



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LSL22LFA-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] s14150095e-03
[TESTLAB] LEADING TESTING LABORATORIES
[TESTDATE] 2017-07-15
[ISSUEDATE] 2017-07-16
[NEARFIELD]
[LAMPPOSITION] 0,0
[LUMCAT] LSL22LFA-40
[LUMINAIRE] 2x2 Recessed Troffer with flat frosted acrylic lens, 4000K Low Power
[MANUFAC] LAMAR LIGHTING CO., INC.
[_SEARCH_SOURCE] LED
[_SEARCH_APPLICATION] Indoor
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2227
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	18.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.79 ft
Luminous Width (90-270)	1.79 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2679	2655	2545
55	2252	2196	1939
65	1825	1646	1563
75	1741	1498	1519
85	1889	1766	1649

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0.0	885.238	885.238	885.238	885.238	885.238	885.238	885.238	885.238	885.238	885.238
0.5	885.338	885.438	885.346	885.426	885.421	885.447	885.334	885.334	885.342	885.342
1.0	885.526	885.538	885.350	885.530	885.530	885.551	885.434	885.434	885.442	885.442
1.5	885.442	885.538	885.451	885.630	885.630	885.555	885.534	885.438	885.543	885.346
2.0	885.438	885.538	885.451	885.634	885.634	885.555	885.538	885.438	885.259	885.250
2.5	885.346	885.442	885.355	885.634	885.634	885.647	885.438	885.346	885.150	884.962
3.0	885.246	885.246	885.254	885.451	885.538	885.463	885.254	885.154	884.958	884.662
3.5	884.862	884.966	884.866	885.250	885.250	885.167	884.958	884.954	884.657	884.265
4.0	884.361	884.570	884.582	884.854	884.854	884.699	884.653	884.561	884.282	883.885
4.5	883.985	884.261	884.094	884.357	884.353	884.294	884.098	883.964	883.685	883.392
5.0	883.584	883.672	883.785	883.889	883.889	883.802	883.593	883.313	883.088	882.599
5.5	882.900	883.271	883.292	883.296	883.288	883.104	882.896	882.704	882.198	881.902
6.0	882.299	882.779	882.795	882.704	882.695	882.603	882.107	882.015	881.530	881.054
6.5	881.610	882.119	882.006	882.015	882.006	881.818	881.509	881.322	880.750	880.261
7.0	881.004	881.426	881.351	881.413	881.105	880.975	880.708	880.428	879.856	879.364
7.5	880.353	880.821	880.562	880.712	880.265	879.986	879.773	879.426	878.758	878.370
8.0	879.468	879.923	879.756	879.781	879.276	878.979	878.779	878.399	877.852	877.368
8.5	878.478	879.038	878.767	878.787	878.278	877.990	877.689	877.126	876.650	876.178
9.0	877.472	877.994	877.760	877.589	877.280	877.084	876.491	875.915	875.443	874.959
9.5	876.395	877.097	876.779	876.600	876.203	875.898	875.205	874.637	874.170	873.673
10.0	875.293	875.827	875.589	875.406	875.009	874.708	874.011	873.347	872.876	872.295
10.5	874.195	874.621	874.274	874.199	873.711	873.210	872.433	871.949	871.385	870.805
11.0	873.068	873.514	873.063	872.792	872.408	871.698	871.018	870.538	869.882	869.110
11.5	871.489	872.208	871.569	871.481	871.105	870.291	869.519	868.939	868.104	867.502
12.0	870.091	870.813	870.275	870.003	869.615	868.805	867.937	867.160	866.233	865.724
12.5	868.600	869.222	868.868	868.504	868.129	867.314	866.346	865.373	864.338	863.858
13.0	867.014	867.557	867.390	866.822	866.546	865.548	864.384	863.578	862.559	861.887
13.5	865.523	866.054	865.615	865.227	864.764	863.757	862.488	861.586	860.584	859.791
14.0	863.845	864.450	864.087	863.440	862.981	861.666	860.434	859.436	858.484	857.791
14.5	862.046	862.668	862.204	861.741	861.081	859.658	858.505	857.224	856.184	855.591
15.0	860.142	860.872	860.309	859.937	859.081	857.758	856.313	855.123	854.113	853.395
15.5	858.171	858.802	858.251	857.958	857.002	855.579	854.130	852.944	851.729	850.953
16.0	855.984	856.806	856.251	855.867	854.798	853.337	851.921	850.544	849.441	848.556
16.5	853.988	854.702	854.163	853.717	852.606	850.953	849.575	848.206	847.041	846.160
17.0	851.733	852.472	852.055	851.429	850.351	848.460	847.170	845.826	844.536	843.655
17.5	849.295	850.322	849.700	849.086	847.813	846.014	844.540	843.287	842.052	840.999
18.0	846.899	847.926	847.387	846.694	845.208	843.475	841.897	840.482	839.162	838.198
18.5	844.911	845.450	845.012	844.410	842.644	840.991	839.300	837.722	836.202	835.610
19.0	842.482	843.054	842.619	841.793	840.014	838.211	836.528	835.013	833.589	832.741
19.5	839.856	840.411	839.989	839.171	837.292	835.681	833.706	832.274	830.758	829.986
20.0	837.346	837.705	837.384	836.269	834.503	832.771	830.700	829.080	827.694	826.742
20.5	834.658	835.013	834.507	833.393	831.531	829.785	827.539	825.986	824.700	823.544
21.0	831.743	832.303	831.681	830.203	828.525	826.571	824.441	822.884	821.498	820.513
21.5	828.737	829.222	828.775	827.164	825.514	823.456	821.506	819.857	818.304	817.227
22.0	825.648	826.128	825.798	824.203	822.429	820.283	818.262	816.588	814.939	813.874
22.5	822.575	823.072	822.621	821.114	819.273	817.127	814.927	813.219	811.495	810.489
23.0	819.214	819.757	819.244	817.812	815.757	813.837	811.499	809.745	808.063	807.061
23.5	815.808	816.446	815.833	814.555	812.480	810.526	808.151	806.255	804.577	803.571
24.0	812.397	812.969	812.501	810.948	808.969	806.735	804.518	802.748	800.823	799.746
24.5	808.873	809.445	808.652	807.316	805.341	803.157	800.811	798.928	797.091	796.252
25.0	805.203	806.046	805.236	803.821	801.671	799.458	797.024	795.333	793.283	792.549
25.5	801.742	802.385	801.558	800.055	797.809	795.859	793.430	791.292	789.417	788.687
26.0	797.880	798.598	797.696	796.223	793.956	792.023	789.246	787.251	785.530	784.503
26.5	793.897	794.536	793.784	792.223	789.856	787.706	785.201	783.355	781.401	780.366

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27.0	789.789	790.545	789.952	788.136	785.864	783.731	781.184	779.230	777.402	776.178
27.5	785.702	786.457	785.881	783.948	781.681	779.619	777.001	774.968	773.298	771.803
28.0	781.318	782.249	781.485	779.639	777.393	775.297	772.417	770.680	768.630	767.411
28.5	776.780	777.911	777.118	775.473	773.152	770.768	768.116	766.142	763.996	762.927
29.0	772.291	773.327	772.851	770.822	768.643	766.209	763.662	761.541	759.503	758.485
29.5	767.494	768.676	768.150	766.204	763.871	761.691	759.195	756.694	754.819	753.633
30.0	762.681	763.850	763.165	761.687	759.153	756.857	754.564	752.114	750.055	748.770
30.5	757.742	758.623	758.372	756.756	754.635	752.064	749.630	747.208	745.029	743.856
31.0	752.694	753.851	753.462	751.993	749.751	747.275	744.699	742.069	740.015	738.779
31.5	747.651	748.565	748.477	746.770	744.624	742.340	739.568	736.858	734.900	733.664
32.0	742.432	743.467	743.004	741.634	739.589	737.088	734.190	731.794	729.853	728.254
32.5	737.088	738.002	737.814	736.353	734.094	731.898	729.022	726.488	724.584	723.135
33.0	731.389	732.612	732.362	730.909	728.771	726.354	723.807	721.202	719.048	717.925
33.5	725.644	727.168	726.563	725.486	723.536	720.931	718.171	715.407	713.533	712.138
34.0	720.083	721.369	720.743	719.691	717.849	715.127	712.364	709.942	707.829	706.356
34.5	714.113	715.524	715.119	714.246	712.192	709.696	706.919	704.135	701.805	700.661
35.0	708.356	709.545	709.236	708.063	706.510	703.751	700.957	698.064	695.818	694.432
35.5	702.310	703.496	703.099	702.135	700.502	697.860	694.812	691.885	689.677	688.274
36.0	696.002	697.384	697.012	696.123	694.165	691.664	688.562	685.831	683.468	681.936
36.5	689.739	691.138	690.737	689.677	687.944	685.355	682.475	679.105	677.056	675.553
37.0	683.272	684.566	684.262	683.381	681.585	679.005	675.653	672.609	670.359	669.073
37.5	676.563	678.078	677.744	676.843	675.018	672.300	668.831	665.867	663.541	662.197
38.0	670.046	671.353	671.332	670.296	668.468	665.691	662.305	659.387	656.773	655.354
38.5	663.215	664.606	664.455	663.595	661.541	658.974	655.379	652.269	649.580	647.956
39.0	656.143	657.734	657.604	656.815	654.886	652.068	648.361	644.996	642.065	640.474
39.5	648.929	650.816	650.728	649.739	647.876	644.779	640.846	637.560	634.583	633.180
40.0	642.157	643.560	643.543	642.336	640.512	637.477	633.702	630.149	626.889	625.478
40.5	634.830	636.324	636.362	635.101	633.135	630.250	626.158	622.392	618.873	617.169
41.0	627.310	629.102	628.884	627.937	625.866	622.580	618.242	613.900	610.423	608.665
41.5	620.008	621.670	621.545	620.017	618.088	614.744	610.109	605.993	602.469	600.553
42.0	612.393	614.097	614.026	612.527	610.364	607.091	602.586	598.211	594.011	592.048
42.5	604.644	606.260	606.227	604.874	602.695	599.179	594.261	589.393	585.143	582.897
43.0	597.058	598.662	598.348	596.962	594.558	591.155	585.978	580.471	575.941	573.670
43.5	588.667	590.662	590.228	588.700	586.291	582.379	577.215	571.787	567.195	564.736
44.0	580.772	582.638	582.250	580.709	578.012	574.363	569.169	562.869	557.934	555.379
44.5	572.514	574.367	574.079	572.255	569.650	566.097	560.339	553.847	548.219	545.518
45.0	564.468	566.138	565.846	564.335	561.504	557.425	551.367	544.775	538.354	536.133
45.5	555.626	557.726	557.254	555.551	552.858	548.779	542.483	535.076	528.718	526.075
46.0	547.572	549.205	548.816	547.209	544.424	540.245	533.753	525.741	518.948	516.139
46.5	538.851	540.387	539.961	538.425	535.920	531.477	524.313	515.600	508.540	505.434
47.0	530.075	531.644	531.327	529.741	527.023	522.459	514.736	505.609	497.551	494.717
47.5	521.345	522.969	522.493	520.731	518.335	513.851	505.881	495.635	487.277	484.079
48.0	512.669	514.197	513.525	512.185	509.563	505.087	496.516	485.273	476.722	473.220
48.5	503.651	505.371	504.453	503.125	501.004	495.977	486.329	474.948	465.826	462.118
49.0	494.950	495.936	495.422	493.999	492.057	486.559	476.426	464.231	454.445	451.313
49.5	485.415	486.738	486.200	484.868	482.935	477.328	466.389	453.405	443.577	439.945
50.0	476.422	477.658	476.944	476.330	474.201	468.347	456.474	442.500	432.405	428.948
50.5	467.249	468.535	467.713	467.166	465.366	458.386	445.740	431.570	421.662	418.143
51.0	458.273	459.020	458.490	458.319	456.398	448.888	435.306	420.761	411.150	407.618
51.5	448.449	449.990	449.597	449.539	447.518	439.126	424.890	410.156	400.307	397.159
52.0	439.769	440.734	440.379	440.667	438.116	429.399	414.168	399.247	390.003	386.726
52.5	430.706	431.219	431.399	431.595	429.031	419.329	403.334	389.081	380.063	376.760
53.0	421.090	421.838	422.001	422.518	419.508	409.083	393.047	378.952	370.235	367.304
53.5	411.789	412.707	413.145	413.630	410.394	399.042	382.877	368.936	360.611	357.639
54.0	402.883	403.100	404.123	404.608	401.272	388.926	372.235	358.921	351.339	348.491
54.5	393.773	394.404	395.339	395.677	391.728	378.564	362.048	349.802	342.413	339.849

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55.0	384.885	385.482	386.417	386.943	382.058	368.385	352.495	340.634	333.812	331.411
55.5	375.675	376.552	377.537	377.871	372.531	358.211	343.114	331.457	325.045	322.581
56.0	366.690	367.053	368.652	368.845	362.716	348.299	333.157	322.477	316.653	314.411
56.5	357.948	358.645	359.918	359.630	353.084	338.179	323.976	314.152	308.524	306.336
57.0	349.406	350.166	351.284	350.875	343.360	328.727	315.263	305.965	300.437	298.788
57.5	340.880	341.661	342.513	341.770	333.871	319.254	306.771	297.598	292.559	290.125
58.0	332.255	332.710	333.833	333.019	324.205	310.123	297.911	288.121	285.257	283.007
58.5	323.967	324.690	325.558	324.051	315.058	301.143	287.937	280.852	277.959	275.897
59.0	315.926	316.323	317.183	315.221	305.539	292.772	280.485	273.655	270.661	268.782
59.5	307.806	308.144	308.520	306.245	296.329	284.589	273.116	266.457	263.363	261.672
60.0	299.874	299.786	300.237	297.268	292.718	276.414	265.747	259.263	256.065	254.817
60.5	292.513	292.809	292.296	290.179	283.211	268.240	258.378	252.504	249.373	248.392
61.0	285.207	285.386	284.597	281.600	273.425	260.065	251.210	245.640	243.031	242.016
61.5	277.901	277.930	276.903	272.949	263.639	251.886	243.962	238.885	236.464	235.779
62.0	270.590	270.477	269.204	264.303	253.857	244.354	236.877	232.472	230.456	229.821
62.5	263.284	263.025	261.509	255.652	246.012	237.011	230.289	226.302	224.431	223.855
63.0	255.978	255.573	253.811	247.903	238.555	230.314	223.830	220.127	218.803	218.119
63.5	249.139	248.650	246.513	240.046	231.182	223.271	217.321	214.177	213.067	212.658
64.0	242.413	241.812	239.520	232.714	224.106	216.595	211.171	208.616	207.727	207.389
64.5	236.096	235.316	232.326	225.646	217.200	210.069	205.431	203.089	202.408	202.091
65.0	229.817	228.940	225.947	218.707	210.420	204.016	199.544	197.548	197.169	196.839
65.5	223.600	222.694	219.359	211.977	204.120	197.870	193.866	192.367	192.121	191.879
66.0	217.597	216.670	213.117	205.489	197.770	191.845	188.313	187.332	187.207	187.057
66.5	211.856	210.700	206.892	199.344	191.779	186.105	183.237	182.360	182.393	182.235
67.0	206.245	205.063	201.160	193.386	185.992	180.690	177.826	177.513	177.675	177.479
67.5	200.667	199.536	195.369	187.721	180.352	175.312	172.966	172.895	173.192	173.041
68.0	195.348	194.213	189.996	182.147	174.945	170.173	168.173	168.374	168.824	168.699
68.5	190.284	188.919	184.527	176.920	169.747	165.184	163.627	163.994	164.428	164.407
69.0	185.249	183.854	179.613	171.843	164.783	160.320	158.946	159.748	160.224	160.191
69.5	180.289	178.890	174.477	166.854	159.823	155.560	154.604	155.631	156.174	156.237
70.0	175.596	174.194	169.781	162.203	155.160	151.077	150.321	151.523	152.229	152.212
70.5	171.016	169.626	165.188	157.794	150.709	146.801	146.359	147.624	148.334	148.367
71.0	166.658	165.121	160.875	153.156	146.463	142.618	142.347	143.933	144.689	144.705
71.5	162.353	160.758	156.525	149.114	142.322	138.552	138.635	140.347	141.082	141.173
72.0	158.032	156.487	152.291	144.948	138.226	134.619	134.928	136.664	137.424	137.474
72.5	153.878	152.346	148.154	141.044	134.368	130.907	131.329	133.099	133.938	133.984
73.0	149.853	148.271	144.196	137.036	130.648	127.337	127.809	129.780	130.686	130.640
73.5	145.941	144.163	140.280	133.429	127.087	123.839	124.611	126.515	127.308	127.363
74.0	142.021	140.284	136.514	129.797	123.572	120.541	121.317	123.200	123.922	123.864
74.5	138.155	136.452	132.761	126.244	120.140	117.301	118.082	119.939	120.532	120.453
75.0	134.260	132.552	128.861	122.628	116.871	114.144	114.892	116.670	117.263	117.100
75.5	130.456	128.690	125.150	119.326	113.652	111.034	111.886	113.343	113.823	113.660
76.0	126.724	124.929	121.513	115.840	110.541	108.016	108.721	109.940	110.316	110.091
76.5	122.941	121.171	117.856	112.529	107.456	105.076	105.515	106.550	106.930	106.717
77.0	118.975	117.372	114.099	109.068	104.429	102.171	102.375	103.302	103.502	103.244
77.5	115.126	113.639	110.433	105.857	101.394	99.177	99.169	99.766	100.008	99.716
78.0	111.251	109.836	106.792	102.367	98.363	96.129	95.850	96.250	96.405	96.092
78.5	107.289	105.932	103.690	99.060	95.303	93.036	92.468	92.727	92.860	92.693
79.0	103.106	103.327	99.795	95.449	92.226	89.821	89.065	89.332	89.295	89.036
79.5	99.073	99.570	95.687	92.188	89.124	86.623	85.679	85.663	85.671	85.437
80.0	94.981	94.409	91.963	88.752	85.905	83.337	82.185	82.047	82.001	81.797
80.5	90.748	90.289	88.201	85.178	82.523	79.880	78.636	78.486	78.402	78.227
81.0	86.431	86.281	84.356	81.521	79.150	76.394	75.025	74.833	74.611	74.499
81.5	82.147	83.082	80.532	77.976	75.455	72.820	71.376	71.029	70.791	70.708
82.0	77.622	78.786	76.590	74.252	71.710	69.171	67.572	67.105	66.950	66.796
82.5	73.017	73.856	72.561	70.370	67.710	65.272	63.677	63.243	63.055	62.938

