



IES ROAD REPORT

PHOTOMETRIC FILENAME : SWPL-WB-LED-PL1-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]DCL-200-100W-50K-8-D-3PC
[TESTLAB]Standard-Tech Co., Ltd.
[TESTDATE]2016-01-08
[ISSUE DATE]2016-05-18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SWPL-WB-LED-PL1-50
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9235
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	101.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.20
Maximum Candela	3938.679
Maximum Candela Angle	360H 55V
Maximum Candela (<90 Degrees Vertical)	3938.679
Maximum Candela Angle (<90 Degrees Vertical)	360H 55V
Maximum Candela At 90 Degrees Vertical	2658.348 (28.8% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2537.045 (27.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1004.6	N.A.	10.9
FM - Front-Medium (30-60)	2598.9	N.A.	28.1
FH - Front-High (60-80)	1793.9	N.A.	19.4
FVH - Front-Very High (80-90)	659.2	N.A.	7.1
BL - Back-Low (0-30)	534.6	N.A.	5.8
BM - Back-Medium (30-60)	599.0	N.A.	6.5
BH - Back-High (60-80)	146.2	N.A.	1.6
BVH - Back-Very High (80-90)	23.0	N.A.	0.2
UL - Uplight-Low (90-100)	763.2	N.A.	8.3
UH - Uplight-High (100-180)	1112.6	N.A.	12.0
Total	9235.2	N.A.	100.0
BUG Rating	B2-U5-G4		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	2272.994	2271.507	2270.021	2268.535	2267.049	2265.563	2264.077	2262.591	2261.105	2259.619
5.0	2340.211	2337.689	2335.166	2332.644	2330.122	2327.599	2325.077	2322.555	2320.032	2317.510
7.5	2491.797	2490.998	2490.200	2489.402	2488.603	2487.805	2487.007	2486.209	2485.410	2484.612
10.0	2682.645	2681.233	2679.821	2678.408	2676.996	2675.584	2674.172	2672.759	2671.347	2669.935
12.5	2508.009	2509.055	2510.101	2511.147	2512.193	2513.239	2514.285	2515.331	2516.377	2517.423
15.0	2817.153	2789.740	2762.327	2734.914	2707.501	2680.089	2652.676	2625.263	2597.850	2570.437
17.5	2490.504	2515.846	2541.188	2566.530	2591.872	2617.214	2642.556	2667.898	2693.240	2718.582
20.0	2438.885	2434.829	2430.773	2426.717	2422.661	2418.606	2414.550	2410.494	2406.438	2402.382
22.5	2871.527	2837.449	2803.372	2769.294	2735.217	2701.139	2667.061	2632.984	2598.906	2564.829
25.0	2612.379	2628.666	2644.952	2661.239	2677.525	2693.812	2710.098	2726.385	2742.671	2758.958
27.5	2542.864	2539.360	2535.855	2532.351	2528.847	2525.343	2521.838	2518.334	2514.830	2511.326
30.0	2784.481	2750.196	2715.911	2681.625	2647.340	2613.055	2578.770	2544.484	2510.199	2475.914
32.5	2832.495	2822.242	2811.990	2801.737	2791.485	2781.232	2770.980	2760.727	2750.475	2740.222
35.0	2661.067	2654.301	2647.535	2640.769	2634.003	2627.237	2620.471	2613.705	2606.939	2600.173
37.5	2789.874	2763.344	2736.814	2710.284	2683.754	2657.224	2630.694	2604.164	2577.634	2551.104
40.0	2919.504	2898.406	2877.308	2856.211	2835.113	2814.015	2792.917	2771.820	2750.722	2729.624
42.5	3031.151	3001.843	2972.535	2943.227	2913.919	2884.610	2855.302	2825.994	2796.686	2767.378
45.0	3344.729	3296.206	3247.683	3199.159	3150.636	3102.113	3053.590	3005.066	2956.543	2908.020
47.5	3307.825	3271.086	3234.348	3197.609	3160.871	3124.132	3087.394	3050.655	3013.917	2977.179
50.0	3081.688	3061.232	3040.776	3020.321	2999.865	2979.409	2958.953	2938.498	2918.042	2897.586
52.5	3344.019	3293.140	3242.261	3191.383	3140.504	3089.626	3038.747	2987.869	2936.990	2886.112
55.0	3938.679	3856.264	3773.849	3691.434	3609.019	3526.605	3444.190	3361.775	3279.360	3196.945
57.5	3312.958	3305.658	3298.358	3291.057	3283.757	3276.456	3269.156	3261.855	3254.555	3247.255
60.0	3166.436	3150.032	3133.627	3117.223	3100.818	3084.414	3068.009	3051.605	3035.200	3018.796
62.5	3292.570	3258.550	3224.531	3190.511	3156.491	3122.471	3088.452	3054.432	3020.412	2986.393
65.0	3774.373	3722.431	3670.489	3618.548	3566.606	3514.664	3462.722	3410.781	3358.839	3306.897
67.5	3375.341	3357.554	3339.767	3321.980	3304.193	3286.406	3268.619	3250.832	3233.045	3215.258
70.0	3200.632	3172.749	3144.866	3116.982	3089.099	3061.216	3033.333	3005.449	2977.566	2949.683
72.5	3358.470	3305.636	3252.802	3199.968	3147.134	3094.300	3041.466	2988.632	2935.798	2882.965
75.0	3139.564	3105.351	3071.138	3036.924	3002.711	2968.498	2934.285	2900.071	2865.858	2831.645
77.5	2144.707	2127.963	2111.219	2094.476	2077.732	2060.988	2044.244	2027.501	2010.757	1994.013
80.0	1500.370	1483.946	1467.522	1451.098	1434.674	1418.251	1401.827	1385.403	1368.979	1352.555
82.5	1595.970	1569.163	1542.356	1515.549	1488.742	1461.935	1435.128	1408.321	1381.514	1354.708
85.0	1966.630	1914.670	1862.710	1810.750	1758.790	1706.830	1654.870	1602.910	1550.950	1498.990
87.5	2537.045	2466.372	2395.699	2325.026	2254.353	2183.680	2113.007	2042.334	1971.661	1900.989
90.0	2658.348	2598.784	2539.220	2479.657	2420.093	2360.529	2300.965	2241.402	2181.838	2122.274
92.5	2772.729	2696.282	2619.836	2543.389	2466.943	2390.496	2314.049	2237.603	2161.156	2084.710
95.0	2689.979	2617.295	2544.612	2471.928	2399.244	2326.561	2253.877	2181.193	2108.510	2035.826
97.5	2564.772	2496.255	2427.737	2359.220	2290.703	2222.186	2153.668	2085.151	2016.634	1948.117
100.0	2244.267	2194.502	2144.737	2094.972	2045.207	1995.442	1945.677	1895.912	1846.147	1796.382
102.5	1587.143	1584.283	1581.424	1578.564	1575.705	1572.846	1569.986	1567.127	1564.267	1561.408
105.0	1536.389	1523.899	1511.408	1498.918	1486.427	1473.937	1461.446	1448.956	1436.465	1423.975
107.5	1346.257	1330.206	1314.156	1298.106	1282.055	1266.005	1249.955	1233.905	1217.854	1201.804
110.0	1023.212	1017.391	1011.571	1005.750	999.929	994.109	988.288	982.467	976.647	970.826
112.5	914.789	906.612	898.435	890.258	882.081	873.904	865.727	857.550	849.373	841.196
115.0	851.964	839.488	827.013	814.537	802.062	789.586	777.111	764.635	752.160	739.684
117.5	779.097	765.032	750.967	736.901	722.836	708.771	694.706	680.640	666.575	652.510
120.0	705.488	691.520	677.552	663.584	649.616	635.649	621.681	607.713	593.745	579.777
122.5	709.953	689.980	670.006	650.033	630.059	610.086	590.113	570.139	550.166	530.193
125.0	665.689	647.259	628.829	610.399	591.969	573.538	555.108	536.678	518.248	499.818
127.5	637.715	617.716	597.717	577.719	557.720	537.721	517.723	497.724	477.726	457.727
130.0	569.116	551.717	534.318	516.919	499.520	482.121	464.722	447.323	429.924	412.525

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CANDELA TABULATION - (Cont.)

132.5	489.570	476.385	463.200	450.016	436.831	423.646	410.462	397.277	384.093	370.908
135.0	426.255	415.964	405.673	395.383	385.092	374.801	364.510	354.220	343.929	333.638
137.5	384.566	375.884	367.202	358.520	349.839	341.157	332.475	323.793	315.112	306.430
140.0	336.079	329.966	323.854	317.741	311.629	305.516	299.404	293.291	287.179	281.066
142.5	289.672	285.503	281.334	277.164	272.995	268.826	264.657	260.487	256.318	252.149
145.0	256.841	253.348	249.855	246.362	242.869	239.377	235.884	232.391	228.898	225.405
147.5	226.029	223.862	221.696	219.529	217.363	215.196	213.030	210.863	208.697	206.531
150.0	206.154	204.694	203.234	201.773	200.313	198.853	197.393	195.932	194.472	193.012
152.5	187.517	185.880	184.244	182.607	180.971	179.334	177.697	176.061	174.424	172.788
155.0	169.538	167.607	165.677	163.746	161.815	159.885	157.954	156.023	154.093	152.162
157.5	145.884	143.908	141.931	139.955	137.978	136.002	134.025	132.049	130.072	128.096
160.0	112.703	109.829	106.955	104.082	101.208	98.334	95.460	92.587	89.713	86.839
162.5	66.538	64.361	62.183	60.006	57.829	55.651	53.474	51.297	49.119	46.942
165.0	27.666	25.733	23.800	21.867	19.934	18.001	16.068	14.135	12.202	10.269
167.5	5.861	5.770	5.680	5.589	5.499	5.409	5.318	5.228	5.137	5.047
170.0	5.809	5.713	5.617	5.521	5.425	5.328	5.232	5.136	5.040	4.944
172.5	5.840	5.728	5.616	5.504	5.392	5.279	5.167	5.055	4.943	4.831
175.0	6.087	5.951	5.815	5.679	5.543	5.406	5.270	5.134	4.998	4.862
177.5	6.087	5.993	5.899	5.806	5.712	5.618	5.524	5.431	5.337	5.243
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Vert. Angles **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	2255.641	2251.663	2247.685	2243.707	2239.729	2235.751	2231.773	2227.795	2223.817	2215.857
5.0	2324.529	2331.548	2338.567	2345.586	2352.604	2359.623	2366.642	2373.661	2380.680	2362.044
7.5	2469.354	2454.095	2438.837	2423.579	2408.321	2393.062	2377.804	2362.546	2347.288	2341.376
10.0	2643.511	2617.087	2590.663	2564.239	2537.814	2511.390	2484.966	2458.542	2432.118	2416.208
12.5	2526.647	2535.871	2545.096	2554.320	2563.544	2572.768	2581.993	2591.217	2600.441	2565.856
15.0	2571.069	2571.701	2572.332	2572.964	2573.596	2574.228	2574.859	2575.491	2576.123	2543.558
17.5	2686.457	2654.332	2622.207	2590.081	2557.956	2525.831	2493.706	2461.581	2429.456	2413.623
20.0	2424.759	2447.137	2469.514	2491.891	2514.269	2536.646	2559.023	2581.401	2603.778	2573.693
22.5	2564.954	2565.079	2565.205	2565.330	2565.455	2565.581	2565.706	2565.831	2565.957	2544.623
25.0	2711.101	2663.244	2615.386	2567.529	2519.672	2471.815	2423.957	2376.100	2328.243	2330.578
27.5	2491.868	2472.410	2452.952	2433.494	2414.036	2394.578	2375.120	2355.662	2336.205	2314.588
30.0	2478.190	2480.467	2482.743	2485.019	2487.296	2489.572	2491.848	2494.125	2496.401	2453.996
32.5	2702.889	2665.555	2628.222	2590.888	2553.555	2516.221	2478.888	2441.554	2404.221	2374.832
35.0	2564.894	2529.616	2494.337	2459.058	2423.780	2388.501	2353.222	2317.944	2282.665	2268.464
37.5	2525.562	2500.021	2474.479	2448.937	2423.395	2397.854	2372.312	2346.770	2321.229	2289.138
40.0	2686.238	2642.852	2599.466	2556.080	2512.695	2469.309	2425.923	2382.537	2339.151	2294.878
42.5	2718.177	2668.976	2619.776	2570.575	2521.374	2472.173	2422.973	2373.772	2324.571	2273.470
45.0	2840.161	2772.302	2704.444	2636.585	2568.726	2500.867	2433.009	2365.150	2297.291	2243.518
47.5	2903.042	2828.906	2754.769	2680.633	2606.496	2532.360	2458.223	2384.087	2309.951	2248.371
50.0	2834.537	2771.489	2708.440	2645.391	2582.343	2519.294	2456.245	2393.197	2330.148	2254.417
52.5	2819.485	2752.859	2686.233	2619.607	2552.981	2486.355	2419.729	2353.103	2286.477	2206.630
55.0	3088.932	2980.920	2872.907	2764.894	2656.882	2548.869	2440.856	2332.844	2224.831	2135.228
57.5	3131.260	3015.266	2899.271	2783.277	2667.282	2551.288	2435.293	2319.299	2203.304	2107.457
60.0	2928.974	2839.153	2749.331	2659.509	2569.688	2479.866	2390.044	2300.223	2210.401	2101.808
62.5	2885.052	2783.712	2682.372	2581.032	2479.692	2378.352	2277.012	2175.672	2074.332	1971.608
65.0	3149.253	2991.609	2833.966	2676.322	2518.678	2361.034	2203.391	2045.747	1888.103	1794.713
67.5	3060.078	2904.898	2749.719	2594.539	2439.359	2284.179	2129.000	1973.820	1818.640	1722.262
70.0	2819.448	2689.212	2558.977	2428.741	2298.506	2168.270	2038.035	1907.799	1777.564	1675.228
72.5	2726.098	2569.232	2412.366	2255.500	2098.634	1941.768	1784.902	1628.036	1471.170	1394.215
75.0	2656.837	2482.029	2307.221	2132.413	1957.604	1782.796	1607.988	1433.180	1258.372	1198.171
77.5	1907.645	1821.276	1734.908	1648.539	1562.171	1475.803	1389.434	1303.066	1216.698	1156.724

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CANDELA TABULATION - (Cont.)

80.0	1319.415	1286.276	1253.136	1219.996	1186.857	1153.717	1120.577	1087.438	1054.298	1015.142
82.5	1333.665	1312.623	1291.581	1270.538	1249.496	1228.454	1207.411	1186.369	1165.327	1117.781
85.0	1480.068	1461.146	1442.223	1423.301	1404.379	1385.457	1366.534	1347.612	1328.690	1265.481
87.5	1851.999	1803.009	1754.020	1705.030	1656.040	1607.051	1558.061	1509.072	1460.082	1381.550
90.0	2052.869	1983.464	1914.059	1844.654	1775.250	1705.845	1636.440	1567.035	1497.630	1410.818
92.5	2016.387	1948.065	1879.743	1811.421	1743.099	1674.777	1606.454	1538.132	1469.810	1380.217
95.0	1967.738	1899.651	1831.563	1763.476	1695.388	1627.301	1559.213	1491.126	1423.038	1332.238
97.5	1878.571	1809.026	1739.481	1669.936	1600.391	1530.846	1461.301	1391.756	1322.211	1235.442
100.0	1736.356	1676.330	1616.304	1556.278	1496.251	1436.225	1376.199	1316.173	1256.147	1169.387
102.5	1518.024	1474.641	1431.257	1387.874	1344.490	1301.106	1257.723	1214.339	1170.956	1086.217
105.0	1384.420	1344.864	1305.309	1265.753	1226.198	1186.642	1147.087	1107.531	1067.976	988.431
107.5	1171.490	1141.176	1110.862	1080.548	1050.234	1019.920	989.606	959.292	928.978	860.574
110.0	952.983	935.140	917.297	899.454	881.611	863.768	845.925	828.082	810.239	751.355
112.5	825.887	810.579	795.270	779.961	764.653	749.344	734.035	718.727	703.418	653.722
115.0	724.439	709.194	693.949	678.704	663.458	648.213	632.968	617.723	602.478	561.289
117.5	638.976	625.443	611.909	598.376	584.842	571.308	557.775	544.241	530.708	494.740
120.0	566.879	553.981	541.083	528.185	515.288	502.390	489.492	476.594	463.696	432.704
122.5	515.730	501.267	486.804	472.341	457.878	443.415	428.952	414.489	400.027	373.927
125.0	483.547	467.277	451.006	434.736	418.465	402.195	385.924	369.654	353.383	330.883
127.5	441.702	425.677	409.652	393.627	377.601	361.576	345.551	329.526	313.501	293.848
130.0	397.072	381.618	366.165	350.711	335.258	319.804	304.351	288.897	273.444	256.885
132.5	357.761	344.614	331.468	318.321	305.174	292.027	278.880	265.733	252.587	236.699
135.0	322.071	310.504	298.937	287.370	275.803	264.236	252.669	241.102	229.535	214.835
137.5	295.434	284.437	273.441	262.444	251.448	240.452	229.455	218.459	207.463	193.866
140.0	271.321	261.576	251.831	242.086	232.342	222.597	212.852	203.107	193.362	179.829
142.5	243.834	235.519	227.204	218.889	210.574	202.259	193.944	185.629	177.315	164.143
145.0	218.037	210.669	203.301	195.933	188.566	181.198	173.830	166.462	159.094	146.447
147.5	199.869	193.208	186.547	179.886	173.224	166.563	159.902	153.241	146.580	133.744
150.0	185.902	178.791	171.681	164.570	157.460	150.349	143.239	136.128	129.018	117.013
152.5	165.634	158.480	151.326	144.172	137.018	129.864	122.710	115.556	108.403	97.981
155.0	144.190	136.218	128.245	120.273	112.301	104.329	96.356	88.384	80.412	72.533
157.5	119.338	110.581	101.824	93.066	84.309	75.552	66.795	58.037	49.280	44.611
160.0	79.879	72.918	65.958	58.997	52.037	45.076	38.116	31.155	24.195	22.057
162.5	42.436	37.931	33.425	28.919	24.414	19.908	15.402	10.897	6.391	6.075
165.0	9.566	8.864	8.161	7.458	6.756	6.053	5.350	4.648	3.945	3.856
167.5	4.896	4.745	4.594	4.443	4.291	4.140	3.989	3.838	3.687	3.712
170.0	4.804	4.665	4.525	4.385	4.246	4.106	3.966	3.827	3.687	3.773
172.5	4.751	4.671	4.591	4.510	4.430	4.350	4.270	4.190	4.110	4.164
175.0	4.816	4.770	4.725	4.679	4.633	4.587	4.542	4.496	4.450	4.482
177.5	5.183	5.124	5.064	5.005	4.945	4.886	4.826	4.767	4.707	4.710
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Vert. Horizontal Angles
Angles

