440.674
16.0	443.632	443.632	444.947	444.508	444.289	443.084	439.359
16.5	442.208	442.427	443.851	443.303	442.975	441.550	438.044
17.0	440.893	441.331	442.755	442.098	441.660	440.016	436.620
17.5	439.578	440.126	441.660	440.783	440.235	438.482	435.195
18.0	438.154	439.030	440.454	439.468	438.701	436.839	433.661
18.5	436.729	437.715	439.249	438.154	437.168	435.086	432.127
19.0	435.195	436.510	437.934	436.839	435.524	433.333	430.594
19.5	433.771	435.195	436.729	435.414	433.881	431.580	428.950
20.0	432.237	433.771	435.305	433.990	432.237	429.717	427.197
20.5	430.703	432.347	433.881	432.456	430.484	427.854	425.554
21.0	429.169	431.032	432.456	430.922	428.731	425.992	423.691
21.5	427.526	429.498	431.032	429.388	426.978	424.020	421.938
22.0	425.882	427.964	429.498	427.745	425.115	422.047	420.185
22.5	424.348	426.430	428.074	426.211	423.362	420.075	418.322
23.0	422.595	424.896	426.430	424.458	421.500	417.994	416.350
23.5	420.952	423.362	424.896	422.814	419.637	416.021	414.378
24.0	419.199	421.828	423.362	421.171	417.774	413.830	412.406
24.5	417.555	420.294	421.828	419.527	415.802	411.748	410.324
25.0	415.912	418.651	420.294	417.774	413.940	409.667	408.133
25.5	414.159	417.117	418.760	416.240	411.967	407.585	405.941
26.0	412.406	415.583	417.227	414.487	409.995	405.393	403.640
26.5	410.653	414.049	415.802	412.844	408.133	403.202	401.449
27.0	408.790	412.515	414.268	411.200	406.160	401.011	399.039
27.5	406.818	410.981	412.734	409.557	404.298	398.819	396.738
28.0	405.065	409.447	411.200	407.913	402.326	396.628	394.327
28.5	403.202	407.694	409.667	406.380	400.463	394.437	391.917
29.0	401.120	405.941	408.023	404.626	398.491	392.246	389.506
29.5	399.039	404.079	406.380	402.873	396.519	390.054	387.096
30.0	396.847	402.326	404.736	401.120	394.546	387.753	384.905
30.5	394.766	400.463	403.093	399.258	392.465	385.452	382.385
31.0	392.574	398.491	401.230	397.505	390.383	383.152	379.974
31.5	390.273	396.519	399.367	395.642	388.301	380.741	377.454
32.0	387.972	394.546	397.505	393.670	386.110	378.440	375.044
32.5	385.781	392.465	395.642	391.807	383.919	376.030	372.524
33.0	383.480	390.492	393.779	389.726	381.508	373.510	370.004
33.5	381.179	388.411	391.698	387.644	379.207	370.990	367.484
34.0	378.879	386.219	389.616	385.452	376.797	368.360	364.854
34.5	376.468	384.138	387.753	383.261	374.496	365.621	362.115
35.0	374.058	381.946	385.452	381.070	371.866	362.991	359.376
35.5	371.647	379.865	383.261	378.769	369.346	360.143	356.527
36.0	369.018	377.454	381.070	376.359	366.717	357.404	353.459
36.5	366.498	375.153	378.769	373.948	364.087	354.555	350.391
37.0	363.868	372.743	376.359	371.538	361.458	351.816	347.433
37.5	361.238	370.223	374.058	369.018	358.718	348.967	344.256
38.0	358.609	367.703	371.647	366.498	356.089	346.009	341.188
38.5	355.870	365.292	369.237	364.087	353.350	343.160	338.010
39.0	353.240	362.772	366.826	361.458	350.611	340.311	334.943
39.5	350.501	360.362	364.525	359.047	347.871	337.353	331.765
40.0	347.762	357.951	362.225	356.527	345.242	334.504	328.588

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CANDELA TABULATION - (Cont.)