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83.0	68.428	70.061	68.579	66.337	63.903	61.464	59.932	59.414	59.118	59.118
83.5	63.794	66.291	64.554	62.187	59.698	57.594	56.041	55.344	55.127	55.160
84.0	59.039	61.727	60.412	57.928	55.686	53.515	51.866	51.365	51.060	51.135
84.5	54.041	57.051	56.137	53.469	51.223	49.298	47.741	47.265	47.048	47.002
85.0	49.056	52.321	51.670	48.923	46.806	44.919	43.591	43.044	42.835	42.827
85.5	44.101	47.269	46.956	44.234	42.055	40.560	39.303	38.757	38.473	38.581
86.0	39.116	43.328	42.092	39.521	37.525	35.984	34.874	34.515	34.168	34.318
86.5	34.302	38.272	37.082	34.669	32.774	31.388	30.373	30.214	29.922	30.035
87.0	29.254	32.928	31.855	29.676	27.689	26.841	26.073	25.994	25.731	25.843
87.5	24.002	28.094	26.904	24.603	22.975	22.303	21.773	21.773	21.535	21.656
88.0	18.733	22.111	21.226	19.531	18.270	17.760	17.472	17.548	17.343	17.468
88.5	13.469	16.120	15.518	14.458	13.560	13.218	13.172	13.327	13.151	13.285
89.0	8.200	10.129	9.811	9.385	8.851	8.676	8.872	9.106	8.955	9.097
89.5	2.931	4.137	4.104	4.313	4.730	4.901	5.160	5.306	5.235	5.419
90.0	2.158	3.298	3.215	1.227	1.616	1.816	2.138	2.246	2.284	2.501
90.5	1.591	2.609	2.518	0.443	1.290	1.344	1.511	1.616	1.683	1.820
91.0	1.023	1.916	1.820	0.417	0.977	0.977	1.056	1.111	1.144	1.240
91.5	0.455	1.223	1.123	0.422	0.664	0.610	0.601	0.601	0.610	0.660
92.0	0.426	0.534	0.426	0.417	0.355	0.242	0.146	0.096	0.071	0.083
92.5	0.455	0.539	0.417	0.401	0.330	0.225	0.117	0.071	0.063	0.063
93.0	0.455	0.551	0.447	0.413	0.326	0.225	0.117	0.075	0.067	0.067
93.5	0.476	0.576	0.480	0.430	0.338	0.230	0.129	0.079	0.071	0.071
94.0	0.476	0.576	0.501	0.443	0.355	0.234	0.138	0.092	0.079	0.079
94.5	0.476	0.576	0.539	0.459	0.334	0.246	0.146	0.100	0.088	0.083
95.0	0.484	0.601	0.551	0.472	0.342	0.234	0.150	0.109	0.092	0.088
95.5	0.484	0.618	0.551	0.463	0.355	0.238	0.146	0.113	0.096	0.092
96.0	0.493	0.635	0.568	0.459	0.376	0.246	0.146	0.113	0.096	0.092
96.5	0.505	0.660	0.580	0.455	0.376	0.255	0.150	0.113	0.100	0.092
97.0	0.509	0.668	0.593	0.455	0.372	0.263	0.154	0.113	0.100	0.096
97.5	0.505	0.689	0.597	0.459	0.367	0.259	0.154	0.113	0.100	0.096
98.0	0.497	0.735	0.601	0.459	0.355	0.255	0.154	0.113	0.096	0.096
98.5	0.488	0.797	0.605	0.459	0.347	0.250	0.154	0.109	0.096	0.096
99.0	0.480	0.822	0.593	0.459	0.342	0.242	0.150	0.109	0.096	0.092
99.5	0.476	0.806	0.580	0.468	0.342	0.238	0.146	0.109	0.096	0.092
100.0	0.472	0.768	0.568	0.476	0.351	0.230	0.146	0.109	0.096	0.092
100.5	0.472	0.731	0.555	0.472	0.359	0.225	0.146	0.109	0.092	0.092
101.0	0.472	0.697	0.543	0.468	0.363	0.225	0.146	0.109	0.092	0.092
101.5	0.476	0.672	0.526	0.463	0.367	0.230	0.146	0.109	0.096	0.096
102.0	0.476	0.647	0.518	0.472	0.363	0.230	0.146	0.109	0.096	0.096
102.5	0.480	0.626	0.505	0.472	0.355	0.234	0.146	0.109	0.096	0.096
103.0	0.484	0.610	0.501	0.468	0.351	0.234	0.146	0.113	0.096	0.100
103.5	0.488	0.589	0.493	0.455	0.351	0.234	0.146	0.113	0.100	0.100
104.0	0.501	0.576	0.484	0.443	0.347	0.230	0.150	0.113	0.100	0.100
104.5	0.505	0.564	0.476	0.434	0.347	0.230	0.150	0.113	0.100	0.104
105.0	0.509	0.551	0.468	0.426	0.347	0.225	0.154	0.113	0.104	0.104
105.5	0.509	0.543	0.463	0.422	0.342	0.225	0.154	0.113	0.104	0.104
106.0	0.509	0.539	0.463	0.417	0.338	0.225	0.154	0.117	0.109	0.109
106.5	0.509	0.534	0.459	0.417	0.330	0.230	0.159	0.117	0.109	0.109
107.0	0.505	0.530	0.463	0.417	0.326	0.225	0.159	0.117	0.109	0.113
107.5	0.501	0.518	0.468	0.409	0.317	0.225	0.159	0.117	0.113	0.113
108.0	0.493	0.514	0.476	0.397	0.313	0.225	0.159	0.121	0.113	0.117
108.5	0.480	0.505	0.472	0.388	0.309	0.225	0.159	0.121	0.117	0.117
109.0	0.468	0.493	0.476	0.380	0.305	0.225	0.163	0.125	0.117	0.121
109.5	0.463	0.484	0.472	0.372	0.305	0.225	0.163	0.129	0.121	0.121
110.0	0.463	0.480	0.463	0.367	0.305	0.225	0.167	0.129	0.121	0.125
110.5	0.463	0.476	0.455	0.363	0.301	0.225	0.167	0.134	0.125	0.125

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111.0	0.459	0.476	0.447	0.355	0.301	0.225	0.171	0.138	0.125	0.129
111.5	0.455	0.472	0.438	0.351	0.296	0.225	0.175	0.138	0.129	0.134
112.0	0.451	0.463	0.430	0.347	0.296	0.225	0.175	0.142	0.134	0.134
112.5	0.447	0.455	0.422	0.347	0.296	0.230	0.180	0.146	0.134	0.138
113.0	0.438	0.447	0.417	0.351	0.292	0.225	0.180	0.146	0.138	0.138
113.5	0.443	0.438	0.405	0.351	0.288	0.225	0.180	0.150	0.138	0.142
114.0	0.447	0.434	0.397	0.351	0.288	0.225	0.180	0.154	0.142	0.146
114.5	0.447	0.438	0.388	0.351	0.288	0.230	0.180	0.154	0.146	0.150
115.0	0.451	0.438	0.388	0.351	0.292	0.234	0.180	0.159	0.146	0.150
115.5	0.451	0.438	0.380	0.351	0.292	0.234	0.184	0.163	0.150	0.154
116.0	0.451	0.434	0.380	0.347	0.292	0.238	0.184	0.163	0.154	0.159
116.5	0.455	0.438	0.384	0.342	0.292	0.238	0.184	0.167	0.159	0.163
117.0	0.455	0.434	0.384	0.342	0.288	0.238	0.188	0.171	0.163	0.167
117.5	0.455	0.430	0.384	0.342	0.288	0.238	0.188	0.171	0.163	0.167
118.0	0.451	0.426	0.380	0.342	0.292	0.238	0.192	0.175	0.167	0.171
118.5	0.455	0.422	0.380	0.342	0.292	0.242	0.196	0.175	0.171	0.175
119.0	0.451	0.422	0.376	0.342	0.296	0.242	0.200	0.180	0.180	0.180
119.5	0.447	0.422	0.380	0.342	0.301	0.242	0.205	0.180	0.180	0.180
120.0	0.451	0.413	0.380	0.347	0.301	0.242	0.205	0.184	0.180	0.184
120.5	0.451	0.413	0.380	0.347	0.301	0.242	0.209	0.184	0.184	0.188
121.0	0.443	0.422	0.384	0.347	0.305	0.246	0.209	0.188	0.188	0.192
121.5	0.451	0.417	0.380	0.347	0.305	0.246	0.213	0.192	0.192	0.196
122.0	0.447	0.417	0.376	0.347	0.309	0.246	0.213	0.192	0.196	0.196
122.5	0.447	0.413	0.380	0.351	0.309	0.250	0.213	0.196	0.196	0.200
123.0	0.443	0.413	0.384	0.355	0.309	0.255	0.217	0.200	0.200	0.205
123.5	0.438	0.417	0.380	0.359	0.309	0.259	0.217	0.200	0.205	0.209
124.0	0.438	0.413	0.380	0.359	0.309	0.259	0.221	0.205	0.209	0.213
124.5	0.447	0.413	0.376	0.367	0.309	0.263	0.225	0.205	0.213	0.217
125.0	0.443	0.417	0.376	0.367	0.309	0.263	0.225	0.209	0.213	0.221
125.5	0.443	0.417	0.380	0.367	0.313	0.267	0.230	0.213	0.217	0.225
126.0	0.443	0.417	0.384	0.363	0.313	0.267	0.230	0.213	0.221	0.230
126.5	0.438	0.417	0.384	0.367	0.317	0.267	0.234	0.217	0.221	0.230
127.0	0.438	0.413	0.384	0.367	0.321	0.271	0.238	0.221	0.225	0.234
127.5	0.447	0.409	0.388	0.367	0.321	0.271	0.238	0.225	0.225	0.234
128.0	0.438	0.413	0.388	0.372	0.321	0.276	0.242	0.230	0.230	0.238
128.5	0.434	0.413	0.392	0.367	0.321	0.276	0.242	0.234	0.230	0.242
129.0	0.447	0.413	0.397	0.367	0.321	0.276	0.246	0.238	0.234	0.246
129.5	0.447	0.417	0.397	0.372	0.326	0.280	0.250	0.242	0.234	0.246
130.0	0.438	0.413	0.392	0.367	0.326	0.280	0.250	0.246	0.238	0.250
130.5	0.434	0.409	0.392	0.376	0.326	0.284	0.255	0.250	0.242	0.255
131.0	0.443	0.413	0.392	0.372	0.330	0.284	0.259	0.255	0.246	0.259
131.5	0.443	0.405	0.388	0.376	0.330	0.284	0.263	0.255	0.250	0.267
132.0	0.438	0.405	0.388	0.380	0.330	0.284	0.267	0.259	0.250	0.267
132.5	0.438	0.401	0.392	0.380	0.330	0.280	0.267	0.263	0.255	0.271
133.0	0.443	0.401	0.388	0.376	0.330	0.280	0.271	0.263	0.259	0.276
133.5	0.438	0.397	0.392	0.376	0.334	0.284	0.271	0.263	0.259	0.276
134.0	0.430	0.401	0.392	0.376	0.330	0.284	0.276	0.267	0.259	0.276
134.5	0.434	0.401	0.397	0.372	0.326	0.284	0.276	0.267	0.263	0.280
135.0	0.434	0.405	0.392	0.372	0.326	0.284	0.284	0.267	0.263	0.280
135.5	0.434	0.405	0.392	0.372	0.326	0.284	0.288	0.267	0.263	0.280
136.0	0.434	0.409	0.397	0.372	0.326	0.284	0.288	0.271	0.263	0.280
136.5	0.434	0.409	0.397	0.372	0.326	0.288	0.292	0.271	0.267	0.284
137.0	0.434	0.409	0.401	0.376	0.330	0.292	0.292	0.276	0.267	0.284
137.5	0.434	0.405	0.401	0.376	0.330	0.292	0.296	0.280	0.271	0.284
138.0	0.434	0.401	0.405	0.376	0.330	0.292	0.296	0.280	0.271	0.288
138.5	0.434	0.405	0.405	0.372	0.330	0.292	0.296	0.284	0.276	0.292

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139.0	0.434	0.409	0.401	0.372	0.330	0.292	0.296	0.288	0.280	0.292
139.5	0.430	0.409	0.405	0.372	0.326	0.292	0.301	0.288	0.280	0.292
140.0	0.430	0.413	0.405	0.372	0.317	0.292	0.301	0.292	0.284	0.296
140.5	0.434	0.409	0.401	0.372	0.317	0.296	0.301	0.292	0.284	0.301
141.0	0.434	0.409	0.401	0.376	0.317	0.301	0.301	0.296	0.288	0.301
141.5	0.434	0.405	0.401	0.380	0.313	0.301	0.301	0.296	0.288	0.305
142.0	0.434	0.405	0.401	0.376	0.309	0.309	0.301	0.301	0.292	0.305
142.5	0.430	0.405	0.405	0.380	0.313	0.313	0.305	0.301	0.296	0.305
143.0	0.430	0.405	0.405	0.380	0.317	0.313	0.305	0.301	0.296	0.309
143.5	0.430	0.405	0.405	0.376	0.321	0.317	0.305	0.296	0.301	0.309
144.0	0.430	0.409	0.409	0.367	0.321	0.321	0.305	0.296	0.301	0.309
144.5	0.430	0.409	0.413	0.363	0.321	0.326	0.305	0.296	0.301	0.309
145.0	0.430	0.413	0.409	0.363	0.330	0.326	0.305	0.296	0.301	0.309
145.5	0.426	0.417	0.409	0.359	0.330	0.326	0.309	0.301	0.301	0.309
146.0	0.430	0.417	0.409	0.355	0.334	0.326	0.309	0.301	0.301	0.309
146.5	0.434	0.417	0.405	0.351	0.334	0.330	0.313	0.301	0.301	0.309
147.0	0.434	0.413	0.392	0.359	0.334	0.334	0.313	0.305	0.301	0.309
147.5	0.430	0.409	0.384	0.359	0.338	0.342	0.317	0.305	0.305	0.313
148.0	0.426	0.401	0.384	0.359	0.347	0.355	0.317	0.309	0.305	0.313
148.5	0.413	0.388	0.376	0.363	0.355	0.347	0.317	0.309	0.305	0.313
149.0	0.397	0.384	0.372	0.367	0.359	0.347	0.321	0.313	0.309	0.313
149.5	0.392	0.380	0.372	0.367	0.367	0.347	0.321	0.313	0.313	0.317
150.0	0.388	0.372	0.376	0.367	0.372	0.351	0.321	0.313	0.313	0.317
150.5	0.380	0.372	0.380	0.367	0.372	0.351	0.317	0.317	0.313	0.317
151.0	0.376	0.376	0.384	0.372	0.372	0.351	0.313	0.321	0.317	0.317
151.5	0.380	0.380	0.401	0.380	0.372	0.351	0.309	0.321	0.321	0.321
152.0	0.384	0.380	0.401	0.384	0.372	0.351	0.309	0.321	0.326	0.326
152.5	0.388	0.388	0.401	0.388	0.372	0.355	0.309	0.321	0.326	0.326
153.0	0.401	0.397	0.405	0.392	0.376	0.351	0.309	0.326	0.321	0.326
153.5	0.409	0.397	0.409	0.392	0.380	0.351	0.309	0.334	0.321	0.321
154.0	0.409	0.401	0.417	0.397	0.384	0.347	0.313	0.334	0.317	0.317
154.5	0.413	0.405	0.422	0.405	0.380	0.347	0.317	0.330	0.321	0.317
155.0	0.417	0.413	0.422	0.413	0.380	0.347	0.321	0.330	0.321	0.321
155.5	0.422	0.422	0.422	0.409	0.380	0.342	0.321	0.330	0.321	0.321
156.0	0.430	0.430	0.426	0.405	0.380	0.338	0.321	0.334	0.321	0.321
156.5	0.430	0.430	0.430	0.405	0.380	0.334	0.321	0.334	0.326	0.321
157.0	0.434	0.434	0.426	0.409	0.376	0.334	0.317	0.334	0.326	0.321
157.5	0.438	0.438	0.426	0.413	0.372	0.330	0.317	0.334	0.326	0.321
158.0	0.438	0.438	0.426	0.417	0.372	0.330	0.321	0.334	0.330	0.321
158.5	0.438	0.447	0.430	0.422	0.372	0.326	0.321	0.334	0.330	0.321
159.0	0.443	0.459	0.430	0.422	0.367	0.330	0.321	0.338	0.330	0.321
159.5	0.443	0.455	0.430	0.422	0.372	0.330	0.321	0.342	0.334	0.321
160.0	0.443	0.447	0.430	0.417	0.376	0.330	0.321	0.342	0.334	0.326
160.5	0.443	0.451	0.426	0.417	0.376	0.330	0.321	0.338	0.334	0.326
161.0	0.443	0.451	0.430	0.413	0.380	0.330	0.326	0.334	0.334	0.326
161.5	0.443	0.447	0.430	0.409	0.380	0.334	0.330	0.334	0.330	0.326
162.0	0.443	0.443	0.426	0.409	0.384	0.338	0.326	0.334	0.330	0.321
162.5	0.443	0.443	0.422	0.413	0.388	0.338	0.326	0.334	0.330	0.321
163.0	0.447	0.447	0.422	0.413	0.392	0.342	0.330	0.334	0.330	0.326
163.5	0.447	0.443	0.422	0.409	0.392	0.347	0.334	0.334	0.334	0.330
164.0	0.443	0.443	0.422	0.413	0.392	0.355	0.338	0.334	0.334	0.330
164.5	0.443	0.443	0.426	0.413	0.397	0.359	0.342	0.342	0.334	0.334
165.0	0.443	0.443	0.426	0.413	0.405	0.363	0.347	0.347	0.338	0.338
165.5	0.447	0.447	0.430	0.417	0.405	0.376	0.355	0.347	0.342	0.347
166.0	0.451	0.451	0.434	0.413	0.409	0.376	0.363	0.342	0.347	0.367
166.5	0.455	0.451	0.438	0.417	0.413	0.380	0.363	0.351	0.355	0.388

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CANDELA TABULATION - (Cont.)