	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	72.5
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	2207.898	2199.939	2191.980	2184.021	2176.062	2168.103	2160.144	2152.185	2145.056	2137.928
5.0	2343.408	2324.772	2306.136	2287.499	2268.863	2250.227	2231.591	2212.955	2193.556	2174.156
7.5	2335.465	2329.554	2323.643	2317.732	2311.821	2305.910	2299.999	2294.088	2267.790	2241.492
10.0	2400.298	2384.388	2368.478	2352.568	2336.658	2320.748	2304.838	2288.928	2263.126	2237.325
12.5	2531.271	2496.686	2462.101	2427.515	2392.930	2358.345	2323.760	2289.175	2255.850	2222.525
15.0	2510.993	2478.427	2445.862	2413.297	2380.732	2348.166	2315.601	2283.036	2247.268	2211.499
17.5	2397.790	2381.957	2366.124	2350.292	2334.459	2318.626	2302.793	2286.961	2241.627	2196.294
20.0	2543.608	2513.523	2483.438	2453.352	2423.267	2393.182	2363.097	2333.012	2274.947	2216.883
22.5	2523.289	2501.956	2480.622	2459.289	2437.955	2416.622	2395.288	2373.955	2307.039	2240.123
25.0	2332.912	2335.247	2337.582	2339.916	2342.251	2344.586	2346.920	2349.255	2276.776	2204.297

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CANDELA TABULATION - (Cont.)

27.5	2292.971	2271.354	2249.737	2228.120	2206.504	2184.887	2163.270	2141.653	2085.550	2029.446
30.0	2411.591	2369.186	2326.781	2284.375	2241.970	2199.565	2157.160	2114.755	2054.914	1995.073
32.5	2345.444	2316.056	2286.668	2257.280	2227.892	2198.504	2169.116	2139.728	2069.497	1999.266
35.0	2254.262	2240.061	2225.860	2211.658	2197.457	2183.256	2169.054	2154.853	2075.108	1995.363
37.5	2257.047	2224.956	2192.865	2160.775	2128.684	2096.593	2064.502	2032.412	1958.547	1884.682
40.0	2250.605	2206.332	2162.059	2117.786	2073.514	2029.241	1984.968	1940.695	1867.402	1794.110
42.5	2222.369	2171.267	2120.166	2069.065	2017.964	1966.862	1915.761	1864.660	1791.066	1717.472
45.0	2189.745	2135.973	2082.200	2028.427	1974.654	1920.882	1867.109	1813.336	1736.437	1659.539
47.5	2186.791	2125.211	2063.632	2002.052	1940.472	1878.892	1817.313	1755.733	1676.313	1596.892
50.0	2178.685	2102.954	2027.223	1951.491	1875.760	1800.029	1724.297	1648.566	1571.654	1494.741
52.5	2126.783	2046.936	1967.089	1887.242	1807.396	1727.549	1647.702	1567.856	1490.290	1412.725
55.0	2045.625	1956.022	1866.419	1776.815	1687.212	1597.609	1508.006	1418.403	1347.713	1277.023
57.5	2011.610	1915.762	1819.915	1724.068	1628.221	1532.373	1436.526	1340.679	1268.807	1196.934
60.0	1993.215	1884.622	1776.029	1667.436	1558.843	1450.250	1341.657	1233.064	1163.409	1093.753
62.5	1868.884	1766.160	1663.436	1560.711	1457.987	1355.263	1252.539	1149.815	1081.845	1013.876
65.0	1701.323	1607.933	1514.543	1421.152	1327.762	1234.372	1140.982	1047.592	982.830	918.068
67.5	1625.885	1529.507	1433.129	1336.752	1240.374	1143.996	1047.619	951.241	889.355	827.468
70.0	1572.892	1470.555	1368.219	1265.883	1163.547	1061.210	958.874	856.538	797.796	739.054
72.5	1317.261	1240.307	1163.353	1086.399	1009.445	932.490	855.536	778.582	721.956	665.330
75.0	1137.970	1077.768	1017.567	957.366	897.165	836.963	776.762	716.561	660.734	604.907
77.5	1096.751	1036.777	976.804	916.830	856.857	796.883	736.910	676.937	621.198	565.459
80.0	975.986	936.830	897.674	858.517	819.361	780.205	741.049	701.893	639.976	578.060
82.5	1070.236	1022.690	975.145	927.599	880.054	832.509	784.963	737.418	668.605	599.793
85.0	1202.272	1139.063	1075.854	1012.645	949.437	886.228	823.019	759.810	686.844	613.877
87.5	1303.018	1224.487	1145.955	1067.423	988.891	910.359	831.827	753.296	680.842	608.388
90.0	1324.006	1237.195	1150.383	1063.571	976.759	889.948	803.136	716.324	648.233	580.142
92.5	1290.624	1201.032	1111.439	1021.846	932.253	842.660	753.067	663.475	602.332	541.189
95.0	1241.438	1150.637	1059.837	969.037	878.237	787.436	696.636	605.836	551.950	498.064
97.5	1148.672	1061.903	975.133	888.363	801.594	714.825	628.055	541.286	494.606	447.926
100.0	1082.626	995.866	909.106	822.345	735.585	648.825	562.064	475.304	435.689	396.074
102.5	1001.479	916.741	832.003	747.265	662.527	577.789	493.051	408.313	375.651	342.989
105.0	908.887	829.342	749.798	670.253	590.709	511.164	431.620	352.075	325.096	298.117
107.5	792.170	723.766	655.362	586.957	518.554	450.150	381.746	313.342	290.031	266.721
110.0	692.471	633.587	574.703	515.819	456.936	398.052	339.168	280.284	259.963	239.642
112.5	604.026	554.331	504.635	454.939	405.243	355.548	305.852	256.156	237.872	219.589
115.0	520.101	478.912	437.724	396.535	355.347	314.158	272.970	231.781	215.488	199.194
117.5	458.772	422.805	386.837	350.869	314.902	278.934	242.967	206.999	192.540	178.081
120.0	401.713	370.721	339.730	308.738	277.747	246.755	215.764	184.772	171.785	158.798
122.5	347.827	321.728	295.628	269.528	243.429	217.329	191.229	165.130	153.367	141.604
125.0	308.383	285.884	263.384	240.884	218.384	195.885	173.385	150.885	139.760	128.635
127.5	274.195	254.542	234.889	215.236	195.583	175.930	156.277	136.625	126.185	115.746
130.0	240.326	223.767	207.208	190.650	174.091	157.532	140.973	124.414	114.568	104.723
132.5	220.812	204.925	189.038	173.151	157.264	141.377	125.490	109.603	100.837	92.071
135.0	200.134	185.434	170.734	156.033	141.333	126.633	111.932	97.232	89.412	81.592
137.5	180.269	166.673	153.076	139.480	125.883	112.287	98.690	85.094	78.290	71.487
140.0	166.296	152.763	139.230	125.696	112.163	98.630	85.097	71.564	65.946	60.328
142.5	150.972	137.800	124.629	111.458	98.286	85.115	71.943	58.772	54.284	49.796
145.0	133.799	121.152	108.505	95.857	83.210	70.563	57.915	45.268	42.014	38.761
147.5	120.908	108.073	95.237	82.402	69.566	56.731	43.895	31.060	29.133	27.206
150.0	105.008	93.002	80.997	68.992	56.987	44.981	32.976	20.971	19.942	18.913
152.5	87.559	77.137	66.715	56.293	45.871	35.449	25.027	14.606	14.082	13.558
155.0	64.653	56.774	48.894	41.015	33.135	25.256	17.376	9.497	9.362	9.227
157.5	39.941	35.272	30.603	25.934	21.264	16.595	11.926	7.257	7.270	7.284
160.0	19.919	17.781	15.643	13.506	11.368	9.230	7.092	4.954	5.168	5.382
162.5	5.759	5.444	5.128	4.812	4.496	4.180	3.864	3.549	3.871	4.194
165.0	3.766	3.677	3.588	3.498	3.409	3.320	3.230	3.141	3.529	3.917

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CANDELA TABULATION - (Cont.)

167.5	3.736	3.761	3.785	3.810	3.835	3.859	3.884	3.909	4.267	4.625
170.0	3.859	3.945	4.031	4.116	4.202	4.288	4.374	4.460	4.769	5.078
172.5	4.219	4.274	4.329	4.384	4.439	4.494	4.549	4.604	4.890	5.175
175.0	4.514	4.546	4.578	4.610	4.642	4.674	4.706	4.738	5.007	5.276
177.5	4.714	4.717	4.721	4.724	4.728	4.731	4.735	4.738	5.007	5.276
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Vert. Angles **Horizontal Angles**

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	2130.799	2123.670	2116.541	2109.413	2102.284	2095.155	2088.027	2080.551	2073.075	2065.600
5.0	2154.757	2135.357	2115.958	2096.558	2077.159	2057.759	2038.360	2026.485	2014.610	2002.736
7.5	2215.193	2188.895	2162.597	2136.299	2110.000	2083.702	2057.404	2037.702	2018.000	1998.298
10.0	2211.523	2185.722	2159.920	2134.119	2108.317	2082.516	2056.714	2029.206	2001.698	1974.190
12.5	2189.200	2155.875	2122.549	2089.224	2055.899	2022.574	1989.249	1962.018	1934.787	1907.556
15.0	2175.731	2139.962	2104.194	2068.425	2032.657	1996.888	1961.120	1924.428	1887.736	1851.044
17.5	2150.961	2105.628	2060.295	2014.962	1969.628	1924.295	1878.962	1839.929	1800.896	1761.863
20.0	2158.818	2100.754	2042.689	1984.625	1926.560	1868.496	1810.431	1768.786	1727.141	1685.495
22.5	2173.207	2106.292	2039.376	1972.460	1905.544	1838.629	1771.713	1723.272	1674.830	1626.389
25.0	2131.819	2059.340	1986.861	1914.382	1841.904	1769.425	1696.946	1648.953	1600.959	1552.966
27.5	1973.343	1917.239	1861.136	1805.032	1748.929	1692.825	1636.722	1583.034	1529.346	1475.659
30.0	1935.233	1875.392	1815.551	1755.710	1695.870	1636.029	1576.188	1518.025	1459.862	1401.699
32.5	1929.036	1858.805	1788.574	1718.344	1648.113	1577.883	1507.652	1447.765	1387.878	1327.991
35.0	1915.618	1835.873	1756.129	1676.384	1596.639	1516.894	1437.149	1375.602	1314.055	1252.508
37.5	1810.817	1736.953	1663.088	1589.223	1515.358	1441.494	1367.629	1305.307	1242.985	1180.663
40.0	1720.817	1647.525	1574.232	1500.940	1427.647	1354.355	1281.062	1220.188	1159.314	1098.440
42.5	1643.878	1570.284	1496.690	1423.096	1349.502	1275.908	1202.314	1141.603	1080.893	1020.182
45.0	1582.640	1505.741	1428.843	1351.944	1275.045	1198.147	1121.248	1061.851	1002.455	943.058
47.5	1517.472	1438.051	1358.631	1279.210	1199.790	1120.369	1040.949	983.726	926.503	869.281
50.0	1417.829	1340.917	1264.004	1187.092	1110.180	1033.267	956.355	901.562	846.770	791.977
52.5	1335.160	1257.594	1180.029	1102.464	1024.899	947.333	869.768	818.643	767.519	716.394
55.0	1206.333	1135.643	1064.952	994.262	923.572	852.882	782.192	735.186	688.180	641.175
57.5	1125.062	1053.190	981.317	909.445	837.573	765.701	693.828	651.761	609.693	567.626
60.0	1024.098	954.442	884.787	815.131	745.476	675.820	606.165	569.269	532.374	495.478
62.5	945.906	877.936	809.966	741.997	674.027	606.057	538.088	504.740	471.393	438.045
65.0	853.307	788.545	723.783	659.021	594.260	529.498	464.736	435.748	406.761	377.773
67.5	765.582	703.695	641.809	579.923	518.036	456.150	394.264	369.663	345.063	320.462
70.0	680.312	621.570	562.827	504.085	445.343	386.601	327.859	307.701	287.543	267.384
72.5	608.704	552.078	495.452	438.826	382.200	325.574	268.949	252.665	236.381	220.097
75.0	549.079	493.252	437.425	381.598	325.770	269.943	214.116	201.702	189.288	176.875
77.5	509.720	453.981	398.242	342.503	286.764	231.025	175.286	165.233	155.180	145.127
80.0	516.143	454.226	392.310	330.393	268.476	206.560	144.643	136.628	128.614	120.599
82.5	530.980	462.168	393.355	324.543	255.730	186.918	118.105	112.187	106.268	100.350
85.0	540.911	467.945	394.978	322.012	249.046	176.079	103.113	98.879	94.644	90.410
87.5	535.935	463.481	391.027	318.574	246.120	173.667	101.213	97.799	94.385	90.971
90.0	512.051	443.960	375.869	307.778	239.687	171.596	103.505	100.299	97.094	93.888
92.5	480.047	418.904	357.762	296.619	235.477	174.334	113.192	109.540	105.888	102.236
95.0	444.177	390.291	336.405	282.519	228.632	174.746	120.860	116.397	111.933	107.470
97.5	401.247	354.567	307.887	261.208	214.528	167.849	121.169	116.044	110.918	105.793
100.0	356.459	316.844	277.229	237.614	197.999	158.384	118.769	113.312	107.856	102.399
102.5	310.327	277.665	245.003	212.341	179.679	147.017	114.356	108.689	103.023	97.357
105.0	271.137	244.158	217.179	190.200	163.220	136.241	109.262	103.455	97.648	91.841
107.5	243.411	220.101	196.791	173.481	150.171	126.861	103.551	97.687	91.824	85.960
110.0	219.322	199.001	178.680	158.359	138.039	117.718	97.397	91.587	85.776	79.966
112.5	201.305	183.021	164.738	146.454	128.170	109.887	91.603	85.877	80.151	74.424

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CANDELA TABULATION - (Cont.)