40.5	345.132	355.431	359.924	354.226	342.393	331.546	325.520
41.0	342.503	353.131	357.623	351.816	339.764	328.588	322.343
41.5	339.873	350.830	355.431	349.515	337.134	325.739	319.275
42.0	337.244	348.529	353.240	347.214	334.504	322.781	316.316
42.5	334.724	346.118	351.049	344.804	331.875	319.823	313.358
43.0	331.984	343.817	348.857	342.503	329.136	316.864	310.290
43.5	329.245	341.407	346.666	340.202	326.506	313.906	307.442
44.0	326.616	339.106	344.475	337.791	323.876	311.057	304.374
44.5	323.876	336.696	342.064	335.490	321.247	308.099	301.416
45.0	321.028	334.066	339.873	333.190	318.617	305.141	298.457
45.5	318.179	331.656	337.463	330.670	315.878	302.182	295.389
46.0	315.440	329.136	335.162	328.150	313.029	299.224	292.322
46.5	312.482	326.506	332.642	325.739	310.400	296.156	289.254
47.0	309.633	323.767	330.231	323.219	307.661	293.089	286.076
47.5	306.675	321.247	327.711	320.590	304.812	290.130	282.899
48.0	303.716	318.617	325.191	319.165	301.854	286.843	279.721
48.5	300.868	315.878	322.781	315.330	299.005	283.666	276.434
49.0	297.909	313.249	320.151	312.701	296.047	280.488	273.148
49.5	294.842	310.619	317.631	310.071	293.089	277.201	269.861
50.0	291.883	307.989	315.002	307.332	290.130	273.914	266.464
50.5	289.035	305.250	312.482	304.593	287.172	270.628	263.177
51.0	285.967	302.730	309.852	301.854	284.104	267.121	259.780
51.5	283.008	299.991	307.222	299.224	281.146	263.834	256.494
52.0	279.941	297.252	304.702	296.595	277.968	260.438	253.097
52.5	276.873	294.622	302.073	293.746	275.010	256.932	249.700
53.0	273.914	291.883	299.553	291.116	271.833	253.535	246.413
53.5	270.737	289.254	296.923	288.268	268.765	250.139	243.017
54.0	267.779	286.515	294.294	285.638	265.807	246.633	239.730
54.5	264.711	283.775	291.664	282.899	262.739	243.126	236.333
55.0	261.534	280.927	289.144	280.160	259.561	239.730	232.937
55.5	258.356	278.188	286.515	277.530	256.603	236.224	229.540
56.0	255.288	275.448	283.885	274.901	253.426	232.718	226.034
56.5	252.220	272.819	281.365	272.161	250.358	229.321	222.528
57.0	249.043	270.080	278.735	269.532	247.509	225.815	219.022
57.5	246.085	267.231	276.106	266.902	244.332	222.309	215.406
58.0	243.017	264.492	273.586	264.163	241.373	218.803	211.791
58.5	240.059	261.862	270.956	261.424	238.306	215.297	208.065
59.0	237.100	259.233	268.436	258.794	235.238	211.900	204.340
59.5	234.252	256.603	265.916	256.165	232.279	208.394	200.396
60.0	231.403	254.083	263.506	253.535	229.431	204.888	196.671
60.5	228.445	251.453	261.095	250.906	226.582	201.382	192.836
61.0	225.596	249.043	258.685	248.386	223.514	197.985	188.891
61.5	222.747	246.633	256.274	245.975	220.666	194.479	185.057
62.0	220.008	244.113	254.083	243.455	217.926	190.973	181.222
62.5	217.050	241.593	251.673	241.045	215.078	187.577	177.387
63.0	214.201	239.182	249.262	238.525	212.339	184.071	173.443
63.5	211.352	236.662	246.852	236.224	209.490	180.674	169.608
64.0	208.394	234.252	244.551	233.813	206.751	177.277	165.883
64.5	205.545	231.732	242.140	231.293	204.012	173.881	162.048
65.0	202.697	229.212	239.511	228.883	201.163	170.375	158.323
65.5	199.848	226.692	236.991	226.472	198.533	166.869	154.597
66.0	196.999	224.172	234.580	224.391	195.794	163.472	150.872
66.5	194.151	221.652	232.170	221.652	193.055	160.185	147.037
67.0	191.521	219.132	229.759	219.022	190.425	156.789	143.312
67.5	188.672	216.721	227.349	216.612	187.796	153.392	139.477
68.0	185.933	214.092	224.829	214.201	185.057	150.105	135.752

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CANDELA TABULATION - (Cont.)