167.0	0.455	0.451	0.443	0.430	0.413	0.384	0.363	0.355	0.363	0.392
167.5	0.455	0.459	0.447	0.430	0.417	0.388	0.376	0.359	0.367	0.384
168.0	0.463	0.468	0.447	0.434	0.417	0.392	0.376	0.363	0.372	0.376
168.5	0.468	0.468	0.451	0.443	0.417	0.392	0.380	0.363	0.372	0.367
169.0	0.472	0.472	0.455	0.443	0.422	0.388	0.376	0.372	0.372	0.363
169.5	0.472	0.472	0.459	0.443	0.426	0.388	0.372	0.372	0.380	0.367
170.0	0.472	0.472	0.459	0.443	0.426	0.384	0.367	0.372	0.388	0.372
170.5	0.468	0.472	0.459	0.443	0.426	0.388	0.363	0.376	0.388	0.384
171.0	0.468	0.468	0.463	0.447	0.426	0.388	0.359	0.376	0.392	0.401
171.5	0.472	0.476	0.468	0.447	0.430	0.388	0.363	0.376	0.392	0.384
172.0	0.476	0.480	0.472	0.451	0.434	0.392	0.367	0.380	0.392	0.372
172.5	0.480	0.480	0.472	0.459	0.438	0.405	0.372	0.384	0.397	0.372
173.0	0.484	0.484	0.476	0.463	0.443	0.413	0.384	0.397	0.397	0.376
173.5	0.488	0.488	0.484	0.472	0.455	0.426	0.392	0.409	0.405	0.380
174.0	0.493	0.497	0.493	0.480	0.468	0.438	0.409	0.422	0.413	0.388
174.5	0.497	0.497	0.497	0.488	0.476	0.451	0.422	0.430	0.422	0.397
175.0	0.497	0.497	0.497	0.493	0.484	0.459	0.422	0.434	0.426	0.405
175.5	0.497	0.497	0.497	0.493	0.488	0.463	0.426	0.438	0.430	0.409
176.0	0.493	0.497	0.497	0.493	0.493	0.468	0.430	0.443	0.434	0.409
176.5	0.493	0.497	0.497	0.493	0.493	0.472	0.438	0.451	0.438	0.413
177.0	0.493	0.497	0.493	0.493	0.488	0.472	0.447	0.455	0.438	0.422
177.5	0.488	0.493	0.488	0.488	0.484	0.472	0.451	0.459	0.443	0.430
178.0	0.484	0.493	0.488	0.484	0.484	0.472	0.455	0.455	0.443	0.438
178.5	0.480	0.484	0.484	0.480	0.480	0.472	0.463	0.455	0.447	0.447
179.0	0.476	0.484	0.480	0.476	0.476	0.468	0.468	0.451	0.451	0.455
179.5	0.476	0.484	0.484	0.476	0.472	0.468	0.472	0.447	0.451	0.459
180.0	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476

Vert. Angles	Horizontal Angles									
	100	110	120	130	140	150	160	170	180	190
0.0	885.238	885.238	885.238	885.238	885.238	885.238	885.238	885.238	885.238	885.238
0.5	885.330	885.242	885.238	885.234	885.234	885.042	885.042	884.941	884.937	885.033
1.0	885.430	885.338	885.334	885.234	885.133	885.033	884.937	884.737	884.641	884.741
1.5	885.434	885.338	885.238	885.138	885.042	884.941	884.837	884.645	884.445	884.532
2.0	885.142	885.150	885.142	884.941	884.941	884.841	884.653	884.545	884.227	884.156
2.5	884.858	884.753	884.849	884.662	884.549	884.453	884.169	883.969	883.760	883.756
3.0	884.561	884.453	884.457	884.269	884.265	884.056	883.672	883.463	883.263	883.163
3.5	884.073	883.985	883.860	883.772	883.689	883.493	883.179	883.063	882.666	882.553
4.0	883.764	883.488	883.292	883.075	882.983	882.896	882.678	882.495	882.165	881.860
4.5	883.117	882.983	882.603	882.415	882.278	882.286	882.023	881.793	881.368	881.163
5.0	882.328	882.094	881.998	881.814	881.622	881.493	881.330	880.996	880.474	880.357
5.5	881.618	881.334	881.297	881.117	880.925	880.737	880.437	880.153	879.672	879.518
6.0	880.829	880.549	880.411	880.324	880.132	879.944	879.727	879.447	878.925	878.712
6.5	879.944	879.656	879.518	879.334	879.242	879.055	878.942	878.654	878.028	877.810
7.0	878.938	878.662	878.583	878.433	878.336	878.157	877.844	877.660	877.030	876.821
7.5	877.944	877.765	877.489	877.410	877.309	877.159	876.813	876.562	875.936	875.823
8.0	876.821	876.566	876.391	876.211	876.124	876.036	875.710	875.527	874.742	874.704
8.5	875.915	875.443	875.393	875.113	874.930	874.754	874.612	874.529	873.627	873.397
9.0	874.625	874.157	874.095	873.823	873.731	873.452	873.218	873.151	872.304	872.078
9.5	873.347	872.967	872.713	872.633	872.458	872.362	871.924	871.769	871.097	870.496
10.0	871.957	871.686	871.502	871.343	871.076	870.980	870.634	870.287	869.515	869.110
10.5	870.454	870.099	870.024	869.845	869.673	869.485	869.131	868.792	868.012	867.703
11.0	868.763	868.496	868.408	868.246	868.079	867.991	867.628	867.285	866.417	866.116
11.5	867.068	866.822	866.617	866.550	866.396	866.321	866.024	865.707	864.826	864.521
12.0	865.181	865.131	865.027	864.951	864.709	864.617	864.438	864.016	863.110	862.509

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12.5	863.482	863.340	863.240	863.073	863.006	862.835	862.755	862.217	861.315	860.605
13.0	861.394	861.282	861.361	861.190	861.140	860.964	860.801	860.451	859.532	858.718
13.5	859.336	859.190	859.382	859.307	859.161	859.073	858.902	858.564	857.733	856.839
14.0	857.165	857.182	857.186	857.240	857.278	857.069	856.915	856.656	855.637	854.856
14.5	855.053	854.919	855.078	855.228	855.178	855.161	854.823	854.593	853.483	853.065
15.0	852.769	852.614	852.927	853.040	853.069	853.015	852.715	852.489	851.391	850.652
15.5	850.389	850.239	850.644	850.569	850.882	850.727	850.731	850.310	849.283	848.418
16.0	847.984	847.930	848.160	848.356	848.590	848.527	848.477	848.105	847.066	845.989
16.5	845.458	845.525	845.667	846.018	846.243	846.131	846.093	845.813	844.686	843.705
17.0	843.150	842.999	843.158	843.534	843.759	843.780	843.588	843.463	842.310	841.217
17.5	840.519	840.357	840.436	840.891	841.116	841.434	841.154	840.941	839.772	838.812
18.0	837.781	837.555	837.806	838.073	838.607	838.849	838.507	838.323	837.259	836.136
18.5	834.950	834.779	835.021	835.280	835.747	836.156	835.927	835.559	834.361	833.409
19.0	832.036	832.002	832.161	832.203	832.850	833.368	833.251	832.850	831.752	830.387
19.5	829.289	828.963	829.222	829.368	829.927	830.629	830.516	829.923	828.867	827.610
20.0	826.111	825.986	826.120	826.475	827.226	827.740	827.710	826.934	826.045	824.629
20.5	823.034	822.801	823.043	823.389	824.145	824.659	824.558	824.057	822.951	821.536
21.0	820.012	819.690	819.728	820.187	821.060	821.548	821.540	820.976	819.816	818.383
21.5	816.713	816.496	816.709	816.885	817.841	818.371	818.338	817.665	816.501	815.094
22.0	813.553	813.131	813.244	813.607	814.384	815.085	815.069	814.392	813.394	811.800
22.5	810.092	809.612	809.892	810.046	811.006	811.641	811.795	811.324	809.887	808.376
23.0	806.464	806.272	806.355	806.456	807.583	808.134	808.318	807.817	806.489	804.986
23.5	803.207	802.865	803.266	803.237	804.234	804.723	804.902	804.305	802.919	801.324
24.0	799.224	799.112	799.454	799.571	800.602	801.153	801.395	800.924	799.345	797.751
24.5	795.655	795.379	795.601	795.939	796.565	797.358	797.671	797.116	795.513	793.893
25.0	792.102	791.572	791.709	792.152	792.795	793.526	793.651	793.325	791.601	789.985
25.5	788.044	787.534	787.935	788.486	789.025	789.584	789.756	789.438	787.626	786.073
26.0	784.002	783.447	783.689	784.482	784.892	785.401	785.885	785.472	783.535	781.844
26.5	779.802	779.385	779.552	780.161	780.683	781.355	781.760	781.059	779.402	777.819
27.0	775.899	775.201	775.343	775.945	776.688	777.272	777.648	776.930	775.051	773.456
27.5	771.452	770.918	771.269	771.682	772.433	773.064	773.390	772.575	770.839	768.893
28.0	766.939	766.413	766.563	767.490	767.824	768.300	768.496	767.874	766.346	764.309
28.5	762.476	761.950	762.092	762.910	763.190	763.850	764.033	763.411	761.587	759.796
29.0	757.921	757.512	757.746	758.159	758.819	759.270	759.549	758.652	756.731	754.777
29.5	753.053	752.840	753.216	753.562	754.247	754.502	754.673	753.817	752.059	750.014
30.0	748.114	748.014	748.051	748.853	749.350	749.504	749.859	748.882	747.095	745.162
30.5	742.879	743.100	743.405	743.918	744.436	744.678	744.757	743.776	741.931	739.964
31.0	738.215	738.019	738.432	738.962	739.355	739.672	739.576	738.691	736.624	734.554
31.5	732.829	732.800	733.264	733.827	734.253	734.462	734.266	733.702	731.447	729.197
32.0	727.661	727.640	727.966	728.767	729.076	729.226	729.101	728.162	726.024	723.857
32.5	722.379	722.363	722.730	723.457	723.603	724.037	723.494	722.834	720.342	718.016
33.0	716.939	716.856	717.445	718.062	718.087	718.438	717.979	717.131	714.885	712.551
33.5	711.332	711.144	711.625	712.401	712.480	712.727	712.242	711.420	709.316	706.811
34.0	705.433	705.441	705.805	706.590	706.556	706.898	706.523	705.404	703.329	700.603
34.5	699.576	699.847	700.181	700.803	700.982	701.141	700.544	699.638	697.212	694.524
35.0	693.981	693.789	694.419	695.112	695.208	695.267	694.753	693.668	691.134	688.403
35.5	687.752	687.485	688.445	688.942	688.975	689.130	688.399	687.334	684.950	682.082
36.0	681.602	681.364	681.932	682.433	682.667	682.917	682.270	681.084	678.634	675.736
36.5	675.060	675.185	675.695	676.104	676.555	676.504	675.749	674.672	672.284	669.123
37.0	668.205	668.417	669.190	669.850	670.100	669.900	669.323	667.942	665.654	662.627
37.5	661.508	661.541	662.410	663.032	663.395	663.086	662.614	661.353	658.848	655.905
38.0	654.769	654.932	655.763	656.222	656.690	656.515	656.135	654.653	652.264	649.137
38.5	647.680	647.789	648.883	649.572	650.077	649.876	649.267	647.760	645.217	642.265
39.0	640.257	640.462	641.718	642.695	642.825	642.729	642.382	640.687	638.466	635.139
39.5	632.738	633.235	634.253	635.581	635.740	635.452	635.184	633.798	631.573	628.275
40.0	625.089	625.878	627.022	628.250	628.563	628.383	628.212	626.688	624.488	621.060

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40.5	617.036	617.988	619.311	620.793	621.349	621.111	620.710	619.399	617.132	613.846
41.0	608.769	609.784	611.466	613.232	613.608	613.554	613.287	611.850	609.771	606.632
41.5	600.778	602.127	603.859	605.638	606.010	605.972	605.751	604.790	602.415	599.417
42.0	592.270	594.503	596.374	597.931	598.528	598.586	598.361	597.234	595.054	592.182
42.5	583.531	585.460	587.990	590.032	590.746	590.733	590.575	589.264	587.686	584.016
43.0	574.476	576.668	579.611	581.724	582.592	582.880	582.458	581.248	579.766	576.112
43.5	565.495	567.988	571.249	573.399	574.380	574.877	574.509	573.566	572.008	568.117
44.0	556.469	559.463	563.066	565.500	566.397	566.852	566.355	565.508	563.817	559.976
44.5	546.883	550.541	554.306	557.054	558.223	558.582	558.461	557.241	555.680	551.730
45.0	537.360	541.193	545.627	548.524	549.664	550.215	550.198	549.050	547.376	543.351
45.5	527.879	532.054	536.934	539.999	541.477	541.794	541.723	540.838	539.297	534.968
46.0	518.155	523.027	528.304	531.720	533.210	533.415	533.310	532.521	530.880	526.584
46.5	507.726	513.316	519.195	522.839	524.522	524.455	524.839	523.599	522.393	518.151
47.0	497.238	503.213	509.985	514.101	515.278	515.855	515.884	514.769	513.567	509.500
47.5	486.918	493.372	500.992	505.325	506.824	507.463	507.492	506.181	504.912	500.825
48.0	476.451	483.690	491.873	496.892	498.253	498.850	498.566	497.656	496.228	492.128
48.5	465.391	473.587	482.271	487.966	489.527	489.644	489.686	488.984	487.590	483.306
49.0	454.545	462.832	472.489	478.898	480.275	480.664	480.714	480.058	478.705	474.631
49.5	443.748	452.420	462.765	469.625	471.863	472.105	471.737	471.136	469.746	465.801
50.0	432.593	441.707	453.088	460.791	463.245	462.966	462.807	462.068	460.907	457.016
50.5	421.558	430.977	442.830	451.530	454.182	453.935	453.647	452.946	451.973	448.299
51.0	410.903	420.460	432.710	442.166	444.880	445.535	444.804	444.116	442.909	438.976
51.5	400.466	409.805	422.548	432.601	436.584	436.229	435.736	434.897	434.050	430.321
52.0	389.903	398.946	412.027	423.120	427.745	427.391	426.706	425.829	425.036	421.366
52.5	379.754	388.459	401.405	413.546	418.631	418.377	417.583	416.661	416.060	412.749
53.0	369.918	378.359	391.248	403.827	409.459	409.876	408.511	407.534	406.962	403.581
53.5	360.490	368.494	381.127	394.103	400.629	400.671	399.765	398.704	398.141	394.801
54.0	350.871	358.428	370.573	383.812	391.469	392.179	390.609	389.832	389.252	385.908
54.5	341.987	348.959	360.444	373.884	382.250	383.161	381.862	380.668	380.088	377.007
55.0	333.157	339.749	350.859	364.248	372.982	374.510	372.990	372.013	371.588	368.306
55.5	324.715	330.760	341.085	354.382	363.993	365.509	364.306	363.104	362.691	359.839
56.0	315.851	321.692	331.353	344.108	354.583	356.578	355.042	354.132	354.295	351.314
56.5	307.802	313.004	322.009	334.330	345.139	347.844	346.717	345.527	345.151	342.500
57.0	299.819	304.767	313.313	324.836	335.996	339.411	338.250	336.902	336.881	334.067
57.5	292.367	296.496	304.884	315.688	326.493	330.685	329.821	328.514	328.226	325.842
58.0	284.948	291.595	296.003	306.086	317.166	322.034	321.003	320.043	319.959	317.571
58.5	277.525	283.303	292.409	297.285	308.036	313.363	313.062	311.994	311.643	309.409
59.0	270.102	274.828	283.520	290.025	298.863	304.783	304.884	303.873	303.669	301.351
59.5	262.678	266.352	274.268	281.491	289.515	296.158	296.759	295.603	295.715	293.573
60.0	255.259	257.877	265.021	272.870	281.053	286.401	288.964	291.544	287.887	285.724
60.5	248.788	250.880	255.773	264.248	272.644	278.535	281.136	283.236	280.097	277.988
61.0	242.213	244.075	248.375	255.627	264.236	270.674	273.308	274.690	272.590	270.569
61.5	235.746	237.136	241.269	247.991	255.827	262.816	265.480	266.144	265.271	263.196
62.0	229.650	230.781	234.255	240.326	247.941	254.955	257.652	257.597	258.199	256.115
62.5	223.730	224.364	227.525	233.136	240.200	247.340	250.550	250.237	251.176	249.085
63.0	217.843	218.282	220.962	226.160	232.852	239.921	243.532	243.728	244.212	242.300
63.5	212.073	212.165	214.466	219.296	225.533	232.531	236.530	236.881	237.679	235.704
64.0	206.829	206.617	208.358	212.720	218.553	225.350	229.805	230.389	231.237	229.258
64.5	201.477	200.989	202.454	206.212	211.743	218.561	223.287	223.884	224.945	222.932
65.0	196.192	195.478	196.617	200.062	205.414	211.948	216.866	218.039	218.904	216.908
65.5	191.152	190.167	190.935	194.046	198.960	205.514	210.654	211.969	212.975	211.101
66.0	186.222	185.170	185.458	188.163	192.835	199.264	204.642	206.132	207.289	205.402
66.5	181.425	180.151	180.264	182.556	187.036	193.495	199.077	200.471	201.703	199.761
67.0	176.678	175.342	175.116	177.116	181.496	187.804	193.532	195.377	196.392	194.622
67.5	172.210	170.578	170.056	171.864	175.968	182.356	188.100	190.054	191.186	189.382
68.0	167.885	166.157	165.288	166.812	170.808	177.275	182.986	185.170	186.234	184.393