115.0	182.901	166.607	150.314	134.020	117.727	101.433	85.140	79.596	74.053	68.509
117.5	163.622	149.163	134.704	120.245	105.786	91.327	76.869	71.763	66.658	61.553
120.0	145.810	132.823	119.836	106.849	93.861	80.874	67.887	63.409	58.931	54.452
122.5	129.842	118.079	106.317	94.554	82.792	71.029	59.267	55.430	51.593	47.756
125.0	117.509	106.384	95.259	84.134	73.008	61.883	50.758	47.547	44.336	41.124
127.5	105.307	94.868	84.429	73.990	63.551	53.112	42.673	40.088	37.502	34.917
130.0	94.877	85.031	75.186	65.340	55.494	45.649	35.803	33.757	31.710	29.664
132.5	83.305	74.539	65.773	57.007	48.241	39.475	30.710	29.053	27.396	25.740
135.0	73.772	65.952	58.132	50.312	42.492	34.672	26.852	25.475	24.098	22.722
137.5	64.684	57.881	51.078	44.275	37.471	30.668	23.865	22.669	21.473	20.277
140.0	54.710	49.092	43.474	37.856	32.238	26.620	21.002	19.971	18.940	17.908
142.5	45.308	40.820	36.332	31.844	27.356	22.868	18.380	17.511	16.642	15.772
145.0	35.507	32.254	29.000	25.747	22.493	19.240	15.986	15.268	14.551	13.833
147.5	25.280	23.353	21.426	19.500	17.573	15.646	13.720	13.147	12.575	12.003
150.0	17.884	16.855	15.827	14.798	13.769	12.740	11.711	11.270	10.830	10.389
152.5	13.035	12.511	11.987	11.464	10.940	10.417	9.893	9.571	9.249	8.927
155.0	9.092	8.957	8.821	8.686	8.551	8.416	8.281	8.061	7.842	7.622
157.5	7.298	7.311	7.325	7.339	7.353	7.366	7.380	7.251	7.122	6.994
160.0	5.596	5.810	6.024	6.238	6.452	6.666	6.880	6.807	6.734	6.660
162.5	4.517	4.839	5.162	5.485	5.807	6.130	6.453	6.430	6.407	6.384
165.0	4.305	4.693	5.081	5.469	5.857	6.245	6.633	6.617	6.601	6.585
167.5	4.983	5.341	5.700	6.058	6.416	6.774	7.133	7.129	7.126	7.122
170.0	5.387	5.696	6.005	6.314	6.623	6.932	7.241	7.252	7.264	7.275
172.5	5.461	5.746	6.032	6.317	6.603	6.888	7.174	7.174	7.175	7.175
175.0	5.545	5.814	6.082	6.351	6.620	6.889	7.158	7.145	7.133	7.120
177.5	5.545	5.814	6.082	6.351	6.620	6.889	7.158	7.145	7.133	7.120
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Vert. Angles Horizontal Angles

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	2058.124	2050.649	2043.173	2035.698	2028.222	2020.747	2013.816	2006.885	1999.954	1993.023
5.0	1990.861	1978.986	1967.111	1955.237	1943.362	1931.487	1925.938	1920.388	1914.839	1909.289
7.5	1978.596	1958.893	1939.191	1919.489	1899.787	1880.085	1864.115	1848.145	1832.174	1816.204
10.0	1946.682	1919.175	1891.667	1864.159	1836.651	1809.143	1787.452	1765.762	1744.071	1722.381
12.5	1880.325	1853.095	1825.864	1798.633	1771.402	1744.171	1715.607	1687.043	1658.479	1629.914
15.0	1814.352	1777.660	1740.968	1704.276	1667.584	1630.892	1608.143	1585.393	1562.644	1539.895
17.5	1722.830	1683.797	1644.764	1605.731	1566.698	1527.666	1499.484	1471.303	1443.121	1414.940
20.0	1643.850	1602.205	1560.560	1518.914	1477.269	1435.624	1404.421	1373.218	1342.014	1310.811
22.5	1577.947	1529.506	1481.064	1432.623	1384.181	1335.740	1301.986	1268.232	1234.477	1200.723
25.0	1504.972	1456.979	1408.985	1360.992	1312.998	1265.005	1225.488	1185.972	1146.455	1106.939
27.5	1421.971	1368.283	1314.596	1260.908	1207.221	1153.533	1117.066	1080.599	1044.132	1007.665
30.0	1343.536	1285.374	1227.211	1169.048	1110.885	1052.722	1019.565	986.408	953.251	920.094
32.5	1268.104	1208.217	1148.330	1088.443	1028.556	968.669	938.076	907.484	876.892	846.300
35.0	1190.961	1129.413	1067.866	1006.319	944.772	883.225	855.653	828.081	800.509	772.937
37.5	1118.341	1056.020	993.698	931.376	869.054	806.732	780.714	754.696	728.679	702.661
40.0	1037.566	976.691	915.817	854.943	794.069	733.195	709.354	685.513	661.672	637.831
42.5	959.472	898.761	838.051	777.340	716.630	655.920	635.622	615.324	595.026	574.728
45.0	883.661	824.265	764.868	705.471	646.075	586.678	568.953	551.228	533.502	515.777
47.5	812.058	754.835	697.612	640.390	583.167	525.944	509.835	493.726	477.616	461.507
50.0	737.185	682.392	627.600	572.807	518.015	463.222	449.270	435.318	421.366	407.414
52.5	665.270	614.145	563.020	511.896	460.771	409.647	397.339	385.032	372.725	360.417
55.0	594.169	547.163	500.157	453.152	406.146	359.140	348.596	338.052	327.509	316.965
57.5	525.559	483.491	441.424	399.356	357.289	315.221	305.868	296.514	287.161	277.807
60.0	458.582	421.687	384.791	347.895	311.000	274.104	266.268	258.432	250.596	242.760

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CANDELA TABULATION - (Cont.)

62.5	404.698	371.351	338.003	304.656	271.308	237.961	231.291	224.620	217.950	211.279
65.0	348.785	319.798	290.810	261.822	232.835	203.847	198.403	192.959	187.515	182.071
67.5	295.862	271.262	246.661	222.061	197.460	172.860	168.478	164.096	159.714	155.332
70.0	247.226	227.068	206.910	186.751	166.593	146.435	142.734	139.033	135.332	131.631
72.5	203.814	187.530	171.246	154.962	138.679	122.395	118.967	115.540	112.112	108.685
75.0	164.461	152.047	139.633	127.220	114.806	102.392	98.326	94.260	90.193	86.127
77.5	135.074	125.021	114.969	104.916	94.863	84.810	80.231	75.652	71.073	66.494
80.0	112.585	104.570	96.556	88.541	80.527	72.512	67.335	62.157	56.980	51.802
82.5	94.431	88.513	82.594	76.676	70.757	64.839	59.617	54.395	49.174	43.952
85.0	86.175	81.941	77.706	73.472	69.237	65.003	59.725	54.447	49.169	43.891
87.5	87.557	84.144	80.730	77.316	73.902	70.488	64.730	58.971	53.213	47.455
90.0	90.682	87.477	84.271	81.065	77.860	74.654	68.419	62.184	55.949	49.714
92.5	98.584	94.932	91.280	87.628	83.976	80.325	73.687	67.050	60.413	53.776
95.0	103.007	98.543	94.080	89.617	85.153	80.690	74.059	67.428	60.797	54.166
97.5	100.667	95.542	90.417	85.291	80.166	75.041	68.885	62.729	56.573	50.417
100.0	96.942	91.486	86.029	80.572	75.116	69.659	63.918	58.178	52.437	46.697
102.5	91.691	86.025	80.359	74.693	69.027	63.361	58.169	52.978	47.787	42.596
105.0	86.034	80.228	74.421	68.614	62.807	57.000	52.505	48.009	43.514	39.019
107.5	80.097	74.233	68.370	62.506	56.643	50.779	46.963	43.148	39.332	35.517
110.0	74.156	68.345	62.535	56.725	50.914	45.104	41.793	38.482	35.171	31.860
112.5	68.698	62.972	57.246	51.519	45.793	40.067	37.172	34.276	31.381	28.485
115.0	62.965	57.422	51.878	46.334	40.791	35.247	32.770	30.294	27.817	25.340
117.5	56.447	51.342	46.237	41.131	36.026	30.921	28.809	26.698	24.586	22.475
120.0	49.974	45.496	41.018	36.539	32.061	27.583	25.708	23.834	21.959	20.085
122.5	43.919	40.083	36.246	32.409	28.572	24.736	23.060	21.385	19.709	18.034
125.0	37.913	34.702	31.491	28.279	25.068	21.857	20.437	19.016	17.596	16.176
127.5	32.332	29.746	27.161	24.576	21.990	19.405	18.202	16.998	15.795	14.592
130.0	27.618	25.571	23.525	21.479	19.432	17.386	16.339	15.292	14.245	13.198
132.5	24.083	22.427	20.770	19.114	17.457	15.801	14.881	13.961	13.042	12.122
135.0	21.345	19.968	18.591	17.215	15.838	14.461	13.596	12.731	11.865	11.000
137.5	19.081	17.885	16.689	15.493	14.297	13.102	12.369	11.637	10.904	10.172
140.0	16.877	15.846	14.815	13.783	12.752	11.721	11.120	10.519	9.919	9.318
142.5	14.903	14.034	13.165	12.295	11.426	10.557	10.068	9.580	9.091	8.602
145.0	13.115	12.398	11.680	10.962	10.245	9.527	9.153	8.779	8.404	8.030
147.5	11.431	10.858	10.286	9.714	9.142	8.570	8.312	8.055	7.797	7.540
150.0	9.949	9.508	9.068	8.627	8.187	7.746	7.582	7.419	7.255	7.091
152.5	8.604	8.282	7.960	7.638	7.316	6.994	6.927	6.860	6.793	6.726
155.0	7.402	7.183	6.963	6.743	6.524	6.304	6.303	6.302	6.300	6.299
157.5	6.865	6.736	6.607	6.479	6.350	6.221	6.211	6.202	6.192	6.182
160.0	6.587	6.514	6.441	6.367	6.294	6.221	6.208	6.196	6.183	6.171
162.5	6.361	6.338	6.316	6.293	6.270	6.247	6.242	6.237	6.232	6.226
165.0	6.569	6.553	6.537	6.521	6.505	6.489	6.510	6.530	6.551	6.571
167.5	7.119	7.116	7.112	7.109	7.105	7.102	7.141	7.181	7.220	7.260
170.0	7.287	7.298	7.310	7.321	7.333	7.344	7.355	7.367	7.378	7.390
172.5	7.176	7.177	7.177	7.178	7.178	7.179	7.204	7.228	7.253	7.277
175.0	7.108	7.095	7.083	7.070	7.058	7.045	7.083	7.121	7.158	7.196
177.5	7.108	7.095	7.083	7.070	7.058	7.045	7.083	7.121	7.158	7.196
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Vert. Angles **Horizontal Angles**

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	1986.093	1979.162	1972.231	1965.300	1958.370	1954.360	1950.350	1946.341	1942.331	1938.322
5.0	1903.740	1898.190	1892.641	1887.091	1881.542	1874.730	1867.919	1861.107	1854.295	1847.484
7.5	1800.234	1784.264	1768.293	1752.323	1736.353	1728.111	1719.869	1711.626	1703.384	1695.142

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CANDELA TABULATION - (Cont.)

10.0	1700.690	1679.000	1657.309	1635.619	1613.928	1602.199	1590.469	1578.740	1567.010	1555.281
12.5	1601.350	1572.786	1544.222	1515.658	1487.094	1475.294	1463.495	1451.696	1439.897	1428.097
15.0	1517.145	1494.396	1471.647	1448.897	1426.148	1404.150	1382.151	1360.153	1338.154	1316.156
17.5	1386.758	1358.577	1330.395	1302.214	1274.033	1253.527	1233.021	1212.516	1192.010	1171.504
20.0	1279.608	1248.405	1217.201	1185.998	1154.795	1132.899	1111.004	1089.108	1067.213	1045.317
22.5	1166.969	1133.215	1099.460	1065.706	1031.952	1012.048	992.144	972.239	952.335	932.431
25.0	1067.422	1027.906	988.389	948.873	909.356	894.111	878.866	863.621	848.376	833.130
27.5	971.197	934.730	898.263	861.796	825.329	813.577	801.824	790.072	778.320	766.567
30.0	886.938	853.781	820.624	787.467	754.310	744.486	734.662	724.838	715.014	705.191
32.5	815.708	785.116	754.523	723.931	693.339	685.053	676.766	668.480	660.194	651.907
35.0	745.365	717.793	690.221	662.649	635.077	627.471	619.865	612.259	604.653	597.048
37.5	676.643	650.625	624.607	598.589	572.572	565.296	558.020	550.744	543.468	536.193
40.0	613.990	590.149	566.308	542.467	518.626	510.463	502.299	494.136	485.973	477.809
42.5	554.430	534.132	513.834	493.536	473.239	464.001	454.763	445.525	436.287	427.049
45.0	498.052	480.327	462.601	444.876	427.151	417.848	408.545	399.242	389.939	380.635
47.5	445.398	429.289	413.179	397.070	380.961	372.914	364.868	356.821	348.775	340.728
50.0	393.463	379.511	365.559	351.607	337.655	330.512	323.370	316.227	309.085	301.942
52.5	348.110	335.803	323.495	311.188	298.881	293.217	287.553	281.889	276.225	270.561
55.0	306.421	295.877	285.334	274.790	264.246	260.371	256.496	252.621	248.746	244.871
57.5	268.454	259.100	249.747	240.393	231.039	228.408	225.777	223.146	220.515	217.884
60.0	234.923	227.087	219.251	211.415	203.579	200.780	197.981	195.181	192.382	189.583
62.5	204.609	197.939	191.268	184.598	177.928	174.765	171.602	168.440	165.277	162.114
65.0	176.626	171.182	165.738	160.294	154.850	151.674	148.498	145.323	142.147	138.971
67.5	150.949	146.567	142.185	137.803	133.421	130.492	127.564	124.635	121.706	118.778
70.0	127.929	124.228	120.527	116.826	113.125	110.011	106.897	103.783	100.669	97.555
72.5	105.257	101.829	98.402	94.974	91.547	87.980	84.413	80.847	77.280	73.713
75.0	82.061	77.995	73.928	69.862	65.796	62.848	59.900	56.952	54.004	51.056
77.5	61.916	57.337	52.758	48.179	43.600	40.806	38.013	35.219	32.426	29.632
80.0	46.625	41.447	36.270	31.092	25.915	24.170	22.424	20.679	18.934	17.188
82.5	38.731	33.509	28.288	23.066	17.845	17.019	16.194	15.369	14.544	13.719
85.0	38.612	33.334	28.056	22.778	17.500	16.694	15.888	15.083	14.277	13.471
87.5	41.697	35.938	30.180	24.422	18.664	17.490	16.316	15.143	13.969	12.795
90.0	43.480	37.245	31.010	24.775	18.540	17.067	15.594	14.121	12.648	11.176
92.5	47.138	40.501	33.864	27.227	20.590	19.097	17.605	16.113	14.620	13.128
95.0	47.536	40.905	34.274	27.643	21.012	19.654	18.295	16.937	15.578	14.220
97.5	44.261	38.105	31.949	25.793	19.637	18.501	17.365	16.230	15.094	13.958
100.0	40.956	35.216	29.475	23.735	17.994	17.056	16.117	15.179	14.240	13.302
102.5	37.404	32.213	27.022	21.831	16.640	15.865	15.091	14.317	13.543	12.768
105.0	34.523	30.028	25.533	21.037	16.542	15.856	15.171	14.485	13.800	13.114
107.5	31.701	27.885	24.070	20.254	16.439	15.892	15.345	14.798	14.251	13.704
110.0	28.550	25.239	21.928	18.617	15.306	15.040	14.775	14.509	14.244	13.978
112.5	25.590	22.694	19.799	16.903	14.008	14.002	13.995	13.989	13.983	13.977
115.0	22.864	20.387	17.910	15.434	12.957	13.060	13.163	13.266	13.369	13.472
117.5	20.363	18.252	16.140	14.029	11.917	12.008	12.099	12.190	12.281	12.372
120.0	18.210	16.336	14.461	12.587	10.712	10.825	10.939	11.052	11.165	11.279
122.5	16.358	14.683	13.007	11.332	9.657	9.797	9.937	10.077	10.217	10.357
125.0	14.755	13.335	11.915	10.494	9.074	9.187	9.301	9.414	9.527	9.641
127.5	13.388	12.185	10.982	9.778	8.575	8.675	8.775	8.875	8.975	9.076
130.0	12.150	11.103	10.056	9.009	7.962	8.098	8.234	8.371	8.507	8.643
132.5	11.202	10.283	9.363	8.444	7.524	7.668	7.812	7.957	8.101	8.245
135.0	10.135	9.270	8.404	7.539	6.674	6.883	7.093	7.302	7.512	7.721
137.5	9.440	8.707	7.975	7.242	6.510	6.708	6.906	7.104	7.302	7.500
140.0	8.717	8.116	7.516	6.915	6.314	6.472	6.630	6.788	6.946	7.103
142.5	8.114	7.625	7.136	6.648	6.159	6.288	6.417	6.546	6.674	6.803
145.0	7.656	7.282	6.907	6.533	6.159	6.264	6.370	6.475	6.580	6.686
147.5	7.282	7.025	6.767	6.510	6.252	6.321	6.391	6.460	6.529	6.598

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CANDELA TABULATION - (Cont.)

