



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]DCL-200-90-100W-50K-8-3PC
[TESTLAB]LSI INDUSTRIES, INC
[TESTDATE]2015-08-19
[ISSUE DATE]2016-05-09
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]SFCL-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 II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10951
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	101.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	4182.549
Maximum Candela Angle	337.5H 7.5V
Maximum Candela (<90 Degrees Vertical)	4182.549
Maximum Candela Angle (<90 Degrees Vertical)	337.5H 7.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	216.1 (2.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1662.8	N.A.	15.2
FM - Front-Medium (30-60)	3299.5	N.A.	30.1
FH - Front-High (60-80)	879.2	N.A.	8.0
FVH - Front-Very High (80-90)	33.5	N.A.	0.3
BL - Back-Low (0-30)	1590.5	N.A.	14.5
BM - Back-Medium (30-60)	2848.1	N.A.	26.0
BH - Back-High (60-80)	601.9	N.A.	5.5
BVH - Back-Very High (80-90)	23.7	N.A.	0.2
UL - Uplight-Low (90-100)	< 0.05	N.A.	0.0
UH - Uplight-High (100-180)	12.2	N.A.	0.1
Total	10951.4	N.A.	100.0
BUG Rating	B3-U2-G2		

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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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4176.176	4175.961	4175.746	4175.532	4175.317	4175.102	4174.888	4174.673	4174.458	4174.244
5.0	4175.556	4175.425	4175.295	4175.164	4175.033	4174.903	4174.772	4174.641	4174.511	4174.380
7.5	4160.793	4161.848	4162.902	4163.957	4165.012	4166.066	4167.121	4168.176	4169.230	4170.285
10.0	4135.047	4136.875	4138.703	4140.531	4142.359	4144.188	4146.016	4147.844	4149.672	4151.500
12.5	4104.733	4107.752	4110.771	4113.789	4116.808	4119.827	4122.846	4125.864	4128.883	4131.902
15.0	4094.191	4095.600	4097.010	4098.419	4099.828	4101.238	4102.647	4104.056	4105.466	4106.875
17.5	4068.718	4067.695	4066.673	4065.650	4064.628	4063.605	4062.583	4061.560	4060.538	4059.515
20.0	4027.674	4025.420	4023.166	4020.912	4018.658	4016.404	4014.150	4011.896	4009.642	4007.388
22.5	3973.599	3971.732	3969.865	3967.999	3966.132	3964.265	3962.399	3960.532	3958.665	3956.799
25.0	3912.384	3911.539	3910.695	3909.850	3909.005	3908.161	3907.316	3906.471	3905.627	3904.782
27.5	3849.085	3846.957	3844.830	3842.702	3840.575	3838.448	3836.320	3834.193	3832.065	3829.938
30.0	3766.633	3763.856	3761.080	3758.303	3755.526	3752.750	3749.973	3747.196	3744.420	3741.643
32.5	3673.021	3670.163	3667.306	3664.449	3661.592	3658.735	3655.878	3653.020	3650.163	3647.306
35.0	3571.648	3570.058	3568.468	3566.878	3565.288	3563.697	3562.107	3560.517	3558.927	3557.337
37.5	3470.812	3468.038	3465.264	3462.490	3459.717	3456.943	3454.169	3451.395	3448.622	3445.848
40.0	3358.530	3356.690	3354.850	3353.010	3351.170	3349.331	3347.491	3345.651	3343.811	3341.971
42.5	3247.445	3244.791	3242.138	3239.484	3236.831	3234.177	3231.523	3228.870	3226.216	3223.563
45.0	3118.468	3115.222	3111.977	3108.731	3105.485	3102.240	3098.994	3095.748	3092.503	3089.257