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68.5	163.522	161.748	160.775	161.986	165.818	172.240	178.206	180.147	181.400	179.634
69.0	159.351	157.544	156.245	157.276	161.101	167.351	173.417	175.609	176.799	174.987
69.5	155.323	153.335	151.790	152.621	156.312	162.750	168.753	170.954	172.294	170.394
70.0	151.427	149.402	147.615	148.271	151.924	158.437	164.366	166.733	167.793	165.952
70.5	147.590	145.524	143.712	144.188	147.787	154.133	160.170	162.286	163.526	161.727
71.0	143.879	141.933	139.888	140.096	143.741	150.037	156.061	158.312	159.493	157.615
71.5	140.297	138.372	136.113	136.151	139.712	146.067	152.074	154.295	155.586	153.473
72.0	136.731	134.756	132.448	132.360	135.896	142.288	148.116	150.442	151.594	149.569
72.5	133.224	131.300	129.091	128.845	132.289	138.526	144.334	146.476	147.724	145.595
73.0	129.834	128.118	125.659	125.367	128.761	134.978	140.572	142.823	144.025	141.766
73.5	126.644	124.958	122.540	122.069	125.388	131.437	136.969	139.073	140.334	137.917
74.0	123.300	121.826	119.384	118.883	122.194	128.064	133.425	135.491	136.689	134.226
74.5	119.810	118.628	116.403	115.773	118.962	124.720	129.763	131.897	133.099	130.523
75.0	116.604	115.543	113.322	112.733	115.831	121.309	126.189	128.331	129.579	126.832
75.5	113.213	112.353	110.370	109.782	112.783	118.115	122.641	124.657	126.052	123.158
76.0	109.782	109.126	107.464	106.976	109.878	114.842	119.209	121.175	122.482	119.526
76.5	106.287	105.882	104.542	104.124	106.959	111.598	115.681	117.660	118.900	115.794
77.0	102.960	102.538	101.382	101.298	103.957	108.312	112.074	114.044	115.309	112.115
77.5	99.532	99.252	98.342	98.488	101.077	105.060	108.621	110.500	111.719	108.475
78.0	96.038	95.845	95.186	95.704	98.163	101.749	105.106	106.884	108.049	104.863
78.5	92.493	92.472	91.938	92.760	95.244	98.405	101.615	104.375	104.304	102.054
79.0	89.061	88.927	88.506	89.641	92.197	94.981	97.987	100.726	100.496	98.605
79.5	85.475	85.458	85.312	86.539	89.103	91.650	95.996	95.841	96.605	94.647
80.0	81.993	81.951	81.989	83.391	86.043	88.276	92.293	91.963	92.610	90.522
80.5	78.340	78.348	78.427	80.072	82.870	84.740	88.489	88.017	88.644	87.082
81.0	74.670	74.699	74.803	76.728	79.463	81.212	84.752	84.769	84.515	83.913
81.5	70.896	70.912	71.313	73.234	75.968	77.630	80.932	81.212	80.373	79.763
82.0	67.151	67.126	67.648	69.689	72.282	74.031	76.194	76.235	76.035	75.200
82.5	63.214	63.255	63.840	65.898	68.391	70.286	72.703	71.948	71.605	71.084
83.0	59.368	59.473	59.978	62.224	64.479	66.433	68.019	67.731	67.176	66.963
83.5	55.390	55.544	56.162	58.337	60.588	62.579	63.986	63.556	62.746	62.846
84.0	51.348	51.436	52.196	54.371	56.496	58.550	60.049	59.573	58.312	58.721
84.5	47.248	47.365	48.067	50.108	52.125	54.680	56.125	55.298	53.803	54.208
85.0	43.099	43.282	43.896	45.825	47.566	49.816	52.764	50.655	49.065	49.695
85.5	38.669	39.045	39.617	41.366	43.111	45.019	48.363	45.745	44.464	45.169
86.0	34.440	34.623	35.191	36.915	38.473	40.381	43.336	41.044	39.600	40.297
86.5	30.223	30.356	30.736	32.160	33.759	35.654	38.122	36.368	34.911	35.103
87.0	26.027	26.148	26.457	27.396	28.849	30.803	32.953	31.642	30.039	30.724
87.5	21.831	21.944	22.186	22.942	24.219	25.739	27.726	27.346	25.175	26.361
88.0	17.639	17.735	17.915	18.483	19.593	20.666	22.186	21.789	20.053	21.180
88.5	13.443	13.531	13.644	14.028	14.967	15.594	16.629	16.141	16.145	15.999
89.0	9.248	9.327	9.373	9.573	10.341	10.521	11.072	10.492	12.237	10.817
89.5	5.607	5.749	5.703	5.657	5.711	5.448	5.515	4.839	8.329	5.636
90.0	2.647	2.701	2.626	2.463	2.171	1.674	1.152	3.908	4.421	0.626
90.5	1.912	2.012	1.929	1.812	1.699	1.303	0.797	3.056	0.622	0.647
91.0	1.307	1.374	1.340	1.307	1.265	1.023	0.701	2.204	0.593	0.655
91.5	0.701	0.735	0.751	0.802	0.831	0.743	0.601	1.353	0.580	0.651
92.0	0.100	0.100	0.163	0.296	0.397	0.463	0.505	0.501	0.580	0.668
92.5	0.067	0.092	0.146	0.276	0.388	0.434	0.518	0.534	0.584	0.660
93.0	0.071	0.100	0.154	0.284	0.388	0.451	0.505	0.509	0.593	0.676
93.5	0.075	0.104	0.154	0.284	0.384	0.443	0.526	0.539	0.601	0.693
94.0	0.079	0.109	0.154	0.276	0.409	0.468	0.551	0.593	0.605	0.701
94.5	0.088	0.113	0.154	0.280	0.380	0.484	0.555	0.622	0.614	0.718
95.0	0.088	0.113	0.154	0.280	0.392	0.501	0.564	0.618	0.622	0.743
95.5	0.088	0.113	0.159	0.271	0.401	0.488	0.580	0.610	0.630	0.768
96.0	0.092	0.117	0.154	0.280	0.422	0.480	0.589	0.593	0.639	0.814

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CANDELA TABULATION - (Cont.)

96.5	0.096	0.117	0.150	0.284	0.422	0.480	0.605	0.601	0.647	0.856
97.0	0.096	0.121	0.150	0.296	0.413	0.493	0.618	0.618	0.651	0.889
97.5	0.096	0.121	0.159	0.301	0.405	0.505	0.622	0.614	0.651	0.914
98.0	0.096	0.121	0.163	0.292	0.392	0.514	0.618	0.589	0.647	0.939
98.5	0.096	0.121	0.167	0.288	0.384	0.514	0.614	0.568	0.647	0.948
99.0	0.096	0.117	0.167	0.284	0.384	0.522	0.614	0.559	0.647	0.944
99.5	0.096	0.117	0.163	0.276	0.384	0.530	0.605	0.559	0.647	0.923
100.0	0.096	0.117	0.159	0.271	0.392	0.522	0.593	0.559	0.651	0.910
100.5	0.096	0.117	0.159	0.267	0.401	0.522	0.584	0.559	0.651	0.902
101.0	0.096	0.117	0.159	0.267	0.405	0.526	0.572	0.555	0.655	0.889
101.5	0.096	0.117	0.159	0.267	0.405	0.534	0.572	0.555	0.660	0.877
102.0	0.096	0.121	0.159	0.271	0.409	0.522	0.580	0.555	0.664	0.852
102.5	0.100	0.121	0.163	0.271	0.413	0.505	0.580	0.555	0.664	0.831
103.0	0.100	0.125	0.163	0.280	0.413	0.493	0.572	0.547	0.664	0.802
103.5	0.100	0.125	0.167	0.280	0.413	0.488	0.572	0.543	0.664	0.789
104.0	0.104	0.125	0.167	0.280	0.409	0.480	0.564	0.551	0.672	0.768
104.5	0.104	0.129	0.167	0.280	0.409	0.476	0.564	0.551	0.672	0.751
105.0	0.109	0.129	0.167	0.284	0.413	0.472	0.564	0.543	0.681	0.743
105.5	0.109	0.129	0.171	0.284	0.413	0.472	0.564	0.534	0.685	0.731
106.0	0.113	0.134	0.171	0.280	0.401	0.459	0.568	0.530	0.681	0.714
106.5	0.113	0.134	0.175	0.280	0.380	0.447	0.564	0.518	0.672	0.706
107.0	0.113	0.138	0.175	0.280	0.367	0.434	0.568	0.509	0.668	0.701
107.5	0.117	0.138	0.175	0.276	0.367	0.426	0.572	0.505	0.660	0.693
108.0	0.121	0.138	0.180	0.276	0.367	0.417	0.576	0.501	0.651	0.676
108.5	0.121	0.142	0.180	0.276	0.367	0.413	0.580	0.497	0.639	0.664
109.0	0.121	0.142	0.180	0.271	0.367	0.409	0.576	0.497	0.630	0.655
109.5	0.121	0.146	0.180	0.276	0.367	0.405	0.576	0.493	0.618	0.655
110.0	0.125	0.146	0.180	0.276	0.363	0.401	0.576	0.484	0.610	0.651
110.5	0.129	0.150	0.184	0.276	0.359	0.397	0.551	0.480	0.601	0.647
111.0	0.134	0.150	0.188	0.284	0.355	0.392	0.534	0.463	0.593	0.643
111.5	0.134	0.150	0.188	0.288	0.351	0.392	0.526	0.459	0.589	0.639
112.0	0.138	0.154	0.196	0.292	0.347	0.397	0.505	0.455	0.580	0.622
112.5	0.142	0.154	0.196	0.292	0.347	0.392	0.497	0.459	0.572	0.605
113.0	0.146	0.159	0.205	0.288	0.347	0.397	0.484	0.451	0.568	0.597
113.5	0.146	0.163	0.209	0.284	0.351	0.392	0.472	0.451	0.555	0.584
114.0	0.150	0.163	0.213	0.284	0.355	0.392	0.463	0.455	0.547	0.589
114.5	0.154	0.167	0.213	0.280	0.351	0.397	0.459	0.459	0.543	0.576
115.0	0.159	0.171	0.213	0.284	0.355	0.397	0.451	0.455	0.539	0.572
115.5	0.163	0.171	0.213	0.284	0.355	0.397	0.451	0.455	0.530	0.564
116.0	0.167	0.175	0.213	0.284	0.351	0.397	0.443	0.459	0.522	0.551
116.5	0.167	0.175	0.213	0.288	0.351	0.397	0.447	0.455	0.518	0.559
117.0	0.171	0.180	0.217	0.296	0.351	0.401	0.447	0.459	0.522	0.551
117.5	0.175	0.184	0.221	0.296	0.355	0.401	0.447	0.459	0.518	0.539
118.0	0.180	0.188	0.225	0.305	0.355	0.397	0.451	0.455	0.505	0.539
118.5	0.184	0.192	0.230	0.305	0.355	0.397	0.443	0.459	0.509	0.526
119.0	0.184	0.200	0.234	0.301	0.359	0.397	0.438	0.455	0.509	0.522
119.5	0.188	0.205	0.238	0.301	0.359	0.397	0.438	0.455	0.497	0.522
120.0	0.192	0.213	0.238	0.301	0.363	0.397	0.443	0.451	0.488	0.514
120.5	0.196	0.213	0.242	0.301	0.363	0.401	0.443	0.447	0.497	0.505
121.0	0.200	0.217	0.242	0.301	0.363	0.401	0.443	0.443	0.484	0.509
121.5	0.205	0.221	0.242	0.305	0.367	0.401	0.438	0.447	0.476	0.501
122.0	0.205	0.225	0.246	0.309	0.367	0.405	0.438	0.447	0.476	0.505
122.5	0.209	0.230	0.250	0.313	0.372	0.405	0.434	0.447	0.476	0.501
123.0	0.213	0.234	0.255	0.317	0.372	0.409	0.434	0.443	0.472	0.497
123.5	0.217	0.234	0.259	0.317	0.372	0.409	0.430	0.447	0.463	0.488
124.0	0.221	0.238	0.263	0.317	0.372	0.409	0.430	0.451	0.468	0.488

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124.5	0.225	0.242	0.267	0.321	0.367	0.409	0.430	0.455	0.463	0.484
125.0	0.225	0.246	0.267	0.317	0.372	0.405	0.430	0.455	0.455	0.484
125.5	0.230	0.250	0.267	0.326	0.372	0.409	0.426	0.455	0.451	0.480
126.0	0.234	0.263	0.271	0.321	0.376	0.413	0.430	0.447	0.451	0.476
126.5	0.238	0.276	0.276	0.326	0.372	0.413	0.430	0.451	0.451	0.468
127.0	0.238	0.267	0.280	0.326	0.376	0.417	0.434	0.447	0.443	0.468
127.5	0.242	0.271	0.280	0.326	0.376	0.417	0.434	0.451	0.434	0.459
128.0	0.242	0.271	0.284	0.326	0.380	0.422	0.426	0.443	0.443	0.455
128.5	0.246	0.271	0.288	0.326	0.380	0.422	0.430	0.443	0.430	0.463
129.0	0.250	0.271	0.292	0.326	0.380	0.426	0.434	0.443	0.426	0.455
129.5	0.255	0.276	0.292	0.321	0.380	0.417	0.434	0.447	0.430	0.455
130.0	0.259	0.280	0.292	0.321	0.376	0.417	0.434	0.455	0.430	0.463
130.5	0.263	0.284	0.292	0.321	0.376	0.417	0.438	0.455	0.426	0.451
131.0	0.267	0.288	0.292	0.326	0.376	0.417	0.430	0.455	0.422	0.447
131.5	0.271	0.288	0.292	0.326	0.376	0.422	0.438	0.455	0.422	0.451
132.0	0.280	0.288	0.296	0.326	0.376	0.434	0.443	0.455	0.422	0.443
132.5	0.280	0.292	0.292	0.330	0.376	0.430	0.438	0.455	0.417	0.438
133.0	0.280	0.292	0.292	0.334	0.372	0.434	0.434	0.451	0.409	0.434
133.5	0.284	0.292	0.296	0.334	0.367	0.434	0.434	0.447	0.413	0.434
134.0	0.284	0.296	0.296	0.330	0.372	0.426	0.426	0.455	0.413	0.422
134.5	0.284	0.296	0.301	0.330	0.372	0.417	0.430	0.455	0.409	0.422
135.0	0.284	0.301	0.305	0.330	0.367	0.413	0.426	0.459	0.409	0.426
135.5	0.284	0.301	0.309	0.330	0.367	0.413	0.426	0.451	0.417	0.422
136.0	0.284	0.305	0.317	0.330	0.367	0.409	0.422	0.455	0.417	0.413
136.5	0.288	0.309	0.321	0.334	0.363	0.413	0.422	0.447	0.413	0.413
137.0	0.288	0.309	0.326	0.334	0.363	0.413	0.422	0.451	0.409	0.422
137.5	0.288	0.309	0.326	0.334	0.363	0.405	0.417	0.451	0.409	0.413
138.0	0.292	0.309	0.330	0.330	0.359	0.401	0.417	0.447	0.413	0.413
138.5	0.296	0.313	0.330	0.338	0.363	0.401	0.417	0.451	0.409	0.405
139.0	0.296	0.313	0.330	0.338	0.363	0.401	0.417	0.438	0.409	0.409
139.5	0.296	0.313	0.330	0.338	0.355	0.397	0.422	0.438	0.405	0.422
140.0	0.301	0.317	0.330	0.342	0.347	0.392	0.417	0.434	0.405	0.422
140.5	0.301	0.317	0.330	0.342	0.347	0.388	0.413	0.430	0.409	0.417
141.0	0.301	0.317	0.330	0.342	0.347	0.392	0.413	0.434	0.405	0.417
141.5	0.301	0.317	0.330	0.334	0.351	0.384	0.409	0.434	0.405	0.413
142.0	0.301	0.317	0.326	0.334	0.355	0.388	0.405	0.434	0.405	0.413
142.5	0.305	0.317	0.326	0.334	0.355	0.388	0.405	0.426	0.401	0.413
143.0	0.305	0.317	0.330	0.334	0.355	0.380	0.397	0.417	0.397	0.413
143.5	0.309	0.317	0.330	0.334	0.355	0.367	0.397	0.413	0.388	0.409
144.0	0.309	0.317	0.334	0.338	0.363	0.363	0.392	0.413	0.384	0.401
144.5	0.309	0.317	0.334	0.347	0.363	0.367	0.388	0.409	0.384	0.397
145.0	0.309	0.317	0.334	0.359	0.363	0.372	0.397	0.401	0.384	0.388
145.5	0.305	0.321	0.338	0.363	0.367	0.372	0.397	0.384	0.380	0.384
146.0	0.305	0.321	0.342	0.363	0.367	0.376	0.380	0.384	0.363	0.384
146.5	0.309	0.321	0.347	0.367	0.367	0.380	0.384	0.384	0.367	0.380
147.0	0.309	0.321	0.347	0.367	0.367	0.384	0.384	0.376	0.367	0.367
147.5	0.313	0.326	0.347	0.376	0.367	0.388	0.388	0.363	0.351	0.363
148.0	0.313	0.330	0.351	0.380	0.363	0.397	0.392	0.363	0.338	0.363
148.5	0.313	0.330	0.355	0.376	0.363	0.397	0.401	0.363	0.342	0.363
149.0	0.317	0.330	0.355	0.376	0.367	0.392	0.397	0.367	0.347	0.367
149.5	0.317	0.334	0.355	0.388	0.372	0.397	0.401	0.384	0.347	0.380
150.0	0.317	0.338	0.355	0.401	0.384	0.392	0.417	0.392	0.363	0.380
150.5	0.321	0.338	0.355	0.392	0.392	0.384	0.422	0.397	0.367	0.376
151.0	0.330	0.342	0.351	0.384	0.397	0.384	0.426	0.409	0.367	0.384
151.5	0.334	0.347	0.351	0.380	0.397	0.384	0.422	0.413	0.384	0.384
152.0	0.334	0.347	0.351	0.380	0.397	0.384	0.422	0.417	0.388	0.384