150.0	6.928	6.764	6.600	6.437	6.273	6.335	6.397	6.458	6.520	6.582
152.5	6.659	6.592	6.525	6.458	6.392	6.425	6.458	6.491	6.524	6.557
155.0	6.298	6.297	6.295	6.294	6.293	6.363	6.433	6.503	6.573	6.642
157.5	6.172	6.163	6.153	6.143	6.134	6.221	6.309	6.396	6.484	6.572
160.0	6.158	6.146	6.133	6.121	6.108	6.198	6.289	6.379	6.470	6.560
162.5	6.221	6.216	6.211	6.206	6.201	6.281	6.361	6.441	6.521	6.601
165.0	6.592	6.612	6.633	6.653	6.674	6.705	6.736	6.767	6.798	6.828
167.5	7.299	7.339	7.378	7.418	7.457	7.419	7.380	7.342	7.304	7.265
170.0	7.401	7.413	7.424	7.436	7.447	7.431	7.415	7.399	7.383	7.367
172.5	7.302	7.327	7.351	7.376	7.401	7.391	7.382	7.373	7.364	7.355
175.0	7.234	7.272	7.309	7.347	7.385	7.370	7.355	7.340	7.325	7.311
177.5	7.234	7.272	7.309	7.347	7.385	7.346	7.306	7.267	7.227	7.188
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

**Vert.
Angles**

Horizontal Angles

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	1934.312	1930.303	1926.293	1922.284	1922.123	1921.963	1921.803	1921.643	1921.483	1921.323
5.0	1840.672	1833.860	1827.049	1820.237	1818.447	1816.657	1814.867	1813.077	1811.287	1809.497
7.5	1686.900	1678.657	1670.415	1662.173	1656.434	1650.695	1644.956	1639.217	1633.479	1627.740
10.0	1543.551	1531.822	1520.092	1508.363	1505.362	1502.361	1499.361	1496.360	1493.359	1490.358
12.5	1416.298	1404.499	1392.700	1380.901	1375.816	1370.732	1365.648	1360.564	1355.479	1350.395
15.0	1294.157	1272.159	1250.160	1228.162	1222.355	1216.548	1210.741	1204.934	1199.127	1193.320
17.5	1150.999	1130.493	1109.988	1089.482	1082.292	1075.101	1067.911	1060.720	1053.530	1046.339
20.0	1023.422	1001.526	979.631	957.735	951.125	944.514	937.904	931.294	924.683	918.073
22.5	912.527	892.622	872.718	852.814	848.418	844.021	839.625	835.228	830.832	826.436
25.0	817.885	802.640	787.395	772.150	770.019	767.888	765.757	763.626	761.495	759.364
27.5	754.815	743.063	731.310	719.558	716.752	713.947	711.141	708.336	705.530	702.724
30.0	695.367	685.543	675.719	665.895	663.623	661.351	659.080	656.808	654.536	652.264
32.5	643.621	635.335	627.048	618.762	616.089	613.416	610.744	608.071	605.398	602.725
35.0	589.442	581.836	574.230	566.624	562.268	557.912	553.557	549.201	544.845	540.489
37.5	528.917	521.641	514.365	507.090	502.919	498.748	494.577	490.406	486.235	482.064
40.0	469.646	461.483	453.319	445.156	441.578	438.001	434.423	430.846	427.268	423.691
42.5	417.811	408.573	399.335	390.097	386.591	383.085	379.579	376.073	372.567	369.061
45.0	371.332	362.029	352.726	343.423	340.024	336.625	333.226	329.827	326.428	323.029
47.5	332.681	324.635	316.588	308.542	306.444	304.346	302.248	300.150	298.053	295.955
50.0	294.800	287.657	280.515	273.372	273.666	273.960	274.254	274.548	274.843	275.137
52.5	264.897	259.233	253.569	247.906	248.304	248.703	249.102	249.501	249.900	250.299
55.0	240.996	237.121	233.246	229.371	227.856	226.340	224.825	223.310	221.794	220.279
57.5	215.253	212.622	209.991	207.359	204.672	201.985	199.298	196.611	193.924	191.236
60.0	186.784	183.984	181.185	178.386	176.756	175.126	173.497	171.867	170.237	168.607
62.5	158.952	155.789	152.626	149.464	148.840	148.217	147.594	146.971	146.348	145.725
65.0	135.795	132.620	129.444	126.268	125.289	124.311	123.332	122.354	121.375	120.397
67.5	115.849	112.920	109.992	107.063	105.332	103.601	101.870	100.139	98.408	96.677
70.0	94.441	91.327	88.213	85.099	83.642	82.185	80.728	79.271	77.815	76.358
72.5	70.147	66.580	63.013	59.447	58.938	58.430	57.922	57.414	56.906	56.398
75.0	48.108	45.160	42.212	39.264	38.997	38.731	38.464	38.197	37.931	37.664
77.5	26.838	24.045	21.251	18.458	17.863	17.269	16.674	16.080	15.485	14.891
80.0	15.443	13.698	11.952	10.207	10.115	10.024	9.932	9.841	9.749	9.658
82.5	12.894	12.069	11.244	10.419	10.340	10.261	10.182	10.103	10.024	9.945
85.0	12.665	11.860	11.054	10.248	10.213	10.177	10.142	10.106	10.071	10.035
87.5	11.622	10.448	9.274	8.101	8.109	8.118	8.127	8.135	8.144	8.153
90.0	9.703	8.230	6.757	5.284	5.124	4.964	4.803	4.643	4.483	4.323
92.5	11.636	10.143	8.651	7.159	6.923	6.688	6.453	6.218	5.982	5.747
95.0	12.861	11.503	10.144	8.786	8.602	8.418	8.233	8.049	7.865	7.681

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

97.5	12.822	11.686	10.550	9.415	9.349	9.284	9.219	9.153	9.088	9.023
100.0	12.363	11.425	10.486	9.548	9.549	9.550	9.551	9.552	9.554	9.555
102.5	11.994	11.220	10.446	9.672	9.759	9.846	9.933	10.020	10.107	10.194
105.0	12.429	11.743	11.058	10.372	10.510	10.649	10.787	10.926	11.064	11.203
107.5	13.157	12.610	12.063	11.516	11.697	11.879	12.061	12.243	12.425	12.607
110.0	13.713	13.447	13.182	12.916	13.099	13.282	13.465	13.648	13.832	14.015
112.5	13.970	13.964	13.958	13.952	14.142	14.333	14.523	14.714	14.904	15.095
115.0	13.575	13.678	13.781	13.884	14.156	14.429	14.701	14.974	15.246	15.519
117.5	12.463	12.554	12.645	12.736	12.981	13.227	13.472	13.718	13.963	14.209
120.0	11.392	11.505	11.619	11.732	11.885	12.039	12.192	12.345	12.499	12.652
122.5	10.498	10.638	10.778	10.918	11.006	11.094	11.182	11.270	11.359	11.447
125.0	9.754	9.867	9.981	10.094	10.240	10.387	10.533	10.680	10.826	10.973
127.5	9.176	9.276	9.376	9.476	9.646	9.816	9.986	10.156	10.326	10.496
130.0	8.779	8.916	9.052	9.188	9.282	9.376	9.469	9.563	9.657	9.751
132.5	8.389	8.533	8.677	8.822	8.887	8.953	9.019	9.085	9.151	9.217
135.0	7.931	8.140	8.350	8.559	8.516	8.472	8.429	8.385	8.342	8.298
137.5	7.698	7.896	8.094	8.292	8.188	8.084	7.981	7.877	7.774	7.670
140.0	7.261	7.419	7.577	7.735	7.598	7.460	7.323	7.186	7.048	6.911
142.5	6.932	7.061	7.190	7.319	7.182	7.045	6.908	6.771	6.634	6.498
145.0	6.791	6.896	7.002	7.107	6.990	6.873	6.757	6.640	6.523	6.406
147.5	6.668	6.737	6.806	6.876	6.791	6.707	6.623	6.539	6.455	6.371
150.0	6.644	6.705	6.767	6.829	6.768	6.708	6.647	6.586	6.526	6.465
152.5	6.591	6.624	6.657	6.690	6.685	6.681	6.676	6.672	6.667	6.663
155.0	6.712	6.782	6.852	6.922	6.927	6.931	6.936	6.940	6.945	6.949
157.5	6.659	6.747	6.834	6.922	6.990	7.057	7.125	7.192	7.260	7.327
160.0	6.651	6.741	6.832	6.922	6.979	7.036	7.094	7.151	7.208	7.265
162.5	6.682	6.762	6.842	6.922	6.964	7.005	7.047	7.089	7.131	7.172
165.0	6.859	6.890	6.921	6.952	6.978	7.005	7.031	7.057	7.084	7.110
167.5	7.227	7.189	7.150	7.112	7.100	7.088	7.076	7.064	7.052	7.040
170.0	7.351	7.335	7.319	7.303	7.256	7.209	7.162	7.115	7.068	7.021
172.5	7.346	7.337	7.328	7.319	7.276	7.234	7.191	7.149	7.107	7.064
175.0	7.296	7.281	7.266	7.251	7.219	7.187	7.155	7.123	7.091	7.059
177.5	7.148	7.109	7.069	7.030	7.018	7.006	6.994	6.982	6.970	6.958
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	1921.162	1921.002	1920.842	1920.873	1920.905	1920.936	1920.968	1920.999	1921.031	1921.062
5.0	1807.707	1805.917	1804.127	1806.424	1808.721	1811.018	1813.315	1815.611	1817.908	1820.205
7.5	1622.001	1616.262	1610.523	1615.655	1620.788	1625.920	1631.052	1636.184	1641.317	1646.449
10.0	1487.358	1484.357	1481.356	1484.179	1487.003	1489.826	1492.649	1495.473	1498.296	1501.119
12.5	1345.311	1340.227	1335.143	1340.583	1346.024	1351.465	1356.905	1362.346	1367.787	1373.227
15.0	1187.513	1181.706	1175.899	1184.454	1193.009	1201.563	1210.118	1218.673	1227.228	1235.782
17.5	1039.149	1031.958	1024.768	1035.880	1046.992	1058.104	1069.216	1080.328	1091.440	1102.552
20.0	911.463	904.852	898.242	905.874	913.507	921.139	928.771	936.404	944.036	951.668
22.5	822.039	817.643	813.247	819.005	824.763	830.522	836.280	842.038	847.797	853.555
25.0	757.233	755.102	752.971	758.280	763.589	768.898	774.207	779.517	784.826	790.135
27.5	699.919	697.113	694.308	699.372	704.437	709.502	714.566	719.631	724.696	729.761
30.0	649.993	647.721	645.449	648.635	651.821	655.008	658.194	661.380	664.566	667.753
32.5	600.052	597.379	594.707	598.281	601.855	605.429	609.003	612.577	616.151	619.725
35.0	536.134	531.778	527.422	532.308	537.193	542.079	546.964	551.850	556.735	561.621
37.5	477.893	473.722	469.551	474.203	478.855	483.508	488.160	492.812	497.464	502.117
40.0	420.113	416.536	412.958	417.139	421.319	425.500	429.681	433.861	438.042	442.223
42.5	365.555	362.049	358.543	362.629	366.715	370.802	374.888	378.974	383.060	387.147

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

45.0	319.630	316.231	312.832	316.829	320.827	324.824	328.822	332.819	336.817	340.814
47.5	293.857	291.759	289.662	292.100	294.539	296.978	299.417	301.856	304.295	306.733
50.0	275.431	275.725	276.019	275.924	275.829	275.734	275.639	275.544	275.449	275.354
52.5	250.697	251.096	251.495	251.144	250.793	250.443	250.092	249.741	249.390	249.040
55.0	218.764	217.248	215.733	217.494	219.256	221.017	222.778	224.540	226.301	228.062
57.5	188.549	185.862	183.175	186.363	189.552	192.740	195.929	199.117	202.306	205.494
60.0	166.978	165.348	163.718	166.179	168.639	171.100	173.560	176.021	178.481	180.942
62.5	145.101	144.478	143.855	145.175	146.494	147.814	149.133	150.453	151.772	153.092
65.0	119.418	118.440	117.461	118.872	120.283	121.694	123.105	124.517	125.928	127.339
67.5	94.946	93.215	91.485	93.367	95.249	97.131	99.013	100.895	102.777	104.659
70.0	74.901	73.444	71.987	73.637	75.287	76.938	78.588	80.238	81.888	83.539
72.5	55.889	55.381	54.873	56.013	57.153	58.293	59.433	60.572	61.712	62.852
75.0	37.397	37.131	36.864	37.484	38.104	38.725	39.345	39.965	40.585	41.206
77.5	14.296	13.702	13.107	13.982	14.857	15.732	16.607	17.481	18.356	19.231
80.0	9.566	9.475	9.383	9.351	9.319	9.287	9.255	9.223	9.191	9.159
82.5	9.866	9.787	9.708	9.696	9.684	9.672	9.660	9.648	9.636	9.624
85.0	10.000	9.964	9.929	9.887	9.844	9.802	9.760	9.717	9.675	9.633
87.5	8.161	8.170	8.179	8.092	8.006	7.919	7.833	7.746	7.660	7.573
90.0	4.162	4.002	3.842	3.975	4.108	4.240	4.373	4.506	4.639	4.771
92.5	5.512	5.277	5.042	5.235	5.428	5.622	5.815	6.009	6.202	6.396
95.0	7.496	7.312	7.128	7.255	7.382	7.509	7.636	7.763	7.890	8.017
97.5	8.958	8.892	8.827	8.852	8.876	8.901	8.925	8.950	8.975	8.999
100.0	9.556	9.557	9.558	9.518	9.478	9.438	9.398	9.358	9.318	9.278
102.5	10.281	10.368	10.455	10.315	10.175	10.036	9.896	9.756	9.617	9.477
105.0	11.341	11.480	11.618	11.367	11.117	10.866	10.616	10.365	10.115	9.864
107.5	12.789	12.971	13.153	12.790	12.427	12.065	11.702	11.339	10.976	10.614
110.0	14.198	14.381	14.564	14.134	13.703	13.273	12.843	12.412	11.982	11.552
112.5	15.285	15.476	15.666	15.210	14.754	14.298	13.842	13.386	12.930	12.474
115.0	15.791	16.064	16.336	15.835	15.333	14.832	14.331	13.829	13.328	12.827
117.5	14.454	14.700	14.945	14.519	14.094	13.668	13.242	12.817	12.391	11.965
120.0	12.805	12.959	13.112	12.850	12.588	12.326	12.064	11.801	11.539	11.277
122.5	11.535	11.623	11.711	11.535	11.359	11.182	11.006	10.830	10.654	10.477
125.0	11.119	11.266	11.412	11.168	10.924	10.681	10.437	10.193	9.949	9.706
127.5	10.666	10.836	11.006	10.719	10.432	10.146	9.859	9.572	9.286	8.999
130.0	9.844	9.938	10.032	9.755	9.478	9.201	8.924	8.648	8.371	8.094
132.5	9.283	9.349	9.415	9.143	8.872	8.601	8.329	8.058	7.787	7.516
135.0	8.255	8.211	8.168	8.008	7.848	7.687	7.527	7.367	7.207	7.046
137.5	7.567	7.463	7.360	7.263	7.167	7.071	6.975	6.879	6.783	6.687
140.0	6.774	6.636	6.499	6.444	6.389	6.334	6.279	6.225	6.170	6.115
142.5	6.361	6.224	6.087	6.012	5.936	5.861	5.785	5.710	5.634	5.559
145.0	6.290	6.173	6.056	5.960	5.864	5.768	5.672	5.575	5.479	5.383
147.5	6.286	6.202	6.118	6.021	5.924	5.826	5.729	5.632	5.535	5.437
150.0	6.404	6.344	6.283	6.183	6.084	5.984	5.885	5.785	5.686	5.586
152.5	6.658	6.654	6.649	6.575	6.500	6.426	6.351	6.277	6.202	6.128
155.0	6.954	6.958	6.963	6.918	6.874	6.829	6.784	6.740	6.695	6.650
157.5	7.395	7.462	7.530	7.468	7.406	7.344	7.282	7.220	7.159	7.097
160.0	7.323	7.380	7.437	7.385	7.334	7.282	7.231	7.179	7.128	7.076
162.5	7.214	7.256	7.298	7.261	7.225	7.189	7.153	7.117	7.081	7.045
165.0	7.136	7.163	7.189	7.165	7.141	7.117	7.093	7.069	7.045	7.021
167.5	7.028	7.016	7.004	7.002	7.001	6.999	6.997	6.995	6.994	6.992
170.0	6.974	6.927	6.880	6.859	6.839	6.818	6.798	6.777	6.757	6.736
172.5	7.022	6.979	6.937	6.884	6.832	6.779	6.727	6.674	6.621	6.569
175.0	7.027	6.995	6.963	6.900	6.837	6.774	6.711	6.648	6.585	6.522
177.5	6.946	6.934	6.922	6.825	6.728	6.632	6.535	6.438	6.342	6.245
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	1921.094	1921.125	1925.648	1930.172	1934.695	1939.219	1943.742	1948.265	1952.789	1957.312
5.0	1822.502	1824.799	1831.391	1837.983	1844.575	1851.167	1857.759	1864.351	1870.943	1877.535
7.5	1651.581	1656.714	1666.642	1676.570	1686.498	1696.426	1706.354	1716.282	1726.210	1736.138
10.0	1503.943	1506.766	1519.353	1531.939	1544.526	1557.113	1569.699	1582.286	1594.873	1607.459
12.5	1378.668	1384.109	1397.535	1410.962	1424.388	1437.815	1451.242	1464.668	1478.095	1491.521
15.0	1244.337	1252.892	1274.006	1295.120	1316.234	1337.348	1358.461	1379.575	1400.689	1421.803
17.5	1113.664	1124.776	1143.389	1162.003	1180.617	1199.231	1217.845	1236.459	1255.072	1273.686
20.0	959.301	966.933	990.779	1014.624	1038.470	1062.316	1086.161	1110.007	1133.853	1157.698
22.5	859.313	865.072	887.461	909.851	932.241	954.631	977.021	999.411	1021.801	1044.191
25.0	795.444	800.753	816.162	831.571	846.979	862.388	877.797	893.206	908.614	924.023
27.5	734.825	739.890	752.782	765.673	778.565	791.456	804.348	817.240	830.131	843.023
30.0	670.939	674.125	685.488	696.851	708.214	719.577	730.941	742.304	753.667	765.030
32.5	623.299	626.873	636.273	645.673	655.073	664.473	673.873	683.273	692.673	702.073
35.0	566.506	571.392	580.964	590.536	600.109	609.681	619.253	628.825	638.398	647.970
37.5	506.769	511.421	521.166	530.911	540.656	550.401	560.146	569.891	579.636	589.381
40.0	446.403	450.584	460.803	471.021	481.240	491.459	501.677	511.896	522.115	532.333
42.5	391.233	395.319	406.655	417.990	429.326	440.662	451.998	463.333	474.669	486.005
45.0	344.812	348.809	359.325	369.842	380.358	390.874	401.391	411.907	422.423	432.940
47.5	309.172	311.611	321.563	331.514	341.466	351.417	361.369	371.320	381.272	391.223
50.0	275.259	275.164	284.236	293.308	302.380	311.452	320.525	329.597	338.669	347.741
52.5	248.689	248.338	255.782	263.225	270.669	278.112	285.556	292.999	300.443	307.886
55.0	229.824	231.585	236.552	241.519	246.486	251.453	256.419	261.386	266.353	271.320
57.5	208.683	211.871	214.988	218.105	221.222	224.339	227.455	230.572	233.689	236.806
60.0	183.402	185.863	188.348	190.832	193.317	195.802	198.286	200.771	203.256	205.740
62.5	154.411	155.731	158.623	161.515	164.407	167.299	170.191	173.083	175.975	178.867
65.0	128.750	130.161	133.470	136.778	140.087	143.395	146.704	150.012	153.321	156.629
67.5	106.541	108.423	111.845	115.268	118.690	122.113	125.535	128.958	132.380	135.803
70.0	85.189	86.839	90.300	93.761	97.221	100.682	104.143	107.604	111.064	114.525
72.5	63.992	65.132	68.538	71.944	75.350	78.755	82.161	85.567	88.973	92.379
75.0	41.826	42.446	45.696	48.946	52.197	55.447	58.697	61.947	65.198	68.448
77.5	20.106	20.981	24.003	27.025	30.047	33.069	36.091	39.113	42.135	45.157
80.0	9.127	9.095	11.546	13.998	16.449	18.900	21.352	23.803	26.254	28.706
82.5	9.612	9.600	10.658	11.716	12.774	13.832	14.890	15.948	17.006	18.064
85.0	9.590	9.548	10.744	11.940	13.136	14.332	15.528	16.724	17.920	19.116
87.5	7.487	7.401	8.985	10.570	12.154	13.739	15.323	16.908	18.492	20.077
90.0	4.904	5.037	6.930	8.823	10.716	12.609	14.501	16.394	18.287	20.180
92.5	6.589	6.783	8.703	10.624	12.545	14.466	16.387	18.308	20.229	22.150
95.0	8.144	8.271	9.917	11.562	13.208	14.854	16.499	18.145	19.791	21.436
97.5	9.024	9.049	10.408	11.768	13.127	14.487	15.847	17.206	18.566	19.925
100.0	9.238	9.198	10.331	11.464	12.597	13.730	14.863	15.996	17.129	18.262
102.5	9.338	9.198	10.146	11.093	12.041	12.988	13.936	14.883	15.831	16.778
105.0	9.614	9.363	10.234	11.105	11.976	12.847	13.717	14.588	15.459	16.330
107.5	10.251	9.888	10.582	11.275	11.969	12.662	13.356	14.049	14.743	15.436
110.0	11.121	10.691	11.163	11.634	12.106	12.577	13.049	13.520	13.992	14.463
112.5	12.018	11.562	11.799	12.037	12.274	12.512	12.749	12.987	13.224	13.462
115.0	12.325	11.824	11.919	12.014	12.109	12.204	12.299	12.394	12.489	12.584
117.5	11.540	11.114	11.179	11.244	11.310	11.375	11.440	11.505	11.571	11.636
120.0	11.015	10.753	10.744	10.735	10.726	10.717	10.707	10.698	10.689	10.680
122.5	10.301	10.125	10.067	10.008	9.950	9.891	9.833	9.775	9.716	9.658
125.0	9.462	9.218	9.156	9.094	9.033	8.971	8.909	8.847	8.786	8.724
127.5	8.712	8.426	8.417	8.408	8.400	8.391	8.383	8.374	8.366	8.357
130.0	7.817	7.540	7.566	7.592	7.619	7.645	7.671	7.697	7.724	7.750