47.5	2975.264	2972.903	2970.541	2968.180	2965.819	2963.457	2961.096	2958.735	2956.373	2954.012
50.0	2815.018	2813.266	2811.513	2809.761	2808.009	2806.256	2804.504	2802.752	2800.999	2799.247
52.5	2617.996	2618.435	2618.875	2619.314	2619.753	2620.192	2620.632	2621.071	2621.510	2621.950
55.0	2397.255	2398.702	2400.148	2401.595	2403.042	2404.488	2405.935	2407.382	2408.828	2410.275
57.5	2135.610	2138.933	2142.255	2145.578	2148.901	2152.223	2155.546	2158.869	2162.191	2165.514
60.0	1858.584	1861.380	1864.177	1866.973	1869.770	1872.566	1875.363	1878.159	1880.956	1883.752
62.5	1571.787	1573.273	1574.759	1576.246	1577.732	1579.218	1580.705	1582.191	1583.678	1585.164
65.0	1276.516	1278.415	1280.315	1282.214	1284.113	1286.013	1287.912	1289.811	1291.711	1293.610
67.5	1000.939	1003.408	1005.877	1008.346	1010.816	1013.285	1015.754	1018.223	1020.693	1023.162
70.0	759.307	761.827	764.347	766.867	769.387	771.907	774.427	776.947	779.467	781.987
72.5	555.083	557.677	560.271	562.865	565.459	568.053	570.647	573.241	575.835	578.429
75.0	383.649	386.198	388.747	391.296	393.845	396.395	398.944	401.493	404.042	406.591
77.5	249.795	251.991	254.186	256.382	258.578	260.773	262.969	265.165	267.360	269.556
80.0	143.514	145.648	147.782	149.915	152.049	154.183	156.317	158.450	160.584	162.718
82.5	66.260	67.861	69.461	71.062	72.663	74.263	75.864	77.465	79.065	80.666
85.0	18.070	18.989	19.909	20.828	21.747	22.667	23.586	24.505	25.425	26.344
87.5	2.126	2.262	2.398	2.534	2.670	2.805	2.941	3.077	3.213	3.349
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.231	0.237	0.244	0.250	0.257	0.263	0.269	0.276	0.282	0.289
120.0	0.346	0.373	0.400	0.427	0.454	0.480	0.507	0.534	0.561	0.588
122.5	0.693	0.690	0.688	0.686	0.683	0.681	0.679	0.676	0.674	0.672
125.0	1.155	1.118	1.080	1.043	1.006	0.968	0.931	0.894	0.856	0.819
127.5	1.370	1.335	1.300	1.265	1.230	1.195	1.160	1.125	1.090	1.055
130.0	1.575	1.555	1.535	1.515	1.495	1.476	1.456	1.436	1.416	1.396

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132.5	1.748	1.742	1.736	1.731	1.725	1.719	1.713	1.707	1.701	1.696
135.0	2.152	2.140	2.129	2.117	2.105	2.094	2.082	2.070	2.059	2.047
137.5	2.305	2.299	2.294	2.289	2.284	2.278	2.273	2.268	2.263	2.258
140.0	2.383	2.391	2.399	2.408	2.416	2.424	2.432	2.441	2.449	2.457
142.5	2.741	2.729	2.717	2.705	2.694	2.682	2.670	2.658	2.647	2.635
145.0	3.202	3.178	3.153	3.129	3.104	3.080	3.055	3.031	3.006	2.982
147.5	3.413	3.391	3.370	3.349	3.328	3.307	3.286	3.265	3.244	3.223
150.0	3.559	3.535	3.510	3.486	3.461	3.437	3.412	3.388	3.363	3.339
152.5	3.990	3.956	3.923	3.890	3.857	3.823	3.790	3.757	3.724	3.691
155.0	4.137	4.126	4.116	4.105	4.095	4.084	4.074	4.063	4.053	4.042
157.5	4.400	4.392	4.384	4.377	4.369	4.361	4.354	4.346	4.339	4.331
160.0	4.662	4.658	4.655	4.651	4.648	4.644	4.641	4.637	4.634	4.630
162.5	4.982	4.978	4.974	4.970	4.966	4.961	4.957	4.953	4.949	4.945
165.0	5.187	5.196	5.206	5.215	5.224	5.234	5.243	5.252	5.262	5.271
167.5	5.565	5.564	5.563	5.563	5.562	5.562	5.561	5.561	5.560	5.560
170.0	5.995	5.993	5.990	5.988	5.986	5.983	5.981	5.979	5.976	5.974