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152.5	0.338	0.347	0.351	0.380	0.397	0.388	0.422	0.417	0.388	0.380
153.0	0.338	0.351	0.351	0.380	0.397	0.397	0.417	0.417	0.388	0.380
153.5	0.334	0.359	0.355	0.380	0.392	0.405	0.413	0.413	0.384	0.380
154.0	0.334	0.359	0.359	0.384	0.392	0.409	0.413	0.413	0.384	0.376
154.5	0.338	0.359	0.363	0.384	0.401	0.413	0.413	0.413	0.384	0.372
155.0	0.338	0.359	0.363	0.388	0.405	0.417	0.422	0.413	0.380	0.372
155.5	0.338	0.367	0.367	0.384	0.401	0.426	0.430	0.417	0.380	0.372
156.0	0.342	0.367	0.372	0.384	0.397	0.430	0.430	0.426	0.384	0.376
156.5	0.347	0.367	0.372	0.384	0.397	0.426	0.434	0.438	0.392	0.388
157.0	0.347	0.367	0.376	0.384	0.397	0.422	0.434	0.443	0.405	0.397
157.5	0.351	0.367	0.384	0.388	0.401	0.417	0.438	0.447	0.409	0.405
158.0	0.351	0.367	0.384	0.392	0.405	0.417	0.438	0.451	0.409	0.409
158.5	0.351	0.367	0.384	0.392	0.409	0.413	0.443	0.451	0.409	0.409
159.0	0.351	0.372	0.384	0.392	0.409	0.417	0.451	0.451	0.409	0.405
159.5	0.351	0.376	0.384	0.392	0.409	0.417	0.451	0.451	0.409	0.405
160.0	0.351	0.372	0.384	0.397	0.405	0.422	0.447	0.455	0.409	0.401
160.5	0.351	0.372	0.388	0.397	0.409	0.426	0.438	0.459	0.405	0.401
161.0	0.351	0.367	0.384	0.397	0.413	0.430	0.434	0.459	0.405	0.397
161.5	0.347	0.372	0.384	0.401	0.417	0.430	0.434	0.463	0.405	0.397
162.0	0.347	0.372	0.388	0.405	0.417	0.430	0.438	0.463	0.405	0.397
162.5	0.351	0.376	0.392	0.405	0.422	0.434	0.447	0.459	0.405	0.401
163.0	0.351	0.380	0.397	0.409	0.426	0.438	0.451	0.463	0.405	0.401
163.5	0.351	0.380	0.401	0.413	0.430	0.443	0.455	0.468	0.409	0.405
164.0	0.351	0.380	0.405	0.417	0.434	0.447	0.459	0.463	0.409	0.405
164.5	0.355	0.384	0.409	0.426	0.438	0.451	0.463	0.463	0.409	0.409
165.0	0.359	0.392	0.413	0.430	0.447	0.455	0.468	0.468	0.413	0.413
165.5	0.367	0.397	0.422	0.434	0.455	0.459	0.468	0.468	0.417	0.417
166.0	0.372	0.401	0.426	0.438	0.455	0.459	0.468	0.472	0.422	0.422
166.5	0.376	0.405	0.434	0.443	0.455	0.463	0.468	0.476	0.426	0.426
167.0	0.380	0.409	0.434	0.447	0.459	0.468	0.472	0.476	0.426	0.426
167.5	0.384	0.409	0.438	0.455	0.463	0.468	0.476	0.484	0.430	0.434
168.0	0.388	0.409	0.438	0.455	0.463	0.472	0.480	0.488	0.438	0.438
168.5	0.388	0.409	0.438	0.451	0.463	0.476	0.480	0.493	0.443	0.443
169.0	0.388	0.413	0.438	0.451	0.463	0.476	0.480	0.493	0.447	0.443
169.5	0.388	0.417	0.438	0.451	0.463	0.476	0.480	0.493	0.447	0.447
170.0	0.388	0.417	0.438	0.451	0.463	0.472	0.480	0.493	0.451	0.447
170.5	0.384	0.417	0.438	0.451	0.459	0.468	0.476	0.488	0.455	0.455
171.0	0.384	0.413	0.438	0.451	0.463	0.463	0.476	0.488	0.463	0.459
171.5	0.384	0.413	0.438	0.451	0.468	0.463	0.476	0.484	0.468	0.463
172.0	0.392	0.413	0.438	0.451	0.468	0.463	0.480	0.484	0.468	0.468
172.5	0.397	0.417	0.443	0.459	0.463	0.463	0.484	0.484	0.468	0.468
173.0	0.401	0.422	0.447	0.468	0.463	0.468	0.484	0.488	0.472	0.472
173.5	0.409	0.426	0.451	0.468	0.463	0.468	0.488	0.493	0.472	0.472
174.0	0.413	0.430	0.459	0.463	0.459	0.472	0.488	0.493	0.476	0.476
174.5	0.422	0.430	0.459	0.463	0.459	0.472	0.488	0.493	0.476	0.476
175.0	0.422	0.430	0.459	0.463	0.459	0.472	0.488	0.493	0.472	0.476
175.5	0.417	0.430	0.459	0.463	0.463	0.472	0.484	0.488	0.472	0.472
176.0	0.417	0.434	0.459	0.463	0.463	0.472	0.480	0.484	0.472	0.472
176.5	0.417	0.434	0.459	0.463	0.463	0.472	0.480	0.484	0.472	0.472
177.0	0.417	0.434	0.463	0.463	0.463	0.468	0.476	0.484	0.472	0.472
177.5	0.422	0.434	0.463	0.463	0.459	0.463	0.472	0.480	0.472	0.472
178.0	0.422	0.434	0.459	0.459	0.455	0.459	0.468	0.476	0.472	0.472
178.5	0.426	0.434	0.459	0.455	0.451	0.455	0.463	0.476	0.472	0.472
179.0	0.430	0.438	0.459	0.451	0.447	0.451	0.459	0.472	0.472	0.472
179.5	0.434	0.438	0.459	0.451	0.443	0.443	0.455	0.468	0.472	0.472
180.0	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	200	210	220	230	240	250	260	270	280	290
0.0	885.238	885.238	885.238	885.238	885.238	885.238	885.238	885.238	885.238	885.238
0.5	884.954	884.937	885.033	884.862	884.937	884.941	885.029	885.050	885.133	885.138
1.0	884.561	884.645	884.637	884.566	884.541	884.641	884.628	884.653	884.833	885.025
1.5	884.357	884.428	884.240	884.165	884.140	884.232	884.161	884.353	884.428	884.616
2.0	883.956	883.835	883.831	883.660	883.722	883.635	883.664	883.756	883.931	884.152
2.5	883.555	883.426	883.321	883.159	883.042	883.146	883.171	883.259	883.522	883.751
3.0	883.046	882.775	882.633	882.574	882.549	882.737	882.766	882.858	882.967	883.255
3.5	882.349	882.165	881.977	882.044	882.073	882.077	882.261	882.344	882.461	882.845
4.0	881.601	881.380	881.188	881.113	881.184	881.380	881.472	881.555	881.864	882.157
4.5	880.808	880.587	880.491	880.420	880.290	880.391	880.674	880.766	880.975	881.363
5.0	880.111	879.881	879.685	879.526	879.389	879.480	879.760	880.015	880.165	880.649
5.5	879.205	879.063	878.691	878.520	878.370	878.474	878.658	878.900	879.159	879.710
6.0	878.311	878.082	877.881	877.614	877.180	877.464	877.439	877.802	878.165	878.620
6.5	877.405	877.142	876.846	876.416	876.057	876.161	876.153	876.504	877.042	877.527
7.0	876.374	875.932	875.656	875.197	875.051	874.855	874.855	875.201	875.648	876.324
7.5	875.189	874.754	874.362	874.011	873.949	873.761	873.564	873.819	874.454	875.143
8.0	874.078	873.539	872.863	872.713	872.358	872.358	872.237	872.500	873.051	873.999
8.5	872.671	872.032	871.548	871.306	870.842	870.738	870.638	870.892	871.552	872.316
9.0	871.168	870.533	870.145	869.865	869.335	869.047	869.022	869.285	870.141	870.988
9.5	869.673	869.239	868.638	868.087	867.552	867.444	867.319	867.569	868.438	869.302
10.0	868.079	867.648	866.951	866.409	865.857	865.569	865.619	865.707	866.659	867.632
10.5	866.684	866.045	865.352	864.705	863.970	863.661	863.645	863.824	864.855	865.912
11.0	865.106	864.463	863.574	862.931	862.179	861.687	861.662	862.046	863.060	864.025
11.5	863.382	862.568	861.737	861.110	860.075	859.858	859.545	860.133	861.044	862.146
12.0	861.670	860.964	859.774	858.923	858.008	857.695	857.532	858.017	858.885	860.129
12.5	859.883	858.864	857.862	857.219	855.900	855.591	855.332	855.950	856.677	858.125
13.0	857.804	856.969	855.695	854.844	853.704	853.412	853.203	853.666	854.485	855.942
13.5	855.913	855.073	853.604	852.573	851.541	851.045	851.032	851.203	852.314	853.666
14.0	853.825	852.573	851.308	850.180	849.128	848.619	848.327	848.794	849.800	851.308
14.5	851.616	850.456	848.911	847.876	846.632	846.126	845.767	846.310	847.416	849.020
15.0	849.320	848.039	846.481	845.279	844.106	843.613	843.266	843.776	844.999	846.427
15.5	846.982	845.613	843.960	842.649	841.488	840.903	840.557	840.970	842.189	843.801
16.0	844.686	843.104	841.446	840.148	838.979	838.106	837.776	838.261	839.288	841.108
16.5	842.194	840.540	838.766	837.263	836.090	835.509	834.916	835.476	836.524	838.398
17.0	839.709	837.964	836.081	834.595	833.280	832.524	832.098	832.503	833.756	835.539
17.5	837.113	835.225	833.263	831.781	830.195	829.426	829.122	829.585	830.833	832.629
18.0	834.491	832.528	830.449	828.850	827.118	826.433	826.032	826.475	827.639	829.639
18.5	831.593	829.522	827.343	825.556	823.886	823.297	822.909	823.373	824.642	826.725
19.0	828.763	826.604	824.337	822.258	820.575	819.970	819.490	820.179	821.331	823.682
19.5	825.769	823.527	821.348	819.177	817.227	816.601	816.221	816.784	818.037	820.429
20.0	822.771	820.446	818.150	815.904	814.012	813.328	812.847	813.311	814.651	817.135
20.5	819.669	817.269	814.776	812.680	810.622	809.837	809.474	809.800	811.349	813.657
21.0	816.363	813.916	811.232	808.789	807.090	806.397	805.925	806.322	807.850	809.937
21.5	813.223	810.501	807.817	805.470	803.579	802.673	802.402	802.786	804.214	806.510
22.0	809.704	806.986	804.339	801.859	800.043	799.024	798.644	798.995	800.510	803.045
22.5	806.021	803.667	800.707	798.151	796.189	795.287	795.003	795.267	796.916	799.383
23.0	802.644	799.993	797.033	794.381	792.390	791.317	791.012	791.618	793.121	795.417
23.5	799.037	796.198	793.237	790.394	788.307	787.309	787.000	787.409	789.033	791.526
24.0	795.517	792.281	789.338	786.495	784.378	783.384	782.959	783.435	785.017	787.576
24.5	791.359	788.311	785.272	782.324	780.145	779.172	778.696	779.159	780.930	783.318
25.0	787.463	784.295	780.959	778.024	775.611	774.826	774.346	775.039	776.512	779.143
25.5	783.297	780.090	776.688	773.953	771.348	770.296	769.791	770.358	772.028	775.114
26.0	779.084	775.615	772.300	769.344	767.056	765.875	765.353	766.062	767.641	770.509

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CANDELA TABULATION - (Cont.)

26.5	774.830	771.390	767.870	764.927	762.710	761.349	760.931	761.512	763.207	765.900
27.0	770.283	767.014	763.578	760.364	757.846	756.564	756.055	756.556	758.447	761.265
27.5	766.021	762.418	758.877	755.884	753.354	751.817	751.383	751.721	753.654	756.890
28.0	761.311	757.737	753.947	750.970	748.423	747.229	746.386	746.916	748.815	751.784
28.5	756.644	752.878	749.162	746.031	743.463	742.069	741.234	741.760	743.730	746.816
29.0	751.905	747.943	744.486	741.000	738.403	736.716	736.098	736.583	738.695	741.689
29.5	747.133	742.950	739.238	735.923	733.213	731.443	730.842	731.159	733.347	736.533
30.0	741.806	737.819	734.190	730.596	727.974	726.488	725.573	725.903	728.300	731.385
30.5	736.616	732.629	728.721	725.239	722.325	720.926	720.083	720.572	722.613	725.778
31.0	731.326	727.352	723.515	719.950	716.843	715.144	714.234	714.823	716.935	720.313
31.5	725.932	721.736	717.971	714.418	711.503	709.412	708.493	709.287	711.328	714.702
32.0	720.375	716.154	712.409	708.497	705.721	703.855	702.861	703.241	705.366	708.852
32.5	714.710	710.401	706.527	702.590	699.584	697.768	696.937	697.329	699.262	703.087
33.0	708.882	704.744	700.703	696.849	693.634	691.518	690.783	690.933	693.371	696.820
33.5	703.145	698.816	694.582	690.787	687.902	685.310	684.529	684.854	687.055	690.887
34.0	696.974	692.411	688.178	684.520	681.377	679.193	678.099	678.308	680.538	684.587
34.5	690.854	686.466	682.149	678.170	674.630	672.263	671.461	671.586	673.999	677.845
35.0	684.654	679.995	675.945	671.904	668.109	665.286	664.539	664.798	667.094	671.332
35.5	678.087	673.728	669.165	665.228	661.596	658.698	657.500	657.813	660.397	664.551
36.0	671.795	667.019	662.689	658.598	654.527	651.880	650.490	650.728	653.492	657.838
36.5	665.211	660.627	656.009	651.592	647.367	644.449	643.196	643.117	645.973	650.569
37.0	658.564	653.642	649.342	644.800	640.220	636.763	635.518	635.715	638.587	643.664
37.5	651.613	646.616	641.956	637.439	632.892	629.223	627.811	627.999	630.959	636.161
38.0	644.967	639.547	634.850	630.208	625.185	621.223	619.453	619.666	622.968	628.676
38.5	637.760	632.892	627.724	622.760	617.357	613.220	611.095	611.333	614.977	620.822
39.0	630.746	625.411	620.276	614.877	609.529	605.216	602.741	602.999	606.991	612.965
39.5	623.695	617.942	612.827	606.995	601.705	597.213	594.382	594.662	599.000	605.108
40.0	616.238	610.468	605.379	599.112	593.877	589.205	586.020	586.312	591.005	597.255
40.5	608.778	602.999	597.931	591.289	586.036	580.421	577.206	577.419	581.786	589.376
41.0	601.317	595.530	590.458	584.400	577.661	571.662	568.142	568.435	572.931	580.851
41.5	593.856	588.045	582.258	575.762	569.048	562.740	558.623	559.041	563.612	572.071
42.0	586.379	580.358	574.309	567.792	560.381	553.651	549.505	549.664	554.315	563.166
42.5	578.400	572.630	566.226	559.550	551.822	544.491	540.015	539.932	545.000	554.106
43.0	570.480	564.322	557.947	551.183	543.097	535.348	530.434	530.475	535.895	545.397
43.5	562.226	556.010	549.543	542.349	533.974	525.921	520.510	520.648	526.129	536.103
44.0	554.565	547.656	541.310	533.982	524.881	516.447	510.907	510.536	516.047	526.714
44.5	545.994	539.598	533.026	525.278	516.063	506.632	500.708	500.512	506.294	517.203
45.0	537.381	530.964	524.171	516.393	506.720	496.771	490.454	490.299	496.445	507.722
45.5	529.018	522.589	515.683	507.517	497.280	487.030	480.150	479.941	486.346	498.032
46.0	521.098	514.297	507.400	499.000	487.878	477.002	470.205	469.658	476.075	488.508
46.5	512.202	505.563	498.921	490.041	478.685	466.844	459.880	459.567	466.043	478.518
47.0	503.426	496.871	489.999	480.801	468.844	456.653	449.593	449.109	455.806	468.473
47.5	494.758	488.354	481.248	471.579	458.578	446.395	439.022	438.584	445.402	458.256
48.0	486.772	479.887	472.652	462.611	448.979	436.271	429.077	428.438	435.093	448.491
48.5	477.415	471.007	463.880	453.209	439.293	426.434	419.016	418.803	425.236	438.279
49.0	468.731	462.398	455.129	443.873	429.353	416.385	409.446	409.146	415.392	428.539
49.5	460.014	453.910	446.358	434.296	419.375	406.390	399.598	399.339	405.605	418.489
50.0	451.125	445.289	437.348	425.048	409.555	396.788	390.262	389.874	395.853	408.486
50.5	442.329	436.421	428.426	415.500	399.840	387.620	381.052	380.710	386.542	398.679
51.0	433.524	427.570	419.183	405.693	390.024	378.163	372.030	371.709	377.199	389.181
51.5	424.898	418.995	410.536	396.099	380.459	368.890	363.091	362.929	368.264	379.825
52.0	416.010	410.281	401.276	386.801	371.274	359.881	354.457	354.370	359.338	370.611
52.5	407.355	401.506	392.091	377.220	362.152	351.564	346.145	346.020	350.938	361.421
53.0	398.525	392.696	382.810	367.650	352.787	342.701	337.774	337.849	342.337	352.575
53.5	390.003	384.000	373.909	358.436	343.799	334.063	329.337	329.483	334.013	343.795
54.0	381.382	375.124	364.523	349.385	335.252	325.892	321.354	321.609	326.113	335.190

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54.5	372.644	366.302	355.309	339.966	326.681	318.056	313.634	313.839	317.910	326.840
55.0	363.926	357.781	346.341	330.936	318.089	309.806	306.023	306.194	310.106	319.008
55.5	355.501	349.072	337.294	322.460	309.960	301.844	298.379	298.479	302.341	311.626
56.0	347.168	340.354	328.355	314.081	302.257	294.475	291.148	291.503	294.976	302.738
56.5	338.509	331.533	319.458	305.297	293.991	287.240	283.908	284.221	287.791	294.980
57.0	330.025	323.116	310.841	296.788	286.104	279.625	276.794	277.128	280.815	287.344
57.5	321.705	314.361	302.257	288.906	278.614	272.168	269.955	270.122	273.462	279.930
58.0	313.338	305.852	293.603	281.061	271.400	265.547	263.255	263.726	266.540	272.665
58.5	305.159	297.594	285.420	273.166	263.998	258.883	256.708	257.268	259.977	265.764
59.0	297.239	289.394	277.483	265.659	256.917	252.016	250.291	250.888	253.422	258.800
59.5	289.353	281.220	269.613	258.412	250.116	245.398	244.175	244.684	247.010	252.061
60.0	281.382	273.333	261.714	250.980	243.557	239.311	238.013	238.676	240.860	245.419
60.5	273.500	265.325	253.969	243.895	236.643	233.111	232.088	232.719	234.760	238.969
61.0	266.060	257.739	246.776	237.065	230.301	226.878	226.156	226.911	228.807	232.677
61.5	258.771	250.199	239.691	230.569	224.177	221.029	220.590	221.296	223.129	226.740
62.0	251.498	242.939	232.794	223.922	218.185	215.518	215.038	215.839	217.593	220.711
62.5	244.400	235.716	225.918	217.538	211.977	209.765	209.664	210.382	211.860	214.825
63.0	237.491	229.011	219.371	211.334	206.237	204.137	204.220	204.930	206.554	209.080
63.5	230.827	222.340	212.921	205.519	200.709	198.868	198.951	199.719	201.252	203.586
64.0	224.294	215.597	206.654	199.356	195.114	193.745	193.774	194.647	196.058	198.108
64.5	218.018	209.431	200.642	193.712	189.633	188.568	188.881	189.637	190.894	192.860
65.0	212.036	203.519	194.931	188.222	184.539	183.479	183.846	184.765	186.055	187.783
65.5	206.040	197.624	189.178	183.003	179.533	178.602	179.107	179.888	181.149	182.694
66.0	200.254	191.883	183.558	177.517	174.469	174.035	174.440	175.229	176.381	177.726
66.5	194.826	186.447	178.264	172.436	169.513	169.242	169.772	170.787	171.743	172.958
67.0	189.624	181.245	173.333	167.547	164.917	164.716	165.338	166.303	167.372	168.365
67.5	184.322	176.056	168.098	162.817	160.395	160.324	161.038	161.936	162.888	163.798
68.0	179.396	171.158	163.263	158.015	155.886	156.224	156.851	157.690	158.566	159.285
68.5	174.703	166.541	158.713	153.586	151.527	151.999	152.801	153.749	154.513	155.101
69.0	170.135	161.898	154.321	149.227	147.465	147.954	148.701	149.682	150.521	150.960
69.5	165.555	157.343	149.690	144.948	143.395	143.946	144.772	145.712	146.463	146.876
70.0	161.197	153.072	145.507	140.664	139.370	140.234	140.956	141.745	142.468	142.894
70.5	156.984	149.006	141.491	136.831	135.591	136.414	137.287	138.134	138.748	139.027
71.0	152.893	144.994	137.612	133.049	132.005	132.811	133.608	134.452	135.086	135.408
71.5	148.839	140.961	133.679	129.308	128.456	129.316	129.980	130.832	131.429	131.801
72.0	144.931	137.182	130.089	125.693	124.987	125.880	126.523	127.308	127.822	128.248
72.5	141.019	133.521	126.461	122.294	121.626	122.378	123.021	123.797	124.286	124.753
73.0	137.178	129.830	123.004	118.925	118.282	119.025	119.539	120.215	120.854	121.284
73.5	133.366	126.198	119.514	115.639	114.988	115.668	116.098	116.737	117.388	117.906
74.0	129.675	122.716	116.303	112.429	111.777	112.378	112.725	113.301	113.873	114.570
74.5	126.031	119.296	113.109	109.368	108.588	108.909	109.247	109.777	110.412	111.264
75.0	122.265	115.819	109.899	106.300	105.331	105.607	105.740	106.149	106.876	107.815
75.5	118.591	112.383	106.650	103.089	102.062	102.091	102.242	102.617	103.306	104.300
76.0	114.942	108.988	103.607	100.033	98.680	98.555	98.668	99.027	99.720	100.789
76.5	111.251	105.577	100.501	96.877	95.415	95.023	95.102	95.457	96.146	97.328
77.0	107.577	102.070	97.303	93.700	91.950	91.591	91.545	91.883	92.597	93.816
77.5	103.853	98.622	94.034	90.451	88.368	87.942	87.955	88.214	88.927	90.109
78.0	100.233	95.190	90.906	87.166	84.949	84.327	84.335	84.519	85.291	86.481
78.5	96.969	91.650	87.612	83.830	81.559	80.774	80.657	80.932	81.701	82.907
79.0	92.798	88.005	84.139	80.340	77.885	77.116	77.004	77.250	78.027	79.367
79.5	89.103	84.439	80.669	76.778	74.181	73.321	73.196	73.447	74.231	75.467
80.0	85.324	80.815	77.083	73.054	70.474	69.526	69.388	69.647	70.416	71.605
80.5	81.584	77.112	73.175	69.334	66.762	65.731	65.581	65.848	66.600	67.748
81.0	77.880	73.159	69.267	65.614	63.055	61.932	61.777	62.049	62.784	63.886
81.5	74.169	69.205	65.360	61.890	59.343	58.129	57.970	58.245	58.964	60.024
82.0	70.194	65.251	61.452	58.162	55.431	54.187	54.041	54.350	55.001	56.162