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CANDELA TABULATION - (Cont.)

132.5	7.244	6.973	6.964	6.955	6.946	6.936	6.927	6.918	6.909	6.900
135.0	6.886	6.726	6.657	6.589	6.520	6.451	6.383	6.314	6.245	6.177
137.5	6.591	6.495	6.382	6.270	6.158	6.046	5.933	5.821	5.709	5.597
140.0	6.060	6.005	5.879	5.753	5.627	5.501	5.376	5.250	5.124	4.998
142.5	5.483	5.408	5.290	5.172	5.054	4.936	4.818	4.700	4.582	4.464
145.0	5.287	5.191	5.088	4.985	4.882	4.779	4.676	4.573	4.470	4.367
147.5	5.340	5.243	5.135	5.027	4.918	4.810	4.702	4.594	4.485	4.377
150.0	5.487	5.387	5.348	5.309	5.270	5.231	5.193	5.154	5.115	5.076
152.5	6.053	5.979	5.928	5.876	5.825	5.773	5.722	5.670	5.619	5.567
155.0	6.606	6.561	6.472	6.383	6.293	6.204	6.115	6.026	5.936	5.847
157.5	7.035	6.973	6.869	6.766	6.662	6.559	6.455	6.352	6.248	6.145
160.0	7.025	6.973	6.910	6.847	6.784	6.721	6.659	6.596	6.533	6.470
162.5	7.009	6.973	6.922	6.870	6.819	6.767	6.716	6.664	6.613	6.561
165.0	6.997	6.973	6.926	6.879	6.832	6.785	6.739	6.692	6.645	6.598
167.5	6.990	6.989	6.904	6.820	6.736	6.652	6.568	6.484	6.400	6.316
170.0	6.716	6.695	6.624	6.553	6.482	6.411	6.340	6.269	6.198	6.127
172.5	6.516	6.464	6.418	6.373	6.328	6.282	6.237	6.192	6.147	6.101
175.0	6.459	6.396	6.361	6.325	6.290	6.254	6.219	6.183	6.148	6.112
177.5	6.148	6.052	6.032	6.013	5.993	5.974	5.954	5.935	5.915	5.896
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Vert. Angles	Horizontal Angles									
	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	1961.836	1967.505	1973.175	1978.844	1984.514	1990.184	1995.853	2001.523	2007.192	2012.862
5.0	1884.127	1887.163	1890.199	1893.236	1896.272	1899.308	1902.344	1905.381	1908.417	1911.453
7.5	1746.066	1764.928	1783.790	1802.653	1821.515	1840.377	1859.239	1878.101	1896.963	1915.826
10.0	1620.046	1645.913	1671.779	1697.646	1723.513	1749.379	1775.246	1801.113	1826.979	1852.846
12.5	1504.948	1533.189	1561.430	1589.671	1617.912	1646.153	1674.394	1702.635	1730.876	1759.117
15.0	1442.917	1465.872	1488.827	1511.783	1534.738	1557.693	1580.648	1603.604	1626.559	1649.514
17.5	1292.300	1320.206	1348.112	1376.018	1403.924	1431.831	1459.737	1487.643	1515.549	1543.455
20.0	1181.544	1213.745	1245.946	1278.148	1310.349	1342.550	1374.751	1406.953	1439.154	1471.355
22.5	1066.581	1100.391	1134.201	1168.012	1201.822	1235.632	1269.443	1303.253	1337.063	1370.874
25.0	939.432	979.374	1019.316	1059.259	1099.201	1139.143	1179.085	1219.028	1258.970	1298.912
27.5	855.915	893.399	930.883	968.367	1005.851	1043.335	1080.819	1118.303	1155.787	1193.271
30.0	776.393	811.017	845.641	880.265	914.889	949.514	984.138	1018.762	1053.386	1088.010
32.5	711.473	742.632	773.791	804.950	836.109	867.269	898.428	929.587	960.746	991.906
35.0	657.542	686.544	715.547	744.549	773.552	802.554	831.557	860.559	889.562	918.564
37.5	599.126	624.493	649.860	675.227	700.594	725.961	751.329	776.696	802.063	827.430
40.0	542.552	566.674	590.795	614.917	639.038	663.160	687.281	711.403	735.524	759.646
42.5	497.341	517.385	537.429	557.474	577.518	597.562	617.607	637.651	657.696	677.740
45.0	443.456	461.855	480.254	498.654	517.053	535.452	553.851	572.251	590.650	609.049
47.5	401.175	417.609	434.043	450.477	466.912	483.346	499.780	516.214	532.649	549.083
50.0	356.813	371.354	385.895	400.437	414.978	429.519	444.060	458.602	473.143	487.684
52.5	315.330	328.173	341.017	353.860	366.704	379.547	392.391	405.234	418.078	430.921
55.0	276.287	287.923	299.558	311.194	322.829	334.465	346.100	357.736	369.371	381.007
57.5	239.923	250.096	260.269	270.442	280.615	290.788	300.961	311.134	321.306	331.479
60.0	208.225	217.175	226.124	235.074	244.023	252.973	261.922	270.872	279.821	288.771
62.5	181.759	189.354	196.948	204.543	212.137	219.732	227.326	234.921	242.515	250.110
65.0	159.938	166.127	172.316	178.506	184.695	190.884	197.073	203.263	209.452	215.641
67.5	139.225	144.363	149.501	154.639	159.777	164.915	170.053	175.191	180.329	185.467
70.0	117.986	122.487	126.988	131.489	135.990	140.492	144.993	149.494	153.995	158.496
72.5	95.785	100.070	104.356	108.642	112.928	117.214	121.500	125.786	130.072	134.358
75.0	71.698	76.359	81.021	85.682	90.343	95.005	99.666	104.327	108.989	113.650
77.5	48.179	53.838	59.498	65.158	70.818	76.477	82.137	87.797	93.457	99.117

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CANDELA TABULATION - (Cont.)

80.0	31.157	37.469	43.780	50.092	56.404	62.715	69.027	75.339	81.650	87.962
82.5	19.122	25.903	32.684	39.464	46.245	53.026	59.807	66.587	73.368	80.149
85.0	20.312	26.828	33.345	39.861	46.378	52.894	59.411	65.927	72.444	78.960
87.5	21.661	28.639	35.616	42.594	49.572	56.549	63.527	70.505	77.482	84.460
90.0	22.073	29.674	37.276	44.877	52.478	60.080	67.681	75.282	82.884	90.485
92.5	24.071	31.900	39.729	47.558	55.387	63.217	71.046	78.875	86.704	94.533
95.0	23.082	30.623	38.164	45.704	53.245	60.786	68.327	75.867	83.408	90.949
97.5	21.285	28.314	35.343	42.373	49.402	56.431	63.460	70.489	77.518	84.548
100.0	19.395	25.927	32.460	38.992	45.525	52.057	58.590	65.122	71.655	78.187
102.5	17.726	23.739	29.752	35.765	41.778	47.791	53.804	59.817	65.830	71.843
105.0	17.201	22.534	27.867	33.200	38.533	43.867	49.200	54.533	59.866	65.199
107.5	16.130	20.875	25.621	30.366	35.112	39.857	44.602	49.348	54.093	58.839
110.0	14.935	19.104	23.273	27.443	31.612	35.781	39.950	44.120	48.289	52.458
112.5	13.699	17.318	20.936	24.555	28.174	31.793	35.411	39.030	42.649	46.268
115.0	12.679	15.762	18.845	21.928	25.011	28.095	31.178	34.261	37.344	40.427
117.5	11.701	14.303	16.906	19.508	22.111	24.713	27.315	29.918	32.520	35.123
120.0	10.671	12.913	15.155	17.397	19.639	21.880	24.122	26.364	28.606	30.848
122.5	9.600	11.574	13.549	15.524	17.499	19.473	21.448	23.423	25.398	27.373
125.0	8.662	10.395	12.127	13.860	15.593	17.325	19.058	20.791	22.523	24.256
127.5	8.349	9.811	11.273	12.735	14.197	15.659	17.121	18.583	20.045	21.507
130.0	7.776	9.034	10.292	11.549	12.807	14.065	15.323	16.580	17.838	19.096
132.5	6.891	7.996	9.102	10.207	11.313	12.418	13.524	14.629	15.735	16.841
135.0	6.108	7.092	8.076	9.061	10.045	11.029	12.013	12.998	13.982	14.966
137.5	5.485	6.327	7.169	8.012	8.854	9.696	10.539	11.381	12.223	13.066
140.0	4.872	5.580	6.289	6.997	7.706	8.414	9.123	9.831	10.540	11.248
142.5	4.347	4.923	5.500	6.077	6.654	7.231	7.808	8.384	8.961	9.538
145.0	4.264	4.674	5.084	5.493	5.903	6.313	6.723	7.132	7.542	7.952
147.5	4.269	4.512	4.754	4.997	5.240	5.482	5.725	5.968	6.210	6.453
150.0	5.037	5.059	5.080	5.102	5.124	5.145	5.167	5.189	5.210	5.232
152.5	5.516	5.413	5.310	5.207	5.104	5.001	4.898	4.795	4.692	4.589
155.0	5.758	5.621	5.483	5.346	5.209	5.071	4.934	4.797	4.659	4.522
157.5	6.041	5.923	5.804	5.686	5.567	5.449	5.330	5.212	5.093	4.975
160.0	6.407	6.271	6.135	5.998	5.862	5.726	5.590	5.453	5.317	5.181
162.5	6.510	6.379	6.249	6.118	5.988	5.857	5.727	5.596	5.466	5.336
165.0	6.551	6.430	6.308	6.187	6.066	5.944	5.823	5.702	5.580	5.459
167.5	6.232	6.147	6.062	5.978	5.893	5.808	5.724	5.639	5.554	5.470
170.0	6.056	5.977	5.898	5.819	5.740	5.662	5.583	5.504	5.425	5.346
172.5	6.056	5.971	5.887	5.802	5.717	5.633	5.548	5.463	5.379	5.294
175.0	6.077	5.987	5.896	5.806	5.715	5.625	5.534	5.444	5.353	5.263
177.5	5.876	5.794	5.712	5.631	5.549	5.467	5.385	5.304	5.222	5.140
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

**Vert.
Angles**

Horizontal Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	2021.801	2030.739	2039.678	2048.617	2057.555	2066.494	2075.433	2084.371	2093.310	2099.840
5.0	1923.796	1936.139	1948.482	1960.825	1973.167	1985.510	1997.853	2010.196	2022.539	2043.989
7.5	1932.328	1948.831	1965.334	1981.837	1998.340	2014.843	2031.346	2047.849	2064.352	2093.645
10.0	1880.274	1907.702	1935.129	1962.557	1989.985	2017.413	2044.840	2072.268	2099.696	2127.456
12.5	1783.986	1808.855	1833.725	1858.594	1883.463	1908.333	1933.202	1958.071	1982.941	2014.225
15.0	1686.411	1723.308	1760.205	1797.102	1833.998	1870.895	1907.792	1944.689	1981.586	2013.166
17.5	1585.557	1627.659	1669.761	1711.862	1753.964	1796.066	1838.168	1880.270	1922.372	1969.056
20.0	1515.209	1559.063	1602.917	1646.771	1690.625	1734.479	1778.333	1822.187	1866.041	1929.265
22.5	1418.656	1466.438	1514.220	1562.003	1609.785	1657.567	1705.349	1753.132	1800.914	1869.474
25.0	1349.998	1401.084	1452.169	1503.255	1554.341	1605.427	1656.512	1707.598	1758.684	1821.379