68.5	183.304	211.572	222.419	211.681	182.317	146.818	131.808
69.0	180.564	209.052	219.899	209.161	179.688	143.422	127.973
69.5	177.935	206.532	217.488	206.532	176.949	140.025	124.138
70.0	175.305	204.012	214.968	204.012	174.319	136.738	120.194
70.5	172.566	201.382	212.448	201.382	171.580	133.451	116.249
71.0	169.937	198.862	210.038	198.971	168.841	130.164	112.305
71.5	167.197	196.232	207.518	196.342	166.102	126.877	108.404
72.0	164.568	193.822	204.998	193.822	163.363	123.700	104.383
72.5	161.938	191.302	202.587	191.411	160.733	120.413	100.450
73.0	159.199	188.782	200.177	188.891	158.103	117.345	96.495
73.5	156.460	186.262	197.766	186.481	155.474	114.277	92.638
74.0	153.721	183.742	195.246	183.961	152.844	111.100	88.737
74.5	151.091	181.331	192.945	181.551	150.215	108.152	84.870
75.0	148.352	178.921	190.535	179.140	147.804	105.161	81.079
75.5	145.723	176.401	188.124	176.730	145.175	102.291	77.671
76.0	142.983	173.990	185.824	174.429	142.655	99.431	73.891
76.5	140.463	171.580	183.523	172.018	140.135	96.615	70.166
77.0	137.724	169.389	181.222	169.608	137.615	93.898	66.441
77.5	135.204	167.088	179.031	167.307	135.095	91.246	62.781
78.0	132.575	164.677	176.730	165.006	132.684	88.628	59.166
78.5	130.055	162.486	174.429	162.596	130.164	86.075	55.550
79.0	127.644	160.076	172.018	160.295	127.644	83.380	52.011
79.5	125.015	157.775	169.827	157.994	125.234	80.695	48.505
80.0	122.495	155.474	167.526	155.803	122.823	78.350	45.032
80.5	120.084	153.063	165.116	153.392	120.413	75.787	41.613
81.0	117.564	150.763	162.924	151.091	118.002	73.157	38.217
81.5	115.044	148.462	160.514	148.681	115.482	70.506	34.919
82.0	112.634	146.051	158.213	146.380	113.181	67.920	31.643
82.5	110.223	143.750	155.803	144.079	110.771	65.378	28.498
83.0	107.846	141.449	153.611	141.669	108.426	62.902	25.408
83.5	105.479	139.039	151.310	139.368	106.202	60.436	22.439
84.0	103.200	136.848	149.009	137.067	103.934	58.070	19.579
84.5	100.877	134.547	146.599	134.766	101.611	55.747	16.840
85.0	98.620	132.246	144.408	132.465	99.420	53.490	14.287
85.5	96.297	129.945	142.107	130.274	97.196	51.266	11.855