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82.5	66.220	61.297	57.536	54.058	51.444	50.296	50.054	50.296	51.023	52.079
83.0	62.245	57.339	53.265	49.916	47.261	46.175	45.942	46.184	46.919	48.171
83.5	58.266	53.244	49.023	45.608	43.240	42.088	41.796	42.101	42.702	43.821
84.0	54.146	48.889	44.769	41.391	39.145	38.134	37.729	38.063	38.686	39.729
84.5	49.891	44.556	40.310	37.016	34.945	34.010	33.617	33.972	34.598	35.634
85.0	45.232	40.030	35.650	32.623	30.569	29.814	29.446	29.713	30.448	31.559
85.5	40.623	35.588	31.175	28.139	26.419	25.747	25.409	25.714	26.386	27.267
86.0	35.805	30.862	26.628	23.735	22.257	21.785	21.422	21.844	22.340	23.367
86.5	30.891	26.211	22.057	19.447	18.170	17.756	17.418	17.890	18.366	19.385
87.0	26.023	21.384	17.648	16.249	14.796	14.441	14.203	14.583	15.013	15.569
87.5	21.038	17.193	14.208	13.051	11.423	11.126	10.984	11.281	11.657	12.529
88.0	16.888	12.997	10.767	9.853	8.049	7.807	7.770	7.978	8.304	9.494
88.5	12.742	8.805	7.327	6.659	4.676	4.492	4.555	4.672	4.947	6.459
89.0	8.592	4.613	3.887	3.461	1.378	1.298	1.349	1.403	1.678	3.419
89.5	4.442	0.685	0.484	0.367	0.301	0.225	0.246	0.263	0.380	0.443
90.0	0.543	0.530	0.405	0.309	0.213	0.154	0.146	0.146	0.146	0.167
90.5	0.518	0.543	0.417	0.317	0.217	0.159	0.146	0.146	0.150	0.171
91.0	0.509	0.547	0.422	0.321	0.221	0.163	0.150	0.154	0.154	0.180
91.5	0.509	0.539	0.422	0.321	0.221	0.167	0.159	0.163	0.167	0.192
92.0	0.526	0.530	0.422	0.326	0.230	0.175	0.163	0.167	0.171	0.200
92.5	0.530	0.559	0.451	0.330	0.238	0.184	0.171	0.175	0.180	0.209
93.0	0.572	0.543	0.447	0.342	0.242	0.188	0.175	0.175	0.180	0.209
93.5	0.589	0.568	0.430	0.334	0.250	0.192	0.175	0.175	0.180	0.209
94.0	0.626	0.584	0.447	0.334	0.246	0.192	0.175	0.175	0.180	0.213
94.5	0.651	0.584	0.463	0.342	0.246	0.192	0.180	0.180	0.184	0.213
95.0	0.664	0.580	0.480	0.351	0.250	0.196	0.180	0.180	0.184	0.217
95.5	0.672	0.580	0.472	0.359	0.255	0.196	0.184	0.184	0.188	0.213
96.0	0.672	0.589	0.468	0.359	0.259	0.196	0.184	0.188	0.188	0.213
96.5	0.681	0.601	0.463	0.355	0.263	0.200	0.188	0.188	0.192	0.217
97.0	0.693	0.622	0.455	0.351	0.263	0.205	0.188	0.188	0.192	0.217
97.5	0.689	0.639	0.451	0.347	0.267	0.205	0.192	0.192	0.196	0.217
98.0	0.689	0.626	0.455	0.342	0.267	0.209	0.192	0.192	0.196	0.221
98.5	0.685	0.626	0.468	0.342	0.267	0.209	0.196	0.196	0.200	0.221
99.0	0.676	0.626	0.480	0.342	0.267	0.213	0.200	0.200	0.200	0.225
99.5	0.664	0.622	0.488	0.342	0.271	0.213	0.200	0.200	0.205	0.225
100.0	0.660	0.618	0.497	0.351	0.271	0.217	0.205	0.205	0.205	0.225
100.5	0.655	0.614	0.493	0.355	0.271	0.221	0.205	0.205	0.209	0.230
101.0	0.651	0.622	0.488	0.363	0.276	0.225	0.209	0.209	0.209	0.234
101.5	0.655	0.635	0.480	0.367	0.280	0.225	0.213	0.213	0.213	0.234
102.0	0.651	0.635	0.476	0.367	0.284	0.230	0.213	0.213	0.217	0.238
102.5	0.647	0.618	0.476	0.363	0.292	0.234	0.217	0.217	0.221	0.246
103.0	0.639	0.601	0.480	0.363	0.296	0.238	0.225	0.225	0.225	0.250
103.5	0.630	0.597	0.484	0.363	0.296	0.246	0.230	0.230	0.230	0.255
104.0	0.622	0.593	0.488	0.363	0.301	0.250	0.234	0.234	0.234	0.259
104.5	0.614	0.593	0.493	0.363	0.301	0.250	0.238	0.238	0.238	0.259
105.0	0.605	0.584	0.493	0.367	0.301	0.255	0.242	0.242	0.242	0.259
105.5	0.601	0.584	0.484	0.367	0.301	0.255	0.242	0.242	0.242	0.263
106.0	0.601	0.584	0.472	0.367	0.305	0.255	0.242	0.246	0.242	0.263
106.5	0.601	0.580	0.459	0.367	0.305	0.255	0.242	0.246	0.242	0.263
107.0	0.601	0.564	0.451	0.363	0.305	0.255	0.246	0.246	0.242	0.263
107.5	0.605	0.551	0.447	0.363	0.301	0.250	0.246	0.246	0.242	0.263
108.0	0.605	0.539	0.447	0.359	0.301	0.250	0.246	0.246	0.242	0.263
108.5	0.597	0.530	0.451	0.355	0.301	0.250	0.242	0.246	0.242	0.259
109.0	0.593	0.518	0.451	0.351	0.301	0.250	0.242	0.242	0.242	0.259
109.5	0.584	0.509	0.447	0.351	0.296	0.250	0.242	0.242	0.242	0.259
110.0	0.572	0.505	0.443	0.347	0.296	0.250	0.242	0.242	0.242	0.255

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110.5	0.564	0.501	0.434	0.342	0.296	0.250	0.242	0.242	0.238	0.255
111.0	0.559	0.493	0.426	0.342	0.292	0.250	0.238	0.238	0.238	0.250
111.5	0.543	0.480	0.422	0.342	0.288	0.246	0.238	0.238	0.238	0.250
112.0	0.530	0.476	0.413	0.342	0.284	0.246	0.234	0.238	0.234	0.246
112.5	0.518	0.468	0.405	0.334	0.284	0.246	0.234	0.234	0.234	0.246
113.0	0.514	0.459	0.397	0.330	0.280	0.242	0.230	0.234	0.234	0.246
113.5	0.497	0.459	0.392	0.326	0.276	0.242	0.230	0.230	0.230	0.242
114.0	0.488	0.451	0.384	0.321	0.276	0.238	0.225	0.230	0.230	0.242
114.5	0.480	0.443	0.384	0.313	0.276	0.238	0.225	0.225	0.225	0.238
115.0	0.476	0.438	0.380	0.309	0.267	0.238	0.225	0.225	0.225	0.234
115.5	0.468	0.434	0.376	0.305	0.263	0.234	0.221	0.221	0.221	0.234
116.0	0.463	0.422	0.367	0.301	0.259	0.234	0.221	0.221	0.221	0.230
116.5	0.463	0.417	0.363	0.296	0.255	0.230	0.221	0.217	0.221	0.225
117.0	0.459	0.409	0.355	0.292	0.255	0.230	0.217	0.217	0.217	0.225
117.5	0.451	0.405	0.355	0.288	0.250	0.225	0.217	0.213	0.217	0.225
118.0	0.447	0.401	0.351	0.284	0.246	0.225	0.213	0.213	0.213	0.225
118.5	0.447	0.397	0.351	0.284	0.246	0.221	0.213	0.209	0.213	0.221
119.0	0.443	0.397	0.347	0.280	0.242	0.217	0.209	0.209	0.209	0.221
119.5	0.447	0.392	0.347	0.271	0.242	0.217	0.209	0.205	0.209	0.217
120.0	0.447	0.397	0.347	0.271	0.238	0.213	0.205	0.205	0.205	0.217
120.5	0.443	0.401	0.342	0.267	0.234	0.213	0.205	0.200	0.205	0.217
121.0	0.438	0.401	0.342	0.263	0.234	0.213	0.200	0.196	0.200	0.217
121.5	0.438	0.401	0.338	0.263	0.230	0.209	0.200	0.196	0.200	0.217
122.0	0.438	0.397	0.342	0.267	0.230	0.209	0.196	0.196	0.200	0.217
122.5	0.438	0.397	0.338	0.267	0.230	0.209	0.196	0.192	0.200	0.217
123.0	0.434	0.397	0.338	0.267	0.230	0.213	0.196	0.192	0.196	0.217
123.5	0.434	0.397	0.334	0.267	0.230	0.209	0.200	0.192	0.196	0.217
124.0	0.430	0.397	0.334	0.267	0.230	0.213	0.200	0.192	0.200	0.217
124.5	0.430	0.401	0.334	0.267	0.230	0.213	0.200	0.196	0.200	0.217
125.0	0.430	0.401	0.338	0.276	0.234	0.213	0.205	0.200	0.200	0.221
125.5	0.434	0.405	0.342	0.271	0.234	0.217	0.205	0.200	0.200	0.221
126.0	0.430	0.401	0.347	0.271	0.238	0.217	0.209	0.205	0.205	0.230
126.5	0.434	0.405	0.351	0.271	0.238	0.221	0.213	0.209	0.209	0.225
127.0	0.430	0.401	0.351	0.271	0.242	0.221	0.217	0.213	0.209	0.225
127.5	0.422	0.405	0.351	0.271	0.242	0.225	0.217	0.213	0.213	0.230
128.0	0.434	0.405	0.351	0.271	0.242	0.230	0.221	0.217	0.217	0.234
128.5	0.434	0.401	0.347	0.271	0.242	0.234	0.225	0.221	0.221	0.234
129.0	0.438	0.405	0.347	0.276	0.242	0.238	0.230	0.225	0.225	0.238
129.5	0.434	0.405	0.347	0.284	0.246	0.242	0.234	0.234	0.230	0.242
130.0	0.422	0.401	0.347	0.288	0.246	0.246	0.238	0.238	0.234	0.246
130.5	0.422	0.397	0.351	0.292	0.250	0.250	0.242	0.242	0.238	0.246
131.0	0.426	0.388	0.351	0.296	0.255	0.255	0.246	0.246	0.242	0.250
131.5	0.422	0.397	0.351	0.296	0.263	0.259	0.255	0.250	0.246	0.255
132.0	0.422	0.397	0.355	0.301	0.271	0.259	0.259	0.255	0.250	0.255
132.5	0.430	0.392	0.351	0.301	0.276	0.263	0.259	0.259	0.255	0.259
133.0	0.422	0.401	0.351	0.305	0.284	0.267	0.263	0.263	0.255	0.263
133.5	0.417	0.401	0.355	0.309	0.288	0.271	0.267	0.267	0.259	0.267
134.0	0.422	0.397	0.355	0.313	0.292	0.276	0.271	0.271	0.263	0.276
134.5	0.417	0.397	0.355	0.317	0.296	0.284	0.276	0.271	0.267	0.280
135.0	0.417	0.397	0.355	0.317	0.305	0.288	0.280	0.276	0.276	0.284
135.5	0.417	0.397	0.347	0.321	0.313	0.292	0.288	0.280	0.280	0.284
136.0	0.417	0.397	0.342	0.326	0.313	0.296	0.292	0.288	0.284	0.288
136.5	0.409	0.397	0.342	0.330	0.313	0.301	0.301	0.292	0.288	0.296
137.0	0.413	0.397	0.342	0.330	0.317	0.305	0.305	0.296	0.292	0.301
137.5	0.422	0.397	0.334	0.334	0.321	0.309	0.309	0.301	0.296	0.301
138.0	0.417	0.392	0.326	0.334	0.321	0.313	0.313	0.309	0.301	0.309

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138.5	0.417	0.388	0.326	0.334	0.326	0.313	0.317	0.313	0.305	0.313
139.0	0.422	0.380	0.334	0.338	0.326	0.321	0.321	0.317	0.305	0.313
139.5	0.422	0.376	0.330	0.338	0.330	0.321	0.321	0.317	0.309	0.313
140.0	0.417	0.376	0.334	0.334	0.334	0.326	0.326	0.326	0.313	0.317
140.5	0.417	0.372	0.342	0.326	0.338	0.330	0.330	0.330	0.313	0.321
141.0	0.413	0.376	0.347	0.326	0.338	0.330	0.334	0.334	0.317	0.321
141.5	0.413	0.376	0.351	0.330	0.342	0.334	0.334	0.334	0.321	0.326
142.0	0.405	0.367	0.359	0.338	0.347	0.338	0.338	0.338	0.326	0.326
142.5	0.405	0.363	0.367	0.342	0.351	0.338	0.338	0.338	0.326	0.326
143.0	0.405	0.363	0.372	0.351	0.342	0.342	0.342	0.342	0.330	0.330
143.5	0.392	0.359	0.372	0.355	0.342	0.342	0.342	0.347	0.334	0.330
144.0	0.392	0.359	0.372	0.359	0.342	0.347	0.347	0.347	0.338	0.326
144.5	0.397	0.363	0.367	0.359	0.342	0.347	0.351	0.351	0.338	0.321
145.0	0.384	0.372	0.372	0.363	0.342	0.342	0.355	0.355	0.338	0.321
145.5	0.376	0.372	0.372	0.367	0.347	0.342	0.355	0.355	0.330	0.317
146.0	0.376	0.372	0.372	0.376	0.347	0.342	0.347	0.351	0.330	0.317
146.5	0.376	0.376	0.367	0.388	0.351	0.342	0.347	0.351	0.326	0.317
147.0	0.380	0.380	0.367	0.384	0.351	0.342	0.347	0.351	0.321	0.317
147.5	0.380	0.384	0.367	0.380	0.351	0.347	0.351	0.355	0.317	0.317
148.0	0.388	0.384	0.367	0.380	0.355	0.351	0.351	0.351	0.317	0.317
148.5	0.388	0.384	0.376	0.376	0.359	0.351	0.355	0.351	0.317	0.317
149.0	0.388	0.388	0.384	0.376	0.359	0.351	0.355	0.351	0.317	0.317
149.5	0.392	0.384	0.392	0.376	0.363	0.351	0.355	0.347	0.317	0.321
150.0	0.392	0.384	0.392	0.376	0.367	0.359	0.351	0.338	0.317	0.321
150.5	0.388	0.376	0.388	0.376	0.363	0.363	0.351	0.338	0.321	0.326
151.0	0.392	0.376	0.388	0.380	0.359	0.376	0.351	0.334	0.330	0.326
151.5	0.392	0.380	0.388	0.380	0.355	0.388	0.355	0.338	0.334	0.330
152.0	0.397	0.380	0.392	0.376	0.355	0.397	0.359	0.342	0.338	0.330
152.5	0.392	0.380	0.401	0.376	0.359	0.397	0.359	0.342	0.342	0.330
153.0	0.392	0.384	0.405	0.380	0.359	0.388	0.359	0.347	0.342	0.334
153.5	0.397	0.384	0.392	0.380	0.363	0.388	0.355	0.347	0.342	0.334
154.0	0.397	0.384	0.388	0.380	0.363	0.380	0.351	0.347	0.342	0.338
154.5	0.401	0.384	0.388	0.380	0.363	0.372	0.351	0.347	0.347	0.338
155.0	0.405	0.384	0.397	0.380	0.367	0.372	0.355	0.351	0.351	0.338
155.5	0.409	0.384	0.409	0.380	0.372	0.367	0.355	0.351	0.351	0.338
156.0	0.409	0.384	0.409	0.380	0.372	0.363	0.355	0.355	0.351	0.342
156.5	0.409	0.384	0.397	0.380	0.372	0.367	0.351	0.351	0.351	0.347
157.0	0.413	0.384	0.388	0.384	0.376	0.367	0.355	0.347	0.351	0.351
157.5	0.417	0.388	0.384	0.388	0.376	0.367	0.359	0.351	0.355	0.355
158.0	0.417	0.388	0.384	0.392	0.376	0.367	0.359	0.351	0.355	0.355
158.5	0.413	0.392	0.388	0.392	0.380	0.367	0.359	0.351	0.359	0.359
159.0	0.409	0.397	0.388	0.392	0.380	0.372	0.359	0.351	0.359	0.359
159.5	0.405	0.405	0.384	0.392	0.384	0.376	0.363	0.351	0.363	0.363
160.0	0.405	0.413	0.384	0.392	0.384	0.380	0.363	0.351	0.363	0.367
160.5	0.409	0.417	0.388	0.392	0.388	0.380	0.367	0.355	0.367	0.367
161.0	0.417	0.413	0.388	0.392	0.388	0.376	0.372	0.359	0.367	0.367
161.5	0.417	0.409	0.397	0.392	0.384	0.380	0.372	0.363	0.367	0.367
162.0	0.413	0.409	0.401	0.392	0.384	0.384	0.372	0.363	0.367	0.367
162.5	0.409	0.409	0.405	0.392	0.384	0.384	0.376	0.363	0.363	0.363
163.0	0.405	0.413	0.413	0.397	0.388	0.384	0.376	0.367	0.363	0.359
163.5	0.401	0.417	0.417	0.397	0.388	0.388	0.372	0.367	0.359	0.355
164.0	0.401	0.417	0.417	0.401	0.392	0.388	0.372	0.372	0.359	0.355
164.5	0.405	0.417	0.422	0.409	0.397	0.392	0.376	0.388	0.359	0.355
165.0	0.413	0.417	0.422	0.417	0.401	0.397	0.380	0.397	0.359	0.359
165.5	0.417	0.422	0.430	0.426	0.409	0.397	0.380	0.388	0.363	0.359
166.0	0.426	0.426	0.438	0.434	0.417	0.401	0.384	0.384	0.367	0.363