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

27.5	1245.330	1297.389	1349.448	1401.507	1453.566	1505.625	1557.684	1609.743	1661.802	1719.769
30.0	1140.764	1193.518	1246.273	1299.027	1351.781	1404.535	1457.290	1510.044	1562.798	1626.415
32.5	1052.365	1112.825	1173.285	1233.745	1294.205	1354.665	1415.124	1475.584	1536.044	1605.675
35.0	977.456	1036.348	1095.240	1154.132	1213.024	1271.916	1330.808	1389.700	1448.592	1529.548
37.5	885.504	943.579	1001.653	1059.727	1117.801	1175.876	1233.950	1292.024	1350.099	1424.993
40.0	816.647	873.649	930.650	987.651	1044.653	1101.654	1158.655	1215.657	1272.658	1346.010
42.5	735.806	793.873	851.939	910.005	968.071	1026.138	1084.204	1142.270	1200.337	1271.649
45.0	665.862	722.674	779.487	836.299	893.112	949.924	1006.737	1063.549	1120.362	1195.933
47.5	605.063	661.043	717.023	773.003	828.982	884.962	940.942	996.922	1052.902	1127.451
50.0	541.117	594.550	647.983	701.416	754.849	808.282	861.715	915.148	968.581	1041.822
52.5	481.093	531.266	581.438	631.611	681.783	731.956	782.128	832.301	882.473	956.377
55.0	426.625	472.242	517.860	563.477	609.095	654.712	700.330	745.947	791.565	860.866
57.5	372.076	412.672	453.268	493.865	534.461	575.057	615.654	656.250	696.846	766.929
60.0	325.424	362.077	398.730	435.383	472.037	508.690	545.343	581.996	618.649	684.255
62.5	282.687	315.264	347.841	380.418	412.996	445.573	478.150	510.727	543.305	608.033
65.0	244.629	273.616	302.604	331.591	360.579	389.566	418.554	447.541	476.529	540.514
67.5	211.529	237.592	263.654	289.717	315.779	341.842	367.904	393.967	420.029	484.124
70.0	180.543	202.589	224.636	246.683	268.729	290.776	312.823	334.869	356.916	418.116
72.5	152.447	170.535	188.624	206.712	224.801	242.889	260.978	279.066	297.155	355.240
75.0	128.203	142.756	157.308	171.861	186.414	200.967	215.519	230.072	244.625	300.110
77.5	111.522	123.928	136.334	148.740	161.145	173.551	185.957	198.363	210.769	268.994
80.0	97.430	106.898	116.366	125.834	135.302	144.770	154.238	163.706	173.174	237.175
82.5	86.644	93.139	99.633	106.128	112.623	119.118	125.612	132.107	138.602	209.049
85.0	83.173	87.385	91.598	95.811	100.023	104.236	108.449	112.661	116.874	194.544
87.5	87.164	89.867	92.571	95.275	97.979	100.682	103.386	106.090	108.794	186.349
90.0	92.662	94.839	97.015	99.192	101.369	103.546	105.722	107.899	110.076	183.526
92.5	96.911	99.289	101.668	104.046	106.424	108.802	111.180	113.558	115.937	182.543
95.0	93.887	96.825	99.762	102.700	105.638	108.576	111.513	114.451	117.389	176.134
97.5	88.052	91.556	95.061	98.565	102.069	105.574	109.078	112.582	116.087	167.247
100.0	82.212	86.237	90.262	94.287	98.312	102.337	106.362	110.387	114.412	159.147
102.5	76.338	80.833	85.329	89.824	94.319	98.815	103.310	107.805	112.301	149.569
105.0	70.145	75.092	80.038	84.984	89.931	94.877	99.823	104.770	109.716	140.588
107.5	64.081	69.323	74.565	79.807	85.049	90.292	95.534	100.776	106.018	131.754
110.0	57.859	63.259	68.660	74.061	79.461	84.862	90.263	95.663	101.064	122.943
112.5	51.712	57.157	62.602	68.046	73.491	78.936	84.381	89.825	95.270	114.566
115.0	45.756	51.084	56.413	61.741	67.070	72.398	77.727	83.055	88.384	105.688
117.5	40.088	45.054	50.020	54.986	59.951	64.917	69.883	74.849	79.815	95.198
120.0	35.295	39.743	44.190	48.637	53.085	57.532	61.979	66.427	70.874	84.483
122.5	31.326	35.279	39.233	43.186	47.140	51.093	55.047	59.000	62.954	75.067
125.0	27.718	31.180	34.642	38.104	41.566	45.028	48.490	51.952	55.414	66.898
127.5	24.432	27.357	30.282	33.207	36.132	39.058	41.983	44.908	47.833	58.506
130.0	21.505	23.914	26.323	28.732	31.142	33.551	35.960	38.369	40.778	50.796
132.5	18.819	20.798	22.777	24.755	26.734	28.713	30.692	32.670	34.649	43.714
135.0	16.613	18.260	19.907	21.554	23.200	24.847	26.494	28.141	29.788	37.503
137.5	14.523	15.980	17.438	18.895	20.353	21.810	23.268	24.725	26.183	32.965
140.0	12.550	13.853	15.155	16.457	17.760	19.062	20.364	21.667	22.969	28.521
142.5	10.692	11.846	13.001	14.155	15.309	16.463	17.617	18.771	19.926	24.254
145.0	8.981	10.010	11.038	12.067	13.096	14.125	15.153	16.182	17.211	20.219
147.5	7.358	8.262	9.167	10.072	10.976	11.881	12.786	13.690	14.595	16.372
150.0	6.017	6.802	7.587	8.372	9.158	9.943	10.728	11.513	12.298	13.485
152.5	5.229	5.870	6.511	7.152	7.793	8.434	9.075	9.716	10.357	11.055
155.0	4.968	5.415	5.861	6.307	6.754	7.200	7.646	8.093	8.539	8.925
157.5	5.240	5.505	5.770	6.035	6.299	6.564	6.829	7.094	7.359	7.660
160.0	5.331	5.481	5.631	5.781	5.930	6.080	6.230	6.380	6.530	6.746
162.5	5.393	5.451	5.509	5.567	5.624	5.682	5.740	5.798	5.856	5.979
165.0	5.492	5.525	5.559	5.592	5.625	5.658	5.692	5.725	5.758	5.773

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CANDELA TABULATION - (Cont.)

167.5	5.575	5.680	5.785	5.891	5.996	6.101	6.206	6.312	6.417	6.368
170.0	5.529	5.712	5.895	6.078	6.262	6.445	6.628	6.811	6.994	6.945
172.5	5.483	5.672	5.861	6.050	6.238	6.427	6.616	6.805	6.994	6.961
175.0	5.461	5.659	5.857	6.055	6.253	6.451	6.649	6.847	7.045	7.027
177.5	5.352	5.563	5.775	5.987	6.198	6.410	6.622	6.833	7.045	7.050
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

**Vert.
Angles**

Horizontal Angles

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	2106.370	2112.901	2119.431	2125.961	2132.491	2139.022	2145.552	2152.082	2159.111	2166.140
5.0	2065.440	2086.890	2108.340	2129.791	2151.241	2172.691	2194.142	2215.592	2232.151	2248.710
7.5	2122.938	2152.232	2181.525	2210.818	2240.111	2269.404	2298.697	2327.991	2328.386	2328.781
10.0	2155.215	2182.975	2210.735	2238.494	2266.254	2294.014	2321.773	2349.533	2362.167	2374.800
12.5	2045.510	2076.794	2108.079	2139.363	2170.648	2201.932	2233.217	2264.501	2306.812	2349.122
15.0	2044.746	2076.325	2107.905	2139.485	2171.065	2202.644	2234.224	2265.804	2303.237	2340.669
17.5	2015.740	2062.424	2109.108	2155.792	2202.477	2249.161	2295.845	2342.529	2351.716	2360.903
20.0	1992.488	2055.712	2118.936	2182.159	2245.383	2308.607	2371.830	2435.054	2461.420	2487.785
22.5	1938.033	2006.593	2075.152	2143.712	2212.272	2280.831	2349.391	2417.951	2435.467	2452.983
25.0	1884.074	1946.769	2009.464	2072.158	2134.853	2197.548	2260.243	2322.938	2327.089	2331.240
27.5	1777.737	1835.704	1893.671	1951.638	2009.606	2067.573	2125.540	2183.508	2208.638	2233.769
30.0	1690.033	1753.650	1817.268	1880.885	1944.503	2008.120	2071.738	2135.355	2177.242	2219.128
32.5	1675.306	1744.937	1814.568	1884.198	1953.829	2023.460	2093.091	2162.722	2191.267	2219.813
35.0	1610.503	1691.459	1772.415	1853.370	1934.326	2015.282	2096.237	2177.193	2196.048	2214.903
37.5	1499.887	1574.781	1649.675	1724.569	1799.463	1874.357	1949.251	2024.146	2056.326	2088.506
40.0	1419.362	1492.714	1566.066	1639.418	1712.770	1786.122	1859.474	1932.826	1974.493	2016.160
42.5	1342.962	1414.274	1485.587	1556.900	1628.212	1699.525	1770.837	1842.150	1894.799	1947.448
45.0	1271.504	1347.075	1422.646	1498.218	1573.789	1649.360	1724.931	1800.502	1856.108	1911.714
47.5	1202.000	1276.549	1351.098	1425.648	1500.197	1574.746	1649.295	1723.844	1786.962	1850.081
50.0	1115.063	1188.304	1261.545	1334.786	1408.027	1481.268	1554.509	1627.750	1704.779	1781.808
52.5	1030.280	1104.184	1178.088	1251.991	1325.895	1399.799	1473.702	1547.606	1631.296	1714.986
55.0	930.166	999.467	1068.768	1138.068	1207.369	1276.670	1345.970	1415.271	1507.732	1600.193
57.5	837.011	907.093	977.176	1047.258	1117.340	1187.423	1257.505	1327.587	1421.866	1516.144
60.0	749.862	815.468	881.075	946.681	1012.288	1077.894	1143.501	1209.107	1321.107	1433.107
62.5	672.761	737.489	802.217	866.945	931.673	996.401	1061.129	1125.857	1237.890	1349.923
65.0	604.499	668.483	732.468	796.453	860.438	924.422	988.407	1052.392	1145.646	1238.900
67.5	548.219	612.315	676.410	740.505	804.600	868.695	932.790	996.886	1081.985	1167.084
70.0	479.316	540.517	601.717	662.917	724.117	785.318	846.518	907.718	1001.480	1095.242
72.5	413.324	471.409	529.493	587.578	645.662	703.747	761.831	819.916	899.676	979.436
75.0	355.595	411.080	466.565	522.050	577.535	633.020	688.505	743.990	806.400	868.810
77.5	327.220	385.446	443.672	501.898	560.124	618.350	676.576	734.802	792.245	849.687
80.0	301.176	365.176	429.177	493.178	557.179	621.179	685.180	749.181	794.758	840.336
82.5	279.496	349.943	420.389	490.836	561.283	631.730	702.177	772.624	823.508	874.392
85.0	272.214	349.884	427.554	505.224	582.894	660.564	738.234	815.904	880.437	944.970
87.5	263.904	341.459	419.014	496.569	574.124	651.679	729.234	806.789	884.558	962.328
90.0	256.977	330.427	403.878	477.328	550.779	624.229	697.680	771.130	857.365	943.600
92.5	249.150	315.757	382.363	448.970	515.577	582.183	648.790	715.397	801.576	887.756
95.0	234.880	293.625	352.371	411.116	469.862	528.607	587.353	646.098	735.385	824.673
97.5	218.407	269.567	320.727	371.887	423.047	474.207	525.367	576.527	664.639	752.751
100.0	203.882	248.618	293.353	338.088	382.823	427.559	472.294	517.029	600.719	684.409
102.5	186.838	224.107	261.376	298.645	335.914	373.183	410.452	447.721	530.634	613.548
105.0	171.461	202.333	233.206	264.078	294.951	325.823	356.696	387.568	464.939	542.311
107.5	157.489	183.225	208.961	234.697	260.432	286.168	311.904	337.640	408.565	479.491
110.0	144.823	166.702	188.582	210.461	232.341	254.220	276.100	297.979	358.439	418.899
112.5	133.863	153.159	172.456	191.752	211.049	230.345	249.642	268.938	319.365	369.792

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

115.0	122.992	140.296	157.600	174.904	192.208	209.512	226.816	244.120	285.935	327.749
117.5	110.582	125.966	141.349	156.733	172.117	187.500	202.884	218.268	256.122	293.976
120.0	98.091	111.700	125.309	138.917	152.526	166.135	179.743	193.352	226.046	258.741
122.5	87.180	99.294	111.407	123.520	135.634	147.747	159.861	171.974	199.009	226.043
125.0	78.383	89.867	101.352	112.836	124.321	135.805	147.290	158.774	181.236	203.698
127.5	69.178	79.851	90.523	101.196	111.868	122.541	133.213	143.886	164.109	184.333
130.0	60.815	70.833	80.852	90.870	100.889	110.907	120.926	130.944	147.724	164.504
132.5	52.779	61.844	70.909	79.975	89.040	98.105	107.170	116.235	131.443	146.651
135.0	45.217	52.932	60.647	68.361	76.076	83.791	91.505	99.220	114.261	129.303
137.5	39.747	46.529	53.311	60.093	66.875	73.657	80.439	87.221	100.137	113.054
140.0	34.072	39.624	45.176	50.727	56.279	61.831	67.382	72.934	85.151	97.368
142.5	28.582	32.910	37.239	41.567	45.895	50.223	54.552	58.880	71.712	84.543
145.0	23.226	26.234	29.242	32.249	35.257	38.265	41.272	44.280	57.283	70.286
147.5	18.150	19.927	21.704	23.482	25.259	27.036	28.814	30.591	43.608	56.625
150.0	14.672	15.858	17.045	18.232	19.419	20.605	21.792	22.979	34.905	46.832
152.5	11.754	12.453	13.151	13.850	14.549	15.248	15.946	16.645	26.289	35.932
155.0	9.310	9.696	10.082	10.467	10.853	11.239	11.624	12.010	18.787	25.565
157.5	7.961	8.262	8.563	8.864	9.165	9.466	9.767	10.068	13.920	17.772
160.0	6.963	7.179	7.395	7.612	7.828	8.044	8.261	8.477	9.419	10.361
162.5	6.102	6.225	6.348	6.471	6.594	6.717	6.840	6.963	7.189	7.416
165.0	5.788	5.803	5.818	5.832	5.847	5.862	5.877	5.892	5.934	5.977
167.5	6.320	6.271	6.223	6.174	6.125	6.077	6.028	5.980	5.995	6.010
170.0	6.896	6.846	6.797	6.748	6.699	6.649	6.600	6.551	6.502	6.453
172.5	6.928	6.894	6.861	6.828	6.795	6.761	6.728	6.695	6.652	6.608
175.0	7.008	6.990	6.972	6.953	6.935	6.917	6.898	6.880	6.842	6.804
177.5	7.055	7.061	7.066	7.071	7.076	7.081	7.086	7.092	7.061	7.030
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Vert. Angles **Horizontal Angles**

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	2173.170	2180.199	2187.228	2194.257	2201.287	2208.316	2215.345	2218.976	2222.608	2226.239
5.0	2265.269	2281.828	2298.386	2314.945	2331.504	2348.063	2364.622	2360.702	2356.783	2352.863
7.5	2329.177	2329.572	2329.967	2330.363	2330.758	2331.154	2331.549	2347.896	2364.244	2380.591
10.0	2387.434	2400.067	2412.701	2425.334	2437.968	2450.601	2463.235	2483.809	2504.382	2524.956
12.5	2391.433	2433.744	2476.055	2518.365	2560.676	2602.987	2645.298	2626.573	2607.848	2589.123
15.0	2378.102	2415.534	2452.967	2490.399	2527.832	2565.264	2602.697	2604.101	2605.505	2606.910
17.5	2370.090	2379.277	2388.464	2397.651	2406.838	2416.025	2425.212	2458.828	2492.445	2526.061
20.0	2514.151	2540.517	2566.882	2593.248	2619.614	2645.979	2672.345	2642.700	2613.056	2583.411
22.5	2470.500	2488.016	2505.532	2523.049	2540.565	2558.081	2575.598	2577.784	2579.970	2582.157
25.0	2335.391	2339.542	2343.692	2347.843	2351.994	2356.145	2360.296	2403.871	2447.446	2491.020
27.5	2258.900	2284.031	2309.162	2334.293	2359.423	2384.554	2409.685	2425.307	2440.929	2456.552
30.0	2261.015	2302.902	2344.788	2386.675	2428.562	2470.448	2512.335	2516.123	2519.911	2523.699
32.5	2248.358	2276.903	2305.449	2333.994	2362.539	2391.085	2419.630	2456.528	2493.426	2530.324
35.0	2233.757	2252.612	2271.467	2290.322	2309.176	2328.031	2346.886	2373.101	2399.315	2425.530
37.5	2120.686	2152.866	2185.046	2217.226	2249.406	2281.586	2313.767	2343.334	2372.902	2402.470
40.0	2057.827	2099.494	2141.160	2182.827	2224.494	2266.161	2307.828	2355.375	2402.922	2450.469
42.5	2000.097	2052.746	2105.395	2158.044	2210.693	2263.342	2315.991	2366.943	2417.895	2468.847
45.0	1967.321	2022.927	2078.533	2134.139	2189.746	2245.352	2300.958	2370.800	2440.642	2510.484
47.5	1913.199	1976.318	2039.436	2102.555	2165.673	2228.792	2291.910	2371.942	2451.973	2532.005
50.0	1858.837	1935.866	2012.896	2089.925	2166.954	2243.983	2321.012	2387.899	2454.786	2521.673
52.5	1798.675	1882.365	1966.055	2049.745	2133.434	2217.124	2300.814	2359.941	2419.068	2478.195
55.0	1692.654	1785.115	1877.575	1970.036	2062.497	2154.958	2247.419	2348.996	2450.574	2552.151
57.5	1610.422	1704.700	1798.978	1893.256	1987.535	2081.813	2176.091	2304.680	2433.269	2561.859
60.0	1545.107	1657.107	1769.106	1881.106	1993.106	2105.106	2217.106	2300.566	2384.026	2467.485

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CANDELA TABULATION - (Cont.)