86.0	94.051	127.644	139.806	127.973	94.917	49.085	9.587
86.5	91.860	125.343	137.615	125.672	92.715	46.971	7.549
87.0	89.537	123.042	135.314	123.371	90.490	44.911	5.697
87.5	87.291	120.742	133.013	121.070	88.332	42.884	4.087
88.0	85.111	118.550	130.602	118.769	86.152	40.890	2.695
88.5	82.919	116.140	128.302	116.578	83.960	38.907	1.578
89.0	80.673	113.839	126.001	114.277	81.681	36.978	0.712
89.5	78.887	111.648	123.700	111.867	79.523	35.094	0.131
90.0	76.751	109.314	121.508	109.675	77.814	33.297	0.000
90.5	74.680	107.210	119.317	107.495	75.754	31.489	0.000
91.0	72.565	105.008	116.907	105.282	73.595	29.703	0.000
91.5	70.429	102.784	114.606	102.981	71.415	27.983	0.000
92.0	68.270	100.428	112.195	100.713	69.289	26.318	0.000
92.5	66.167	98.160	109.894	98.423	67.197	24.718	0.000
93.0	64.118	95.870	107.561	96.144	65.137	23.129	0.000
93.5	62.058	93.679	105.337	93.942	63.110	21.606	0.000
94.0	60.042	91.509	103.090	91.794	61.105	20.127	0.000
94.5	58.026	89.318	100.855	89.570	59.144	18.637	0.000
95.0	56.043	87.149	98.609	87.444	57.193	17.180	0.000
95.5	54.093	84.990	96.341	85.231	55.265	15.745	0.000
96.0	52.142	82.887	94.161	83.149	53.359	14.298	0.000

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96.5	50.203	80.684	91.915	81.002	51.452	12.874	0.000
97.0	48.242	78.800	89.680	79.085	49.546	11.450	0.000
97.5	46.324	76.882	87.488	77.178	47.661	10.014	0.000
98.0	44.396	74.757	85.319	75.085	45.777	8.579	0.000
98.5	42.468	72.620	83.095	72.960	43.903	7.144	0.000
99.0	40.561	70.506	80.892	70.867	42.018	5.708	0.000
99.5	38.644	68.336	79.117	68.742	40.134	4.284	0.000
100.0	36.737	66.189	76.915	66.638	38.271	2.893	0.000
100.5	34.842	64.030	74.713	64.512	36.376	1.501	0.000
101.0	32.957	61.905	72.478	62.409	34.513	0.241	0.000
101.5	31.073	59.790	70.276	60.316	32.629	0.000	0.000
102.0	29.177	57.664	68.095	58.223	30.744	0.000	0.000
102.5	27.315	55.539	65.926	56.142	28.882	0.000	0.000
103.0	25.430	53.424	63.723	54.049	26.986	0.000	0.000
103.5	23.535	51.321	61.532	51.956	25.102	0.000	0.000
104.0	21.617	49.217	59.352	49.874	23.195	0.000	0.000
104.5	19.700	47.113	57.193	47.782	21.289	0.000	0.000