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166.5	0.430	0.430	0.447	0.443	0.422	0.409	0.388	0.380	0.372	0.359
167.0	0.434	0.434	0.455	0.447	0.430	0.413	0.392	0.380	0.376	0.363
167.5	0.438	0.438	0.455	0.451	0.438	0.422	0.401	0.384	0.376	0.372
168.0	0.443	0.443	0.459	0.459	0.443	0.430	0.405	0.392	0.380	0.380
168.5	0.443	0.447	0.463	0.468	0.447	0.438	0.413	0.401	0.388	0.384
169.0	0.443	0.451	0.463	0.472	0.451	0.443	0.422	0.409	0.397	0.388
169.5	0.447	0.451	0.463	0.472	0.459	0.447	0.430	0.426	0.409	0.392
170.0	0.447	0.455	0.463	0.472	0.468	0.455	0.434	0.438	0.417	0.405
170.5	0.455	0.463	0.463	0.472	0.472	0.459	0.443	0.443	0.417	0.422
171.0	0.459	0.468	0.463	0.472	0.472	0.459	0.447	0.438	0.422	0.430
171.5	0.468	0.472	0.468	0.472	0.472	0.463	0.447	0.422	0.426	0.430
172.0	0.472	0.472	0.468	0.468	0.472	0.463	0.443	0.417	0.434	0.434
172.5	0.476	0.472	0.468	0.468	0.468	0.459	0.443	0.422	0.430	0.434
173.0	0.476	0.472	0.472	0.472	0.468	0.459	0.443	0.422	0.426	0.438
173.5	0.476	0.476	0.472	0.472	0.468	0.459	0.438	0.426	0.430	0.447
174.0	0.480	0.476	0.476	0.476	0.472	0.459	0.443	0.422	0.430	0.451
174.5	0.480	0.480	0.476	0.476	0.476	0.463	0.443	0.426	0.422	0.455
175.0	0.480	0.480	0.476	0.476	0.480	0.468	0.447	0.430	0.422	0.459
175.5	0.480	0.480	0.476	0.476	0.480	0.472	0.451	0.430	0.426	0.455
176.0	0.480	0.480	0.476	0.476	0.480	0.476	0.451	0.430	0.426	0.451
176.5	0.480	0.480	0.480	0.476	0.480	0.476	0.451	0.430	0.430	0.447
177.0	0.480	0.480	0.480	0.476	0.476	0.476	0.451	0.430	0.438	0.451
177.5	0.476	0.480	0.476	0.476	0.476	0.476	0.451	0.434	0.447	0.451
178.0	0.476	0.480	0.476	0.472	0.472	0.480	0.455	0.438	0.451	0.451
178.5	0.476	0.480	0.476	0.472	0.472	0.480	0.459	0.443	0.455	0.447
179.0	0.480	0.480	0.476	0.476	0.472	0.480	0.459	0.443	0.459	0.438
179.5	0.480	0.480	0.476	0.476	0.472	0.480	0.459	0.447	0.459	0.438
180.0	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	885.238	885.238	885.238	885.238	885.238	885.238	885.238
0.5	885.238	885.330	885.330	885.334	885.330	885.430	885.338
1.0	885.138	885.133	885.330	885.426	885.430	885.530	885.526
1.5	884.837	885.025	885.313	885.330	885.426	885.618	885.442
2.0	884.432	884.620	884.912	885.129	885.321	885.513	885.438
2.5	884.035	884.223	884.520	884.929	885.117	885.317	885.346
3.0	883.630	883.822	884.144	884.624	884.816	885.113	885.246
3.5	883.033	883.351	883.743	884.131	884.436	884.829	884.862
4.0	882.474	882.662	883.246	883.635	883.944	884.328	884.361
4.5	881.781	882.065	882.549	883.142	883.443	883.735	883.985
5.0	881.079	881.368	881.843	882.628	882.937	883.225	883.584
5.5	880.169	880.662	881.092	881.969	882.324	882.562	882.900
6.0	879.272	879.848	880.395	881.079	881.576	881.864	882.299
6.5	878.174	878.821	879.493	880.282	880.783	881.167	881.610
7.0	877.046	877.723	878.587	879.384	879.977	880.466	881.004
7.5	875.961	876.637	877.593	878.579	879.092	879.660	880.353
8.0	874.662	875.435	876.474	877.460	878.099	878.662	879.468
8.5	873.260	874.212	875.163	876.241	877.092	877.727	878.478
9.0	871.836	872.913	873.857	875.030	875.990	876.717	877.472
9.5	870.254	871.502	872.658	873.827	874.700	875.619	876.395
10.0	868.763	869.819	871.281	872.525	873.423	874.349	875.293
10.5	867.060	868.316	869.874	871.105	872.208	873.235	874.195
11.0	865.285	866.834	868.287	869.636	870.830	871.857	873.068
11.5	863.486	865.106	866.680	868.225	869.435	870.462	871.489

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12.0	861.557	863.319	864.893	866.613	868.116	869.151	870.091
12.5	859.591	861.319	863.206	865.014	866.513	867.661	868.600
13.0	857.512	859.223	861.403	863.340	864.918	866.058	867.014
13.5	855.424	857.057	859.336	861.557	863.236	864.379	865.523
14.0	853.115	854.944	857.420	859.678	861.340	862.776	863.845
14.5	850.723	852.760	855.228	857.595	859.440	861.161	862.046
15.0	848.414	850.514	853.078	855.608	857.320	858.964	860.142
15.5	845.826	848.206	850.948	853.499	855.345	857.082	858.171
16.0	843.484	845.730	848.456	851.216	853.140	854.990	855.984
16.5	840.803	843.321	845.959	848.936	851.024	853.174	853.988
17.0	838.119	840.549	843.425	846.627	848.640	850.786	851.733
17.5	835.113	837.935	840.820	844.101	846.218	848.423	849.295
18.0	832.207	835.200	838.423	841.509	843.788	845.943	846.899
18.5	829.305	832.115	835.409	838.716	841.363	843.517	844.911
19.0	826.191	829.126	832.583	835.889	838.762	840.912	842.482
19.5	822.709	826.232	829.489	833.021	835.981	838.373	839.856
20.0	819.532	823.310	826.725	830.316	833.176	835.697	837.346
20.5	816.329	819.832	823.819	827.414	830.170	832.896	834.658
21.0	812.910	816.409	820.354	824.153	827.260	829.777	831.743
21.5	809.420	813.181	816.981	820.930	824.228	826.850	828.737
22.0	805.888	809.578	813.799	817.548	821.089	823.740	825.648
22.5	802.393	806.084	810.363	814.317	817.820	820.592	822.575
23.0	798.698	802.589	806.794	810.914	814.522	817.331	819.214
23.5	794.711	798.966	803.203	807.228	811.027	813.950	815.808
24.0	790.812	795.037	799.554	803.738	807.449	810.672	812.397
24.5	786.653	790.904	795.404	800.080	804.138	806.852	808.873
25.0	782.520	786.871	791.421	796.243	800.247	803.328	805.203
25.5	778.349	782.883	787.564	792.039	796.360	799.575	801.742
26.0	774.037	778.408	783.435	788.027	792.461	795.663	797.880
26.5	769.682	774.174	779.013	784.098	788.332	791.722	793.897
27.0	764.931	769.615	774.454	779.736	784.073	787.468	789.789
27.5	760.434	765.115	769.874	775.464	779.894	783.376	785.702
28.0	755.729	760.464	765.382	770.872	775.460	779.084	781.318
28.5	750.786	755.508	760.714	766.204	770.730	774.496	776.780
29.0	745.668	750.744	755.662	761.374	766.079	769.841	772.291
29.5	740.737	745.880	750.807	756.610	761.320	765.273	767.494
30.0	735.677	740.770	746.060	751.738	756.777	760.522	762.681
30.5	730.291	735.364	740.870	746.632	751.492	755.341	757.742
31.0	724.930	730.199	735.585	741.238	746.336	750.227	752.694
31.5	719.403	724.801	730.287	736.090	741.113	745.112	747.651
32.0	713.649	719.140	724.772	730.763	735.718	739.726	742.432
32.5	707.850	713.391	719.119	725.390	730.187	734.274	737.088
33.0	701.843	707.683	713.537	719.444	724.546	728.972	731.389
33.5	695.960	701.959	708.001	713.691	718.922	723.152	725.644
34.0	689.693	695.739	701.884	707.892	712.936	717.232	720.083
34.5	683.210	689.309	695.785	701.813	706.890	711.220	714.113
35.0	676.730	683.393	689.397	695.396	700.916	705.333	708.356
35.5	670.334	676.922	683.210	689.117	694.545	699.417	702.310
36.0	663.612	670.096	676.834	682.926	688.374	693.417	696.002
36.5	656.636	663.378	670.213	676.300	681.890	686.746	689.739
37.0	649.713	656.744	663.524	669.524	675.440	680.287	683.272
37.5	642.687	649.772	656.611	662.831	668.739	673.565	676.563
38.0	635.230	642.591	649.747	655.968	661.921	667.294	670.046
38.5	627.933	635.569	642.457	649.004	655.154	660.234	663.215
39.0	620.351	628.475	635.510	641.869	648.173	653.154	656.143
39.5	612.769	621.862	628.354	634.917	641.272	646.039	648.929

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40.0	605.191	614.134	620.919	627.736	633.890	639.426	642.157
40.5	597.609	606.406	613.479	620.251	626.872	632.007	634.830
41.0	589.969	598.678	606.039	612.765	619.274	624.638	627.310
41.5	581.448	590.946	598.599	605.279	611.675	617.061	620.008
42.0	572.935	582.367	591.151	597.797	604.077	609.487	612.393
42.5	564.585	574.476	582.780	590.303	596.478	601.910	604.644
43.0	556.202	566.151	575.060	582.412	588.880	594.336	597.058
43.5	547.476	557.646	566.481	574.359	581.081	586.725	588.667
44.0	538.475	549.359	558.185	565.984	573.006	578.450	580.772
44.5	529.766	540.926	549.902	557.663	564.569	570.318	572.514
45.0	520.815	532.100	541.614	549.392	556.285	562.210	564.468
45.5	511.759	523.495	533.031	541.151	548.002	553.885	555.626
46.0	502.774	515.082	524.518	532.667	539.660	545.510	547.572
46.5	494.003	506.490	515.984	523.975	531.448	536.842	538.851
47.0	484.166	497.426	507.588	515.345	522.259	528.380	530.075
47.5	474.560	488.346	498.512	506.707	513.692	519.512	521.345
48.0	464.978	479.891	489.995	497.981	505.062	510.761	512.669
48.5	455.639	470.965	481.448	489.189	496.562	501.960	503.651
49.0	445.660	461.601	472.781	480.601	487.460	493.009	494.950
49.5	435.807	452.474	463.763	471.892	478.614	484.066	485.415
50.0	426.130	443.732	455.100	463.137	469.671	475.165	476.422
50.5	416.431	435.361	446.391	454.390	461.120	466.068	467.249
51.0	406.603	424.894	437.498	445.894	451.789	456.824	458.273
51.5	396.809	415.680	428.689	436.768	443.139	447.815	448.449
52.0	387.356	406.090	419.734	428.251	434.279	438.826	439.769
52.5	377.842	396.525	411.058	419.554	425.261	429.833	430.706
53.0	368.452	386.956	402.061	411.116	416.239	420.731	421.090
53.5	359.092	377.854	393.410	401.923	407.609	411.701	411.789
54.0	350.028	368.410	384.292	393.465	398.946	402.712	402.883
54.5	340.834	358.916	375.078	384.597	390.095	393.723	393.773
55.0	332.088	349.648	366.047	375.946	381.399	384.860	384.885
55.5	323.492	340.784	357.393	367.337	372.869	376.226	375.675
56.0	315.484	331.791	348.454	358.804	364.306	367.550	366.690
56.5	307.009	322.665	339.377	350.003	355.530	358.587	357.948
57.0	298.784	313.985	330.167	341.411	347.168	350.103	349.406
57.5	291.478	305.873	321.867	332.877	338.714	341.791	340.880
58.0	283.687	299.068	312.941	324.439	330.313	333.198	332.255
58.5	275.254	290.426	304.512	316.219	322.156	324.995	323.967
59.0	267.768	281.232	296.212	307.794	314.190	316.870	315.926
59.5	260.482	273.062	289.732	299.565	306.144	308.992	307.806
60.0	253.343	265.313	280.969	291.482	298.116	300.867	299.874
60.5	246.333	257.597	271.638	283.533	290.204	293.127	292.513
61.0	239.666	250.283	263.430	276.272	282.551	285.591	285.207
61.5	233.282	243.327	255.978	268.018	275.028	278.155	277.901
62.0	226.715	236.535	248.625	260.416	267.768	270.828	270.590
62.5	220.290	229.320	241.211	252.955	260.495	263.835	263.284
63.0	214.294	223.479	234.046	245.682	253.393	256.675	255.978
63.5	208.495	217.234	228.302	238.756	246.488	249.870	249.139
64.0	202.550	211.309	223.020	231.750	239.728	243.227	242.413
64.5	196.793	203.907	214.111	225.696	233.136	236.585	236.096
65.0	191.399	198.279	207.748	220.640	226.757	230.306	229.817
65.5	186.167	192.476	201.556	212.666	220.461	224.143	223.600
66.0	180.790	186.969	195.557	206.283	214.382	218.190	217.597
66.5	175.738	181.241	189.892	200.291	208.537	212.303	211.856
67.0	170.770	176.227	185.612	194.563	202.851	206.587	206.245
67.5	165.902	171.012	179.112	189.904	197.336	201.172	200.667

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68.0	161.184	166.136	173.697	185.111	192.004	195.795	195.348
68.5	156.871	161.101	168.720	178.519	186.719	190.635	190.284
69.0	152.333	156.625	163.944	173.463	181.700	185.504	185.249
69.5	147.962	151.874	159.239	168.620	176.824	180.619	180.289
70.0	143.699	147.394	155.444	165.756	171.964	175.784	175.596
70.5	139.921	143.236	150.162	160.103	167.309	171.142	171.016
71.0	136.047	139.282	145.983	154.934	162.917	166.708	166.658
71.5	132.218	135.203	141.912	150.763	158.458	162.324	162.353
72.0	128.565	131.320	137.863	148.425	154.141	157.969	158.032
72.5	125.212	127.680	133.976	142.464	149.962	153.794	153.878
73.0	121.676	124.131	130.193	138.330	145.762	149.674	149.853
73.5	118.311	120.490	126.448	134.752	141.670	145.624	145.941
74.0	114.967	117.117	122.837	130.945	138.994	141.599	142.021
74.5	111.819	113.890	119.372	126.862	133.583	137.708	138.155
75.0	108.466	110.600	115.894	123.476	130.356	133.834	134.260
75.5	105.202	107.201	112.383	119.338	125.784	129.972	130.456
76.0	101.841	104.008	108.951	115.606	121.960	126.135	126.724
76.5	98.605	100.847	105.552	111.978	118.399	122.261	122.941
77.0	95.073	97.570	102.146	108.132	114.236	118.395	118.975
77.5	91.545	94.246	98.701	104.488	110.337	114.541	115.126
78.0	87.963	90.940	95.286	100.755	108.333	110.663	111.251
78.5	84.489	87.608	91.863	96.969	102.596	107.227	107.289
79.0	80.832	84.005	88.314	93.228	98.939	104.150	103.106
79.5	77.146	80.369	84.694	89.537	98.142	99.031	99.073
80.0	73.330	76.766	81.166	85.663	93.436	94.614	94.981
80.5	69.518	72.883	77.496	81.843	88.811	90.518	90.748
81.0	65.706	69.004	73.438	77.993	85.141	87.003	86.431
81.5	61.894	65.122	69.380	73.956	80.619	83.141	82.147
82.0	58.074	61.243	65.322	69.923	75.146	78.085	77.622
82.5	54.054	57.360	61.264	65.890	70.908	73.647	73.017
83.0	49.875	53.106	57.193	61.853	66.675	69.213	68.428
83.5	45.712	48.847	52.839	57.824	62.437	64.779	63.794
84.0	41.508	44.631	48.526	53.878	58.195	60.341	59.039
84.5	37.254	40.155	43.917	49.127	53.812	55.907	54.041
85.0	32.841	35.500	39.358	44.305	49.908	51.783	49.056
85.5	28.565	31.029	34.652	39.600	45.470	46.351	44.101
86.0	24.440	26.595	29.964	34.707	40.347	41.533	39.116
86.5	20.332	22.274	25.175	29.793	34.690	36.356	34.302
87.0	16.408	18.261	20.817	24.774	29.601	31.383	29.254
87.5	13.256	14.821	16.491	19.919	24.086	26.461	24.002
88.0	10.108	11.381	13.272	16.053	18.541	20.766	18.733
88.5	6.956	7.937	10.058	12.183	14.934	16.717	13.469
89.0	3.808	4.496	6.839	8.312	11.331	12.671	8.200
89.5	0.756	1.207	3.620	4.446	7.724	8.621	2.931
90.0	0.209	0.326	0.472	0.660	4.121	4.572	2.158
90.5	0.213	0.338	0.459	0.530	0.555	0.614	1.591
91.0	0.221	0.347	0.463	0.543	0.593	0.651	1.023
91.5	0.242	0.359	0.472	0.534	0.584	0.639	0.455
92.0	0.250	0.376	0.480	0.530	0.584	0.622	0.426
92.5	0.255	0.372	0.480	0.555	0.601	0.672	0.455
93.0	0.250	0.359	0.509	0.555	0.618	0.655	0.455
93.5	0.246	0.359	0.476	0.580	0.635	0.676	0.476
94.0	0.250	0.359	0.488	0.605	0.639	0.681	0.476
94.5	0.246	0.372	0.501	0.597	0.655	0.676	0.476
95.0	0.246	0.376	0.522	0.593	0.672	0.672	0.484
95.5	0.250	0.384	0.522	0.593	0.685	0.668	0.484

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CANDELA TABULATION - (Cont.)