62.5	1461.956	1573.989	1686.022	1798.056	1910.089	2022.122	2134.155	2220.912	2307.670	2394.427
65.0	1332.154	1425.408	1518.661	1611.915	1705.169	1798.423	1891.677	2027.631	2163.586	2299.540
67.5	1252.183	1337.282	1422.381	1507.481	1592.580	1677.679	1762.778	1923.003	2083.227	2243.452
70.0	1189.004	1282.766	1376.529	1470.291	1564.053	1657.815	1751.577	1877.985	2004.394	2130.802
72.5	1059.195	1138.955	1218.715	1298.475	1378.234	1457.994	1537.754	1674.456	1811.158	1947.861
75.0	931.220	993.630	1056.039	1118.449	1180.859	1243.269	1305.679	1471.697	1637.715	1803.732
77.5	907.130	964.572	1022.015	1079.457	1136.900	1194.342	1251.785	1331.699	1411.613	1491.527
80.0	885.913	931.491	977.068	1022.646	1068.223	1113.801	1159.378	1181.989	1204.600	1227.210
82.5	925.276	976.161	1027.045	1077.929	1128.813	1179.698	1230.582	1249.407	1268.232	1287.057
85.0	1009.503	1074.036	1138.569	1203.102	1267.635	1332.168	1396.701	1416.841	1436.981	1457.121
87.5	1040.097	1117.867	1195.636	1273.406	1351.175	1428.945	1506.715	1553.425	1600.136	1646.846
90.0	1029.835	1116.070	1202.305	1288.540	1374.775	1461.010	1547.245	1616.307	1685.368	1754.430
92.5	973.935	1060.115	1146.294	1232.474	1318.653	1404.833	1491.013	1556.647	1622.281	1687.916
95.0	913.960	1003.247	1092.535	1181.822	1271.109	1360.397	1449.684	1518.193	1586.701	1655.210
97.5	840.863	928.975	1017.087	1105.199	1193.311	1281.423	1369.535	1434.784	1500.033	1565.283
100.0	768.098	851.788	935.478	1019.168	1102.857	1186.547	1270.237	1331.856	1393.475	1455.095
102.5	696.462	779.376	862.290	945.204	1028.117	1111.031	1193.945	1238.190	1282.435	1326.680
105.0	619.682	697.053	774.425	851.796	929.167	1006.539	1083.910	1123.683	1163.456	1203.229
107.5	550.417	621.342	692.268	763.194	834.120	905.045	975.971	1002.526	1029.080	1055.635
110.0	479.359	539.819	600.278	660.738	721.198	781.658	842.118	861.466	880.814	900.162
112.5	420.219	470.646	521.074	571.501	621.928	672.355	722.782	741.688	760.593	779.499
115.0	369.564	411.378	453.193	495.007	536.822	578.636	620.451	641.595	662.738	683.882
117.5	331.830	369.684	407.538	445.393	483.247	521.101	558.955	576.347	593.738	611.130
120.0	291.435	324.130	356.824	389.519	422.213	454.908	487.602	505.501	523.400	541.299
122.5	253.078	280.112	307.147	334.182	361.216	388.251	415.286	433.708	452.131	470.554
125.0	226.160	248.622	271.085	293.547	316.009	338.471	360.933	379.847	398.761	417.676
127.5	204.556	224.780	245.003	265.227	285.450	305.674	325.897	342.357	358.817	375.277
130.0	181.283	198.063	214.843	231.623	248.402	265.182	281.962	296.547	311.132	325.717
132.5	161.859	177.067	192.275	207.483	222.691	237.899	253.107	265.462	277.817	290.172
135.0	144.344	159.386	174.427	189.469	204.510	219.552	234.593	245.229	255.866	266.502
137.5	125.971	138.887	151.804	164.721	177.638	190.554	203.471	214.562	225.654	236.745
140.0	109.585	121.802	134.019	146.236	158.453	170.670	182.887	192.255	201.624	210.992
142.5	97.375	110.206	123.038	135.869	148.701	161.532	174.364	180.833	187.303	193.772
145.0	83.289	96.292	109.296	122.299	135.302	148.305	161.308	166.981	172.654	178.327
147.5	69.642	82.659	95.675	108.692	121.709	134.726	147.743	153.250	158.757	164.264
150.0	58.758	70.684	82.611	94.537	106.463	118.390	130.316	135.785	141.254	146.724
152.5	45.576	55.219	64.863	74.507	84.150	93.794	103.438	110.068	116.699	123.330
155.0	32.342	39.119	45.897	52.674	59.451	66.229	73.006	81.054	89.102	97.149
157.5	21.625	25.477	29.329	33.181	37.034	40.886	44.738	53.069	61.400	69.731
160.0	11.303	12.245	13.186	14.128	15.070	16.012	16.954	23.957	30.960	37.962
162.5	7.642	7.869	8.096	8.322	8.549	8.775	9.002	12.791	16.579	20.368
165.0	6.019	6.061	6.104	6.146	6.188	6.231	6.273	6.468	6.662	6.857
167.5	6.026	6.041	6.056	6.072	6.087	6.103	6.118	6.130	6.142	6.154
170.0	6.403	6.354	6.305	6.256	6.206	6.157	6.108	6.107	6.106	6.105
172.5	6.565	6.521	6.478	6.434	6.391	6.347	6.304	6.282	6.261	6.240
175.0	6.767	6.729	6.691	6.653	6.616	6.578	6.540	6.518	6.497	6.475
177.5	6.999	6.968	6.937	6.906	6.875	6.844	6.814	6.772	6.731	6.690
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Vert. Angles **Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	2229.870	2233.501	2237.133	2240.764	2244.395	2248.027	2250.801	2253.575	2256.349	2259.123
5.0	2348.943	2345.024	2341.104	2337.184	2333.265	2329.345	2330.552	2331.760	2332.967	2334.174
7.5	2396.938	2413.285	2429.633	2445.980	2462.327	2478.675	2480.133	2481.591	2483.049	2484.507

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

10.0	2545.530	2566.103	2586.677	2607.251	2627.824	2648.398	2652.203	2656.008	2659.814	2663.619
12.5	2570.398	2551.673	2532.949	2514.224	2495.499	2476.774	2480.245	2483.715	2487.186	2490.656
15.0	2608.314	2609.718	2611.122	2612.527	2613.931	2615.335	2637.759	2660.183	2682.608	2705.032
17.5	2559.678	2593.294	2626.910	2660.527	2694.143	2727.760	2701.398	2675.036	2648.674	2622.313
20.0	2553.767	2524.122	2494.478	2464.833	2435.189	2405.544	2409.249	2412.953	2416.658	2420.362
22.5	2584.343	2586.530	2588.716	2590.903	2593.089	2595.276	2625.970	2656.665	2687.359	2718.054
25.0	2534.595	2578.170	2621.745	2665.319	2708.894	2752.469	2736.903	2721.338	2705.772	2690.207
27.5	2472.174	2487.796	2503.418	2519.041	2534.663	2550.285	2549.460	2548.636	2547.811	2546.987
30.0	2527.487	2531.276	2535.064	2538.852	2542.640	2546.428	2572.878	2599.329	2625.779	2652.229
32.5	2567.222	2604.120	2641.018	2677.916	2714.814	2751.712	2760.688	2769.664	2778.640	2787.616
35.0	2451.745	2477.959	2504.174	2530.389	2556.603	2582.818	2591.512	2600.207	2608.901	2617.595
37.5	2432.038	2461.606	2491.174	2520.741	2550.309	2579.877	2603.210	2626.543	2649.876	2673.209
40.0	2498.016	2545.564	2593.111	2640.658	2688.205	2735.752	2756.169	2776.586	2797.003	2817.420
42.5	2519.798	2570.750	2621.702	2672.654	2723.606	2774.558	2803.068	2831.578	2860.089	2888.599
45.0	2580.326	2650.168	2720.010	2789.852	2859.694	2929.536	2975.669	3021.801	3067.934	3114.066
47.5	2612.036	2692.068	2772.099	2852.131	2932.162	3012.194	3045.041	3077.889	3110.737	3143.585
50.0	2588.560	2655.448	2722.335	2789.222	2856.109	2922.996	2940.628	2958.261	2975.893	2993.526
52.5	2537.322	2596.450	2655.577	2714.704	2773.831	2832.958	2889.743	2946.527	3003.312	3060.096
55.0	2653.729	2755.306	2856.884	2958.461	3060.039	3161.616	3247.956	3334.297	3420.637	3506.977
57.5	2690.448	2819.037	2947.626	3076.216	3204.805	3333.394	3331.123	3328.853	3326.582	3324.312
60.0	2550.945	2634.405	2717.865	2801.324	2884.784	2968.244	2990.265	3012.287	3034.308	3056.329
62.5	2481.185	2567.942	2654.700	2741.457	2828.215	2914.972	2956.927	2998.883	3040.838	3082.793
65.0	2435.494	2571.449	2707.403	2843.357	2979.312	3115.266	3188.500	3261.734	3334.968	3408.202
67.5	2403.676	2563.901	2724.125	2884.350	3044.574	3204.799	3223.748	3242.697	3261.646	3280.595
70.0	2257.211	2383.619	2510.028	2636.436	2762.845	2889.253	2923.851	2958.448	2993.046	3027.644
72.5	2084.563	2221.265	2357.967	2494.669	2631.371	2768.074	2833.673	2899.273	2964.872	3030.472
75.0	1969.750	2135.768	2301.786	2467.803	2633.821	2799.839	2837.586	2875.333	2913.081	2950.828
77.5	1571.442	1651.356	1731.270	1811.184	1891.099	1971.013	1990.312	2009.612	2028.911	2048.210
80.0	1249.821	1272.432	1295.043	1317.653	1340.264	1362.875	1378.152	1393.429	1408.707	1423.984
82.5	1305.882	1324.707	1343.532	1362.357	1381.182	1400.007	1421.781	1443.554	1465.328	1487.101
85.0	1477.261	1497.400	1517.540	1537.680	1557.820	1577.960	1621.146	1664.331	1707.517	1750.702
87.5	1693.557	1740.267	1786.978	1833.688	1880.399	1927.109	1994.880	2062.650	2130.421	2198.191
90.0	1823.491	1892.553	1961.614	2030.676	2099.737	2168.799	2223.193	2277.588	2331.982	2386.376
92.5	1753.550	1819.185	1884.819	1950.454	2016.088	2081.723	2158.501	2235.280	2312.058	2388.837
95.0	1723.719	1792.227	1860.736	1929.245	1997.753	2066.262	2135.564	2204.866	2274.168	2343.470
97.5	1630.532	1695.781	1761.031	1826.280	1891.529	1956.779	2024.333	2091.888	2159.443	2226.998
100.0	1516.714	1578.333	1639.952	1701.572	1763.191	1824.810	1871.416	1918.023	1964.629	2011.235
102.5	1370.924	1415.169	1459.414	1503.659	1547.904	1592.149	1591.592	1591.036	1590.480	1589.924
105.0	1243.002	1282.774	1322.547	1362.320	1402.093	1441.866	1452.369	1462.871	1473.374	1483.876
107.5	1082.189	1108.744	1135.298	1161.853	1188.407	1214.962	1229.550	1244.139	1258.727	1273.315
110.0	919.510	938.857	958.205	977.553	996.901	1016.249	1017.023	1017.796	1018.570	1019.344
112.5	798.404	817.310	836.216	855.121	874.027	892.933	895.361	897.790	900.218	902.647
115.0	705.026	726.169	747.313	768.457	789.600	810.744	815.324	819.904	824.484	829.064
117.5	628.521	645.913	663.304	680.696	698.087	715.479	722.548	729.616	736.685	743.754
120.0	559.198	577.098	594.997	612.896	630.795	648.694	655.004	661.315	667.625	673.936
122.5	488.976	507.399	525.822	544.245	562.667	581.090	595.408	609.726	624.044	638.362
125.0	436.590	455.504	474.418	493.333	512.247	531.161	546.109	561.056	576.004	590.951
127.5	391.737	408.197	424.657	441.117	457.577	474.037	492.223	510.410	528.596	546.783
130.0	340.302	354.886	369.471	384.056	398.641	413.226	430.547	447.868	465.189	482.510
132.5	302.526	314.881	327.236	339.591	351.946	364.301	378.219	392.138	406.057	419.976
135.0	277.139	287.775	298.412	309.048	319.685	330.321	340.980	351.640	362.299	372.958
137.5	247.837	258.928	270.019	281.111	292.202	303.294	312.324	321.354	330.384	339.414
140.0	220.361	229.729	239.098	248.466	257.835	267.203	274.856	282.509	290.162	297.815
142.5	200.242	206.711	213.181	219.650	226.120	232.590	238.932	245.275	251.617	257.960
145.0	184.000	189.673	195.346	201.019	206.692	212.365	217.307	222.249	227.190	232.132
147.5	169.771	175.278	180.785	186.292	191.799	197.307	200.498	203.689	206.881	210.072

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

150.0	152.193	157.662	163.131	168.601	174.070	179.539	182.496	185.453	188.411	191.368
152.5	129.961	136.592	143.223	149.854	156.485	163.116	165.827	168.538	171.249	173.961
155.0	105.197	113.245	121.293	129.340	137.388	145.436	148.114	150.792	153.470	156.148
157.5	78.062	86.393	94.724	103.055	111.386	119.717	122.624	125.532	128.439	131.347
160.0	44.965	51.968	58.971	65.973	72.976	79.979	83.615	87.251	90.887	94.523
162.5	24.157	27.946	31.734	35.523	39.312	43.101	45.705	48.309	50.913	53.517
165.0	7.051	7.246	7.440	7.635	7.829	8.024	10.206	12.389	14.571	16.754
167.5	6.166	6.178	6.190	6.202	6.214	6.226	6.185	6.145	6.104	6.064
170.0	6.104	6.102	6.101	6.100	6.099	6.098	6.066	6.034	6.002	5.970
172.5	6.219	6.198	6.177	6.155	6.134	6.113	6.083	6.052	6.022	5.992
175.0	6.453	6.432	6.410	6.388	6.367	6.345	6.316	6.288	6.259	6.230
177.5	6.649	6.607	6.566	6.525	6.484	6.443	6.403	6.364	6.324	6.285
180.0	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000