105.0	17.739	44.977	55.024	45.656	19.382	0.000	0.000
105.5	15.767	42.851	52.811	43.520	17.454	0.000	0.000
106.0	13.772	40.737	50.597	41.394	15.493	0.000	0.000
106.5	11.767	38.589	48.395	39.257	13.542	0.000	0.000
107.0	9.708	36.453	46.160	37.088	11.559	0.000	0.000
107.5	7.626	34.250	43.936	34.908	9.576	0.000	0.000
108.0	5.577	32.048	41.690	32.738	7.571	0.000	0.000
108.5	3.561	29.846	39.433	30.547	5.555	0.000	0.000
109.0	1.753	27.611	37.176	28.356	3.572	0.000	0.000
109.5	0.526	25.375	34.897	26.131	1.687	0.000	0.000
110.0	0.110	23.086	32.607	23.896	0.329	0.000	0.000
110.5	0.000	20.785	30.317	21.683	0.000	0.000	0.000
111.0	0.000	18.473	27.972	19.360	0.000	0.000	0.000
111.5	0.000	16.150	25.638	17.070	0.000	0.000	0.000
112.0	0.000	13.805	23.283	14.769	0.000	0.000	0.000
112.5	0.000	11.439	20.916	12.447	0.000	0.000	0.000
113.0	0.000	9.061	18.506	10.091	0.000	0.000	0.000
113.5	0.000	6.684	16.084	7.735	0.000	0.000	0.000
114.0	0.000	4.372	13.663	5.380	0.000	0.000	0.000
114.5	0.000	2.257	11.209	3.112	0.000	0.000	0.000
115.0	0.000	0.712	8.765	1.183	0.000	0.000	0.000
115.5	0.000	0.044	6.300	0.142	0.000	0.000	0.000
116.0	0.000	0.000	3.901	0.000	0.000	0.000	0.000
116.5	0.000	0.000	1.786	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	169.97	N.A.	10.50
0-30	362.09	N.A.	22.40
0-40	596.10	N.A.	36.90
0-60	1079.14	N.A.	66.80
0-80	1431.56	N.A.	88.60
0-90	1531.94	N.A.	94.90
10-90	1488.11	N.A.	92.10
20-40	426.13	N.A.	26.40
20-50	673.89	N.A.	41.70
40-70	683.47	N.A.	42.30
60-80	352.42	N.A.	21.80
70-80	151.99	N.A.	9.40
80-90	100.37	N.A.	6.20
90-110	80.58	N.A.	5.00
90-120	83.02	N.A.	5.10
90-130	83.02	N.A.	5.10
90-150	83.02	N.A.	5.10
90-180	83.02	N.A.	5.10
110-180	2.44	N.A.	0.20
0-180	1614.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.83
10-20	126.14
20-30	192.11
30-40	234.02
40-50	247.76
50-60	235.28
60-70	200.43
70-80	151.99
80-90	100.37
90-100	57.29
100-110	23.28
110-120	2.44
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

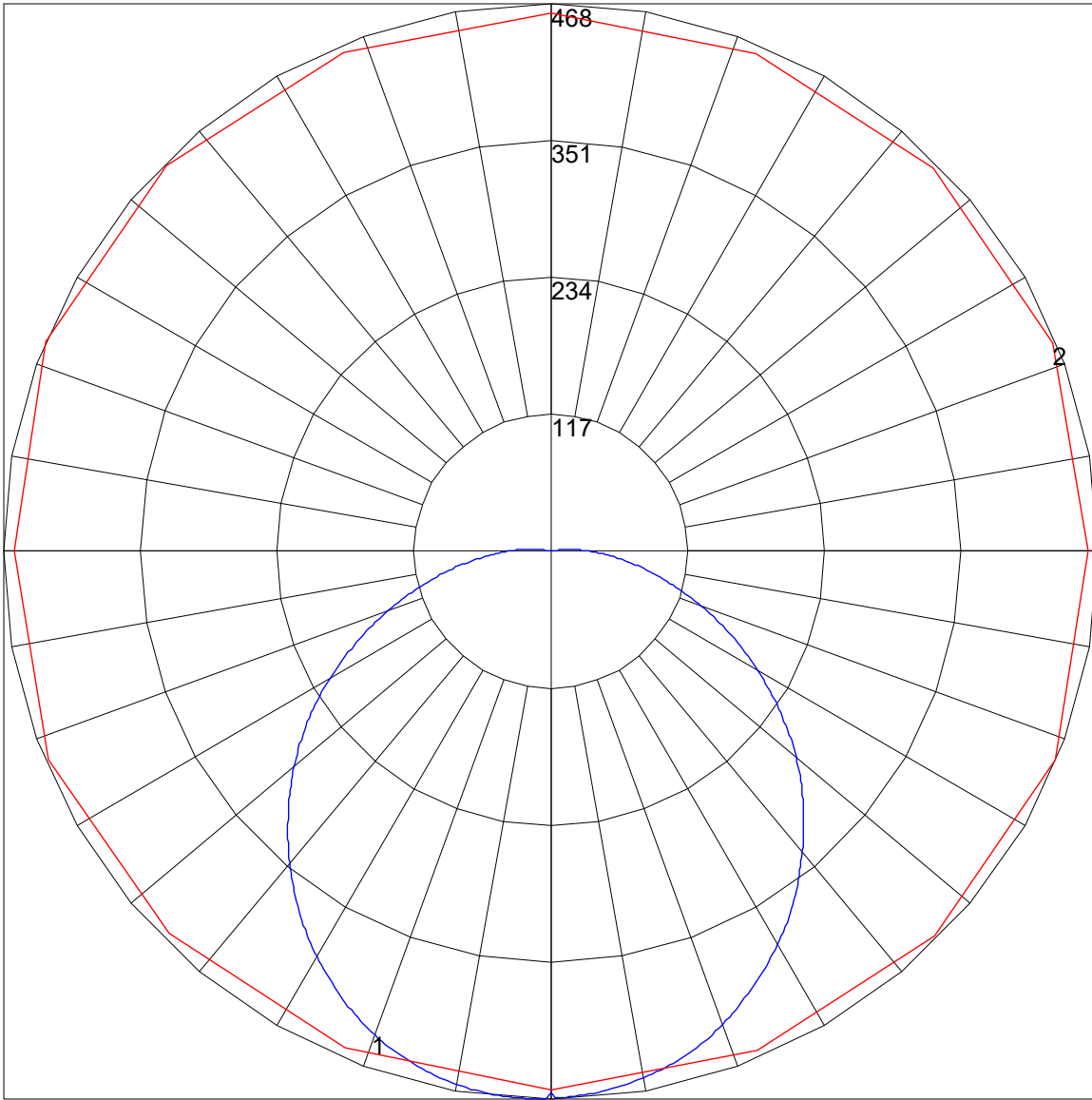
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 467.627 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.)