96.0	0.255	0.392	0.518	0.610	0.701	0.668	0.493
96.5	0.263	0.392	0.509	0.622	0.706	0.681	0.505
97.0	0.263	0.392	0.501	0.635	0.706	0.685	0.509
97.5	0.263	0.388	0.505	0.651	0.697	0.676	0.505
98.0	0.263	0.384	0.505	0.643	0.697	0.676	0.497
98.5	0.259	0.380	0.514	0.639	0.701	0.672	0.488
99.0	0.259	0.380	0.534	0.635	0.706	0.685	0.480
99.5	0.259	0.384	0.547	0.630	0.710	0.689	0.476
100.0	0.259	0.392	0.543	0.630	0.710	0.676	0.472
100.5	0.263	0.405	0.534	0.630	0.714	0.676	0.472
101.0	0.271	0.401	0.530	0.630	0.706	0.685	0.472
101.5	0.280	0.405	0.522	0.626	0.701	0.693	0.476
102.0	0.284	0.405	0.518	0.614	0.697	0.697	0.476
102.5	0.288	0.401	0.514	0.597	0.701	0.701	0.480
103.0	0.288	0.397	0.514	0.589	0.706	0.706	0.484
103.5	0.292	0.397	0.518	0.584	0.718	0.689	0.488
104.0	0.292	0.401	0.518	0.584	0.718	0.676	0.501
104.5	0.292	0.397	0.518	0.589	0.722	0.668	0.505
105.0	0.292	0.397	0.522	0.593	0.710	0.660	0.509
105.5	0.292	0.397	0.522	0.589	0.701	0.660	0.509
106.0	0.292	0.397	0.509	0.580	0.697	0.664	0.509
106.5	0.292	0.397	0.497	0.568	0.693	0.664	0.509
107.0	0.292	0.397	0.484	0.551	0.676	0.651	0.505
107.5	0.296	0.392	0.476	0.539	0.664	0.635	0.501
108.0	0.296	0.388	0.472	0.530	0.647	0.622	0.493
108.5	0.292	0.384	0.472	0.522	0.635	0.605	0.480
109.0	0.292	0.380	0.476	0.514	0.618	0.589	0.468
109.5	0.288	0.372	0.468	0.501	0.601	0.572	0.463
110.0	0.288	0.372	0.459	0.493	0.593	0.564	0.463
110.5	0.288	0.367	0.451	0.484	0.576	0.551	0.463
111.0	0.284	0.367	0.443	0.476	0.568	0.539	0.459
111.5	0.280	0.363	0.434	0.468	0.559	0.526	0.455
112.0	0.280	0.363	0.426	0.463	0.547	0.518	0.451
112.5	0.276	0.359	0.422	0.455	0.539	0.505	0.447
113.0	0.276	0.355	0.413	0.451	0.534	0.501	0.438
113.5	0.276	0.355	0.409	0.447	0.526	0.493	0.443
114.0	0.271	0.347	0.405	0.438	0.514	0.484	0.447
114.5	0.271	0.342	0.397	0.430	0.501	0.484	0.447
115.0	0.267	0.338	0.392	0.430	0.493	0.480	0.451
115.5	0.263	0.338	0.384	0.422	0.480	0.472	0.451
116.0	0.259	0.334	0.380	0.417	0.472	0.463	0.451
116.5	0.259	0.330	0.376	0.409	0.472	0.463	0.455
117.0	0.255	0.326	0.372	0.409	0.463	0.463	0.455
117.5	0.250	0.321	0.367	0.405	0.455	0.459	0.455
118.0	0.246	0.317	0.363	0.401	0.447	0.459	0.451
118.5	0.246	0.313	0.363	0.405	0.443	0.451	0.455
119.0	0.242	0.309	0.359	0.409	0.438	0.447	0.451
119.5	0.238	0.305	0.359	0.405	0.430	0.451	0.447
120.0	0.238	0.305	0.355	0.401	0.430	0.447	0.451
120.5	0.230	0.301	0.355	0.397	0.422	0.447	0.451
121.0	0.230	0.301	0.355	0.397	0.422	0.451	0.443
121.5	0.230	0.301	0.351	0.397	0.422	0.451	0.451
122.0	0.230	0.301	0.351	0.397	0.422	0.447	0.447
122.5	0.230	0.296	0.347	0.397	0.417	0.451	0.447
123.0	0.230	0.296	0.347	0.392	0.417	0.447	0.443
123.5	0.230	0.292	0.347	0.392	0.422	0.447	0.438

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CANDELA TABULATION - (Cont.)

124.0	0.230	0.292	0.351	0.392	0.422	0.447	0.438
124.5	0.230	0.292	0.351	0.397	0.422	0.447	0.447
125.0	0.234	0.288	0.351	0.397	0.422	0.447	0.443
125.5	0.234	0.288	0.351	0.392	0.417	0.443	0.443
126.0	0.234	0.288	0.351	0.397	0.413	0.443	0.443
126.5	0.234	0.288	0.347	0.388	0.409	0.443	0.438
127.0	0.234	0.288	0.347	0.388	0.409	0.434	0.438
127.5	0.238	0.288	0.351	0.384	0.405	0.430	0.447
128.0	0.238	0.292	0.347	0.376	0.405	0.430	0.438
128.5	0.242	0.292	0.347	0.376	0.405	0.430	0.434
129.0	0.242	0.292	0.342	0.372	0.401	0.422	0.447
129.5	0.246	0.292	0.342	0.372	0.401	0.426	0.447
130.0	0.246	0.292	0.342	0.367	0.401	0.426	0.438
130.5	0.246	0.292	0.342	0.376	0.397	0.422	0.434
131.0	0.250	0.292	0.342	0.372	0.397	0.422	0.443
131.5	0.259	0.296	0.342	0.372	0.392	0.422	0.443
132.0	0.259	0.301	0.347	0.372	0.392	0.413	0.438
132.5	0.263	0.305	0.351	0.380	0.392	0.422	0.438
133.0	0.267	0.305	0.351	0.376	0.392	0.422	0.443
133.5	0.271	0.309	0.351	0.376	0.397	0.422	0.438
134.0	0.276	0.309	0.347	0.380	0.401	0.413	0.430
134.5	0.280	0.309	0.342	0.376	0.401	0.422	0.434
135.0	0.288	0.309	0.342	0.380	0.397	0.422	0.434
135.5	0.296	0.309	0.338	0.380	0.397	0.426	0.434
136.0	0.301	0.309	0.338	0.380	0.392	0.422	0.434
136.5	0.305	0.309	0.334	0.376	0.397	0.426	0.434
137.0	0.309	0.313	0.338	0.376	0.392	0.422	0.434
137.5	0.313	0.305	0.338	0.380	0.388	0.417	0.434
138.0	0.317	0.301	0.342	0.380	0.388	0.417	0.434
138.5	0.317	0.296	0.347	0.376	0.384	0.405	0.434
139.0	0.317	0.296	0.347	0.376	0.388	0.409	0.434
139.5	0.321	0.296	0.347	0.372	0.384	0.409	0.430
140.0	0.321	0.296	0.347	0.367	0.380	0.409	0.430
140.5	0.326	0.296	0.347	0.363	0.380	0.405	0.434
141.0	0.326	0.305	0.342	0.367	0.376	0.397	0.434
141.5	0.326	0.309	0.334	0.372	0.372	0.388	0.434
142.0	0.317	0.305	0.330	0.376	0.367	0.384	0.434
142.5	0.317	0.309	0.326	0.376	0.359	0.384	0.430
143.0	0.317	0.313	0.321	0.376	0.363	0.384	0.430
143.5	0.317	0.317	0.317	0.376	0.367	0.380	0.430
144.0	0.317	0.321	0.317	0.372	0.363	0.372	0.430
144.5	0.317	0.334	0.321	0.372	0.367	0.372	0.430
145.0	0.321	0.338	0.321	0.363	0.372	0.372	0.430
145.5	0.321	0.342	0.321	0.351	0.372	0.372	0.426
146.0	0.326	0.347	0.326	0.347	0.372	0.372	0.430
146.5	0.330	0.347	0.334	0.342	0.372	0.372	0.434
147.0	0.330	0.351	0.334	0.334	0.372	0.367	0.434
147.5	0.334	0.355	0.330	0.334	0.355	0.363	0.430
148.0	0.334	0.359	0.334	0.334	0.347	0.363	0.426
148.5	0.338	0.367	0.334	0.338	0.347	0.351	0.413
149.0	0.338	0.363	0.338	0.334	0.342	0.334	0.397
149.5	0.330	0.355	0.347	0.334	0.338	0.330	0.392
150.0	0.330	0.351	0.355	0.342	0.338	0.321	0.388
150.5	0.330	0.351	0.359	0.342	0.342	0.317	0.380
151.0	0.330	0.355	0.367	0.347	0.347	0.317	0.376
151.5	0.330	0.355	0.367	0.351	0.351	0.321	0.380

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CANDELA TABULATION - (Cont.)

152.0	0.330	0.355	0.372	0.355	0.372	0.326	0.384
152.5	0.330	0.359	0.372	0.363	0.367	0.326	0.388
153.0	0.334	0.359	0.380	0.372	0.372	0.342	0.401
153.5	0.334	0.359	0.384	0.376	0.372	0.351	0.409
154.0	0.338	0.359	0.380	0.376	0.376	0.355	0.409
154.5	0.342	0.359	0.380	0.380	0.380	0.359	0.413
155.0	0.342	0.359	0.380	0.384	0.388	0.359	0.417
155.5	0.342	0.359	0.388	0.388	0.392	0.363	0.422
156.0	0.342	0.359	0.388	0.392	0.397	0.372	0.430
156.5	0.342	0.359	0.384	0.401	0.397	0.376	0.430
157.0	0.342	0.359	0.380	0.405	0.397	0.384	0.434
157.5	0.342	0.359	0.380	0.405	0.401	0.388	0.438
158.0	0.347	0.363	0.380	0.409	0.405	0.392	0.438
158.5	0.351	0.359	0.384	0.409	0.401	0.392	0.438
159.0	0.355	0.359	0.380	0.405	0.401	0.392	0.443
159.5	0.355	0.359	0.380	0.409	0.405	0.397	0.443
160.0	0.359	0.359	0.376	0.409	0.405	0.397	0.443
160.5	0.359	0.359	0.376	0.409	0.401	0.397	0.443
161.0	0.359	0.359	0.376	0.409	0.401	0.397	0.443
161.5	0.359	0.359	0.380	0.405	0.401	0.397	0.443
162.0	0.355	0.359	0.384	0.405	0.397	0.392	0.443
162.5	0.355	0.359	0.388	0.405	0.388	0.392	0.443
163.0	0.355	0.359	0.388	0.401	0.388	0.392	0.447
163.5	0.359	0.363	0.384	0.401	0.388	0.392	0.447
164.0	0.363	0.367	0.388	0.397	0.388	0.392	0.443
164.5	0.359	0.372	0.392	0.392	0.388	0.392	0.443
165.0	0.363	0.376	0.392	0.392	0.392	0.392	0.443
165.5	0.363	0.376	0.392	0.392	0.388	0.392	0.447
166.0	0.367	0.380	0.401	0.401	0.388	0.397	0.451
166.5	0.376	0.388	0.405	0.401	0.392	0.401	0.455
167.0	0.380	0.392	0.409	0.405	0.397	0.401	0.455
167.5	0.380	0.401	0.401	0.409	0.405	0.401	0.455
168.0	0.384	0.405	0.405	0.417	0.409	0.409	0.463
168.5	0.388	0.405	0.417	0.417	0.417	0.413	0.468
169.0	0.392	0.409	0.417	0.417	0.417	0.417	0.472
169.5	0.397	0.405	0.409	0.417	0.422	0.417	0.472
170.0	0.401	0.401	0.409	0.422	0.422	0.422	0.472
170.5	0.401	0.397	0.409	0.426	0.430	0.426	0.468
171.0	0.405	0.397	0.413	0.434	0.434	0.434	0.468
171.5	0.409	0.397	0.413	0.438	0.434	0.443	0.472
172.0	0.405	0.397	0.413	0.438	0.438	0.447	0.476
172.5	0.401	0.397	0.417	0.443	0.438	0.447	0.480
173.0	0.401	0.392	0.422	0.443	0.438	0.451	0.484
173.5	0.409	0.397	0.426	0.443	0.443	0.451	0.488
174.0	0.417	0.405	0.430	0.447	0.443	0.451	0.493
174.5	0.426	0.417	0.434	0.447	0.447	0.455	0.497
175.0	0.434	0.417	0.438	0.451	0.451	0.455	0.497
175.5	0.434	0.417	0.443	0.455	0.455	0.455	0.497
176.0	0.438	0.417	0.447	0.459	0.455	0.459	0.493
176.5	0.438	0.422	0.451	0.459	0.459	0.459	0.493
177.0	0.443	0.426	0.459	0.459	0.455	0.459	0.493
177.5	0.443	0.430	0.459	0.455	0.451	0.455	0.488
178.0	0.443	0.434	0.459	0.455	0.451	0.451	0.484
178.5	0.447	0.434	0.459	0.451	0.447	0.451	0.480
179.0	0.447	0.438	0.455	0.451	0.447	0.451	0.476
179.5	0.443	0.438	0.455	0.451	0.447	0.451	0.476

CANDELA TABULATION - (Cont.)

180.0	0.476	0.476	0.476	0.476	0.476	0.476	0.476
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	324.33	N.A.	14.60
0-30	688.46	N.A.	30.90
0-40	1118.8	N.A.	50.20
0-60	1849.5	N.A.	83.00
0-80	2179.27	N.A.	97.80
0-90	2224.93	N.A.	99.90
10-90	2141.11	N.A.	96.10
20-40	794.47	N.A.	35.70
20-50	1207.98	N.A.	54.20
40-70	935.92	N.A.	42.00
60-80	329.77	N.A.	14.80
70-80	124.54	N.A.	5.60
80-90	45.66	N.A.	2.10
90-110	0.92	N.A.	0.00
90-120	1.25	N.A.	0.10
90-130	1.54	N.A.	0.10
90-150	2.03	N.A.	0.10
90-180	2.35	N.A.	0.10
110-180	1.43	N.A.	0.10
0-180	2227.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	83.82
10-20	240.51
20-30	364.12
30-40	430.35
40-50	413.51
50-60	317.19
60-70	205.22
70-80	124.54
80-90	45.66
90-100	0.52
100-110	0.40
110-120	0.33
120-130	0.29
130-140	0.27
140-150	0.22
150-160	0.17
160-170	0.11
170-180	0.04

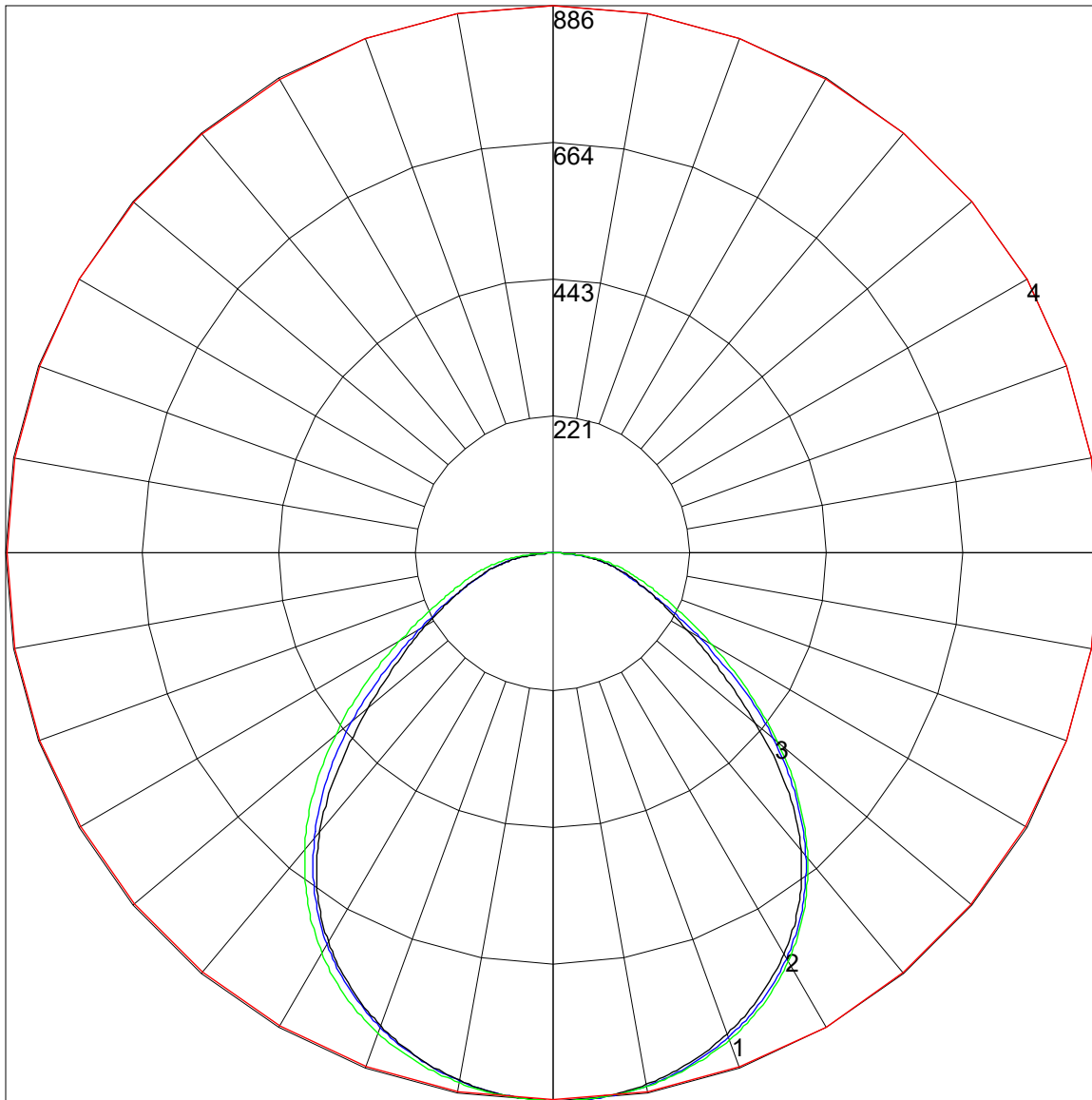
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	44	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 885.647 Located At Horizontal Angle = 50, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)