Vert. Angles **Horizontal Angles**

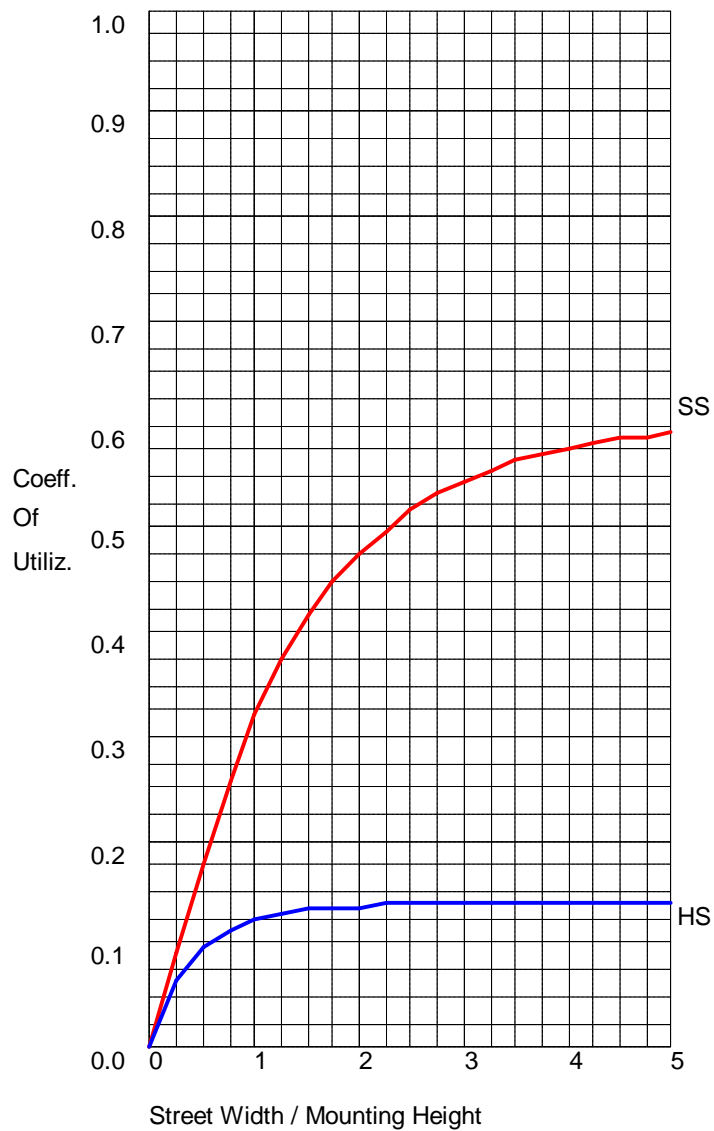
	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	2082.938	2082.938	2082.938	2082.938	2082.938
2.5	2261.897	2264.671	2267.445	2270.219	2272.994
5.0	2335.382	2336.589	2337.796	2339.004	2340.211
7.5	2485.965	2487.423	2488.881	2490.339	2491.797
10.0	2667.424	2671.229	2675.035	2678.840	2682.645
12.5	2494.127	2497.597	2501.068	2504.538	2508.009
15.0	2727.456	2749.880	2772.305	2794.729	2817.153
17.5	2595.951	2569.589	2543.227	2516.866	2490.504
20.0	2424.067	2427.771	2431.476	2435.180	2438.885
22.5	2748.749	2779.443	2810.138	2840.832	2871.527
25.0	2674.641	2659.076	2643.510	2627.945	2612.379
27.5	2546.162	2545.338	2544.513	2543.689	2542.864
30.0	2678.680	2705.130	2731.580	2758.031	2784.481
32.5	2796.591	2805.567	2814.543	2823.519	2832.495
35.0	2626.290	2634.984	2643.678	2652.373	2661.067
37.5	2696.542	2719.875	2743.208	2766.541	2789.874
40.0	2837.836	2858.253	2878.670	2899.087	2919.504
42.5	2917.109	2945.620	2974.130	3002.641	3031.151
45.0	3160.199	3206.331	3252.464	3298.596	3344.729
47.5	3176.433	3209.281	3242.129	3274.977	3307.825
50.0	3011.158	3028.791	3046.423	3064.056	3081.688
52.5	3116.881	3173.665	3230.450	3287.234	3344.019
55.0	3593.318	3679.658	3765.998	3852.339	3938.679
57.5	3322.041	3319.770	3317.500	3315.229	3312.958
60.0	3078.351	3100.372	3122.393	3144.415	3166.436
62.5	3124.749	3166.704	3208.659	3250.615	3292.570
65.0	3481.437	3554.671	3627.905	3701.139	3774.373
67.5	3299.544	3318.493	3337.442	3356.391	3375.341
70.0	3062.241	3096.839	3131.437	3166.034	3200.632
72.5	3096.071	3161.671	3227.270	3292.870	3358.470
75.0	2988.575	3026.322	3064.070	3101.817	3139.564
77.5	2067.510	2086.809	2106.108	2125.408	2144.707
80.0	1439.261	1454.538	1469.816	1485.093	1500.370
82.5	1508.875	1530.649	1552.422	1574.196	1595.970
85.0	1793.888	1837.073	1880.259	1923.444	1966.630
87.5	2265.962	2333.733	2401.503	2469.274	2537.045
90.0	2440.771	2495.165	2549.559	2603.954	2658.348
92.5	2465.615	2542.394	2619.172	2695.951	2772.729
95.0	2412.771	2482.073	2551.375	2620.677	2689.979

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

97.5	2294.553	2362.108	2429.662	2497.217	2564.772
100.0	2057.842	2104.448	2151.054	2197.661	2244.267
102.5	1589.367	1588.811	1588.255	1587.699	1587.143
105.0	1494.379	1504.881	1515.384	1525.886	1536.389
107.5	1287.903	1302.492	1317.080	1331.668	1346.257
110.0	1020.117	1020.891	1021.665	1022.438	1023.212
112.5	905.075	907.504	909.932	912.361	914.789
115.0	833.644	838.224	842.804	847.384	851.964
117.5	750.822	757.891	764.960	772.028	779.097
120.0	680.246	686.557	692.867	699.178	705.488
122.5	652.681	666.999	681.317	695.635	709.953
125.0	605.899	620.846	635.794	650.741	665.689
127.5	564.969	583.155	601.342	619.528	637.715
130.0	499.832	517.153	534.474	551.795	569.116
132.5	433.894	447.813	461.732	475.651	489.570
135.0	383.618	394.277	404.936	415.596	426.255
137.5	348.445	357.475	366.505	375.535	384.566
140.0	305.467	313.120	320.773	328.426	336.079
142.5	264.302	270.645	276.987	283.330	289.672
145.0	237.074	242.016	246.957	251.899	256.841
147.5	213.263	216.455	219.646	222.837	226.029
150.0	194.325	197.282	200.240	203.197	206.154
152.5	176.672	179.383	182.094	184.806	187.517
155.0	158.826	161.504	164.182	166.860	169.538
157.5	134.254	137.162	140.069	142.977	145.884
160.0	98.159	101.795	105.431	109.067	112.703
162.5	56.121	58.726	61.330	63.934	66.538
165.0	18.936	21.119	23.301	25.484	27.666
167.5	6.023	5.982	5.942	5.901	5.861
170.0	5.937	5.905	5.873	5.841	5.809
172.5	5.961	5.931	5.901	5.870	5.840
175.0	6.202	6.173	6.144	6.116	6.087
177.5	6.245	6.206	6.166	6.127	6.087
180.0	5.000	5.000	5.000	5.000	5.000

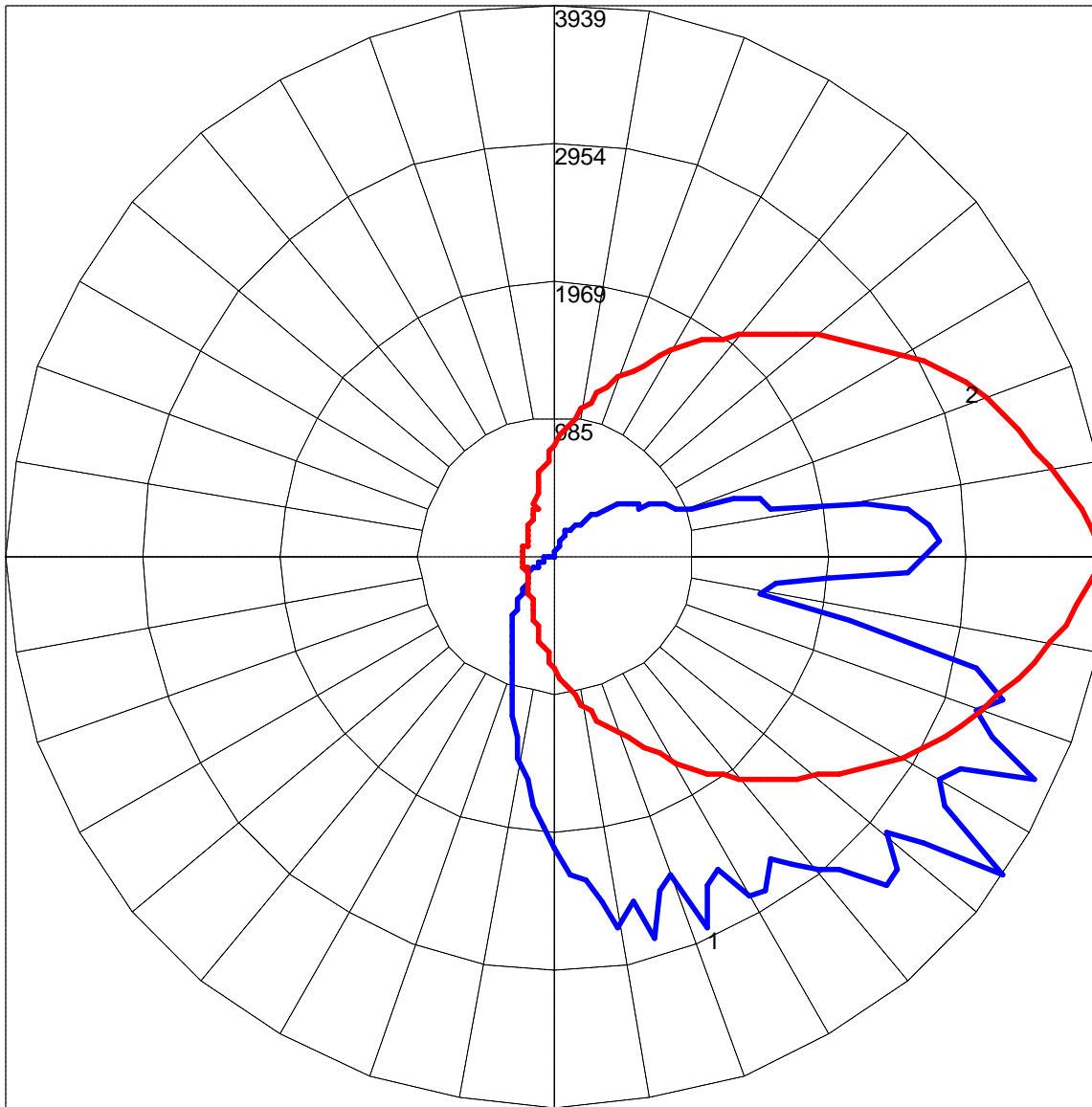
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

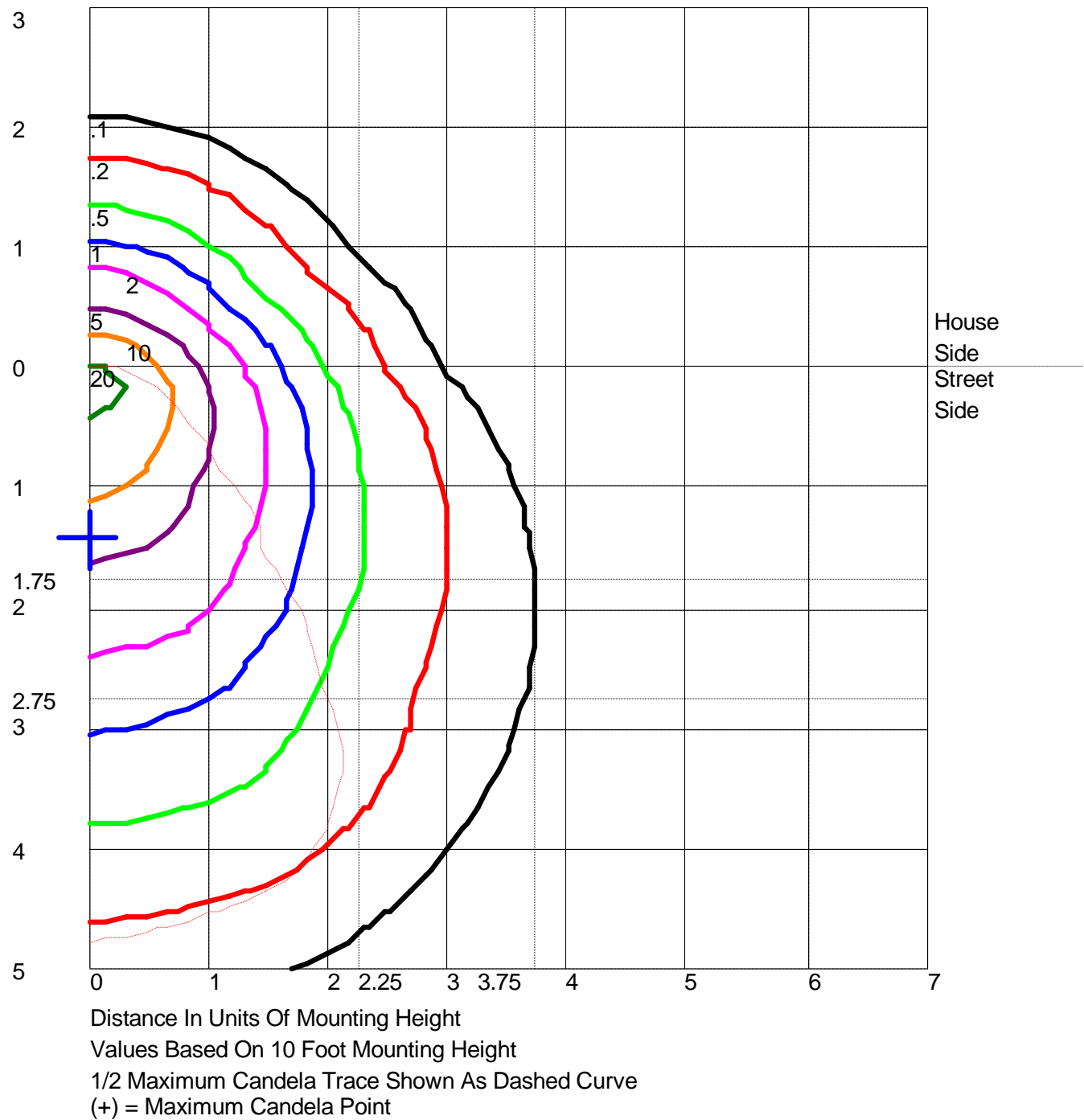
	Lumens	Percent Of Luminaire
Downward Street Side	6056.5	65.6
Downward House Side	1302.9	14.1
Downward Total	7359.4	79.7
Upward Street Side	1800.0	19.5
Upward House Side	75.8	0.8
Upward Total	1875.8	20.3
Total Flux	9235.2	100.0

POLAR GRAPH

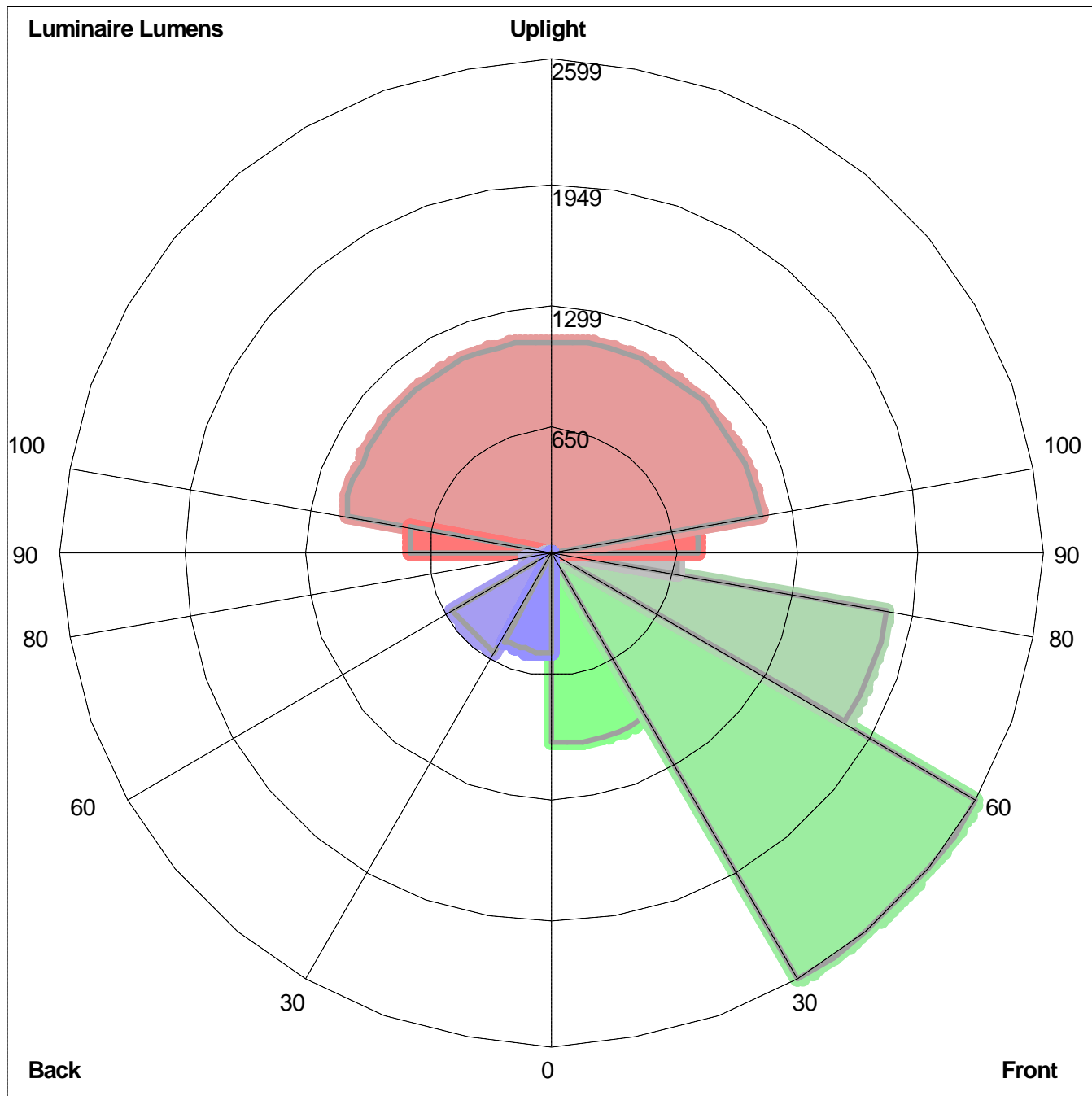


Maximum Candela = 3938.679 Located At Horizontal Angle = 360, Vertical Angle = 55
1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1004.6, Medium=2598.9, High=1793.9, Very High=659.2
Back: Low=534.6, Medium=599.0, High=146.2, Very High=23.0
Uplight: Low=763.2, High=1112.6

BUG Rating : B2-U5-G4