172.5	6.122	6.115	6.109	6.102	6.096	6.089	6.083	6.076	6.070	6.064
175.0	6.468	6.477	6.487	6.496	6.505	6.515	6.524	6.533	6.543	6.552
177.5	6.652	6.649	6.646	6.643	6.640	6.637	6.634	6.631	6.628	6.625
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4173.911	4173.579	4173.246	4172.914	4172.581	4172.249	4171.916	4171.584	4171.251	4169.351
5.0	4173.043	4171.706	4170.369	4169.032	4167.695	4166.358	4165.021	4163.684	4162.347	4159.994
7.5	4167.469	4164.653	4161.838	4159.022	4156.206	4153.390	4150.575	4147.759	4144.943	4142.161
10.0	4148.817	4146.133	4143.450	4140.767	4138.083	4135.400	4132.717	4130.033	4127.350	4124.705
12.5	4127.906	4123.910	4119.915	4115.919	4111.923	4107.927	4103.931	4099.935	4095.940	4092.853
15.0	4101.603	4096.331	4091.059	4085.787	4080.514	4075.242	4069.970	4064.698	4059.426	4056.990
17.5	4056.026	4052.536	4049.047	4045.557	4042.068	4038.578	4035.089	4031.599	4028.110	4024.457
20.0	4004.575	4001.762	3998.949	3996.136	3993.324	3990.511	3987.698	3984.885	3982.072	3978.325
22.5	3953.280	3949.762	3946.244	3942.726	3939.208	3935.690	3932.172	3928.654	3925.136	3919.740
25.0	3898.347	3891.911	3885.476	3879.041	3872.605	3866.170	3859.735	3853.299	3846.864	3841.964
27.5	3823.984	3818.030	3812.076	3806.122	3800.167	3794.213	3788.259	3782.305	3776.351	3771.043
30.0	3736.805	3731.967	3727.129	3722.291	3717.452	3712.614	3707.776	3702.938	3698.100	3690.960
32.5	3641.820	3636.335	3630.849	3625.363	3619.878	3614.392	3608.906	3603.421	3597.935	3590.874
35.0	3550.849	3544.361	3537.873	3531.385	3524.898	3518.410	3511.922	3505.434	3498.946	3491.418
37.5	3439.703	3433.557	3427.412	3421.266	3415.121	3408.975	3402.830	3396.684	3390.539	3383.684
40.0	3334.278	3326.585	3318.892	3311.199	3303.506	3295.813	3288.120	3280.427	3272.734	3265.110
42.5	3214.896	3206.229	3197.563	3188.896	3180.230	3171.563	3162.897	3154.230	3145.564	3137.833
45.0	3081.228	3073.199	3065.170	3057.141	3049.112	3041.083	3033.054	3025.025	3016.996	3008.427
47.5	2945.349	2936.686	2928.023	2919.360	2910.696	2902.033	2893.370	2884.707	2876.044	2866.946
50.0	2790.197	2781.147	2772.098	2763.048	2753.998	2744.948	2735.899	2726.849	2717.799	2707.850
52.5	2615.087	2608.225	2601.363	2594.500	2587.638	2580.776	2573.913	2567.051	2560.189	2548.480
55.0	2406.568	2402.862	2399.155	2395.449	2391.742	2388.036	2384.329	2380.623	2376.916	2364.710
57.5	2164.416	2163.318	2162.221	2161.123	2160.025	2158.927	2157.829	2156.731	2155.634	2142.678
60.0	1884.904	1886.055	1887.207	1888.358	1889.510	1890.661	1891.813	1892.964	1894.116	1881.629
62.5	1587.972	1590.780	1593.589	1596.397	1599.205	1602.013	1604.821	1607.629	1610.438	1600.313
65.0	1297.017	1300.423	1303.830	1307.237	1310.643	1314.050	1317.457	1320.863	1324.270	1317.150
67.5	1026.498	1029.834	1033.170	1036.506	1039.842	1043.178	1046.514	1049.850	1053.187	1049.576
70.0	785.382	788.777	792.172	795.567	798.962	802.357	805.752	809.147	812.542	811.531
72.5	581.685	584.940	588.196	591.451	594.707	597.963	601.218	604.474	607.730	608.665
75.0	410.051	413.512	416.972	420.432	423.893	427.353	430.813	434.274	437.734	439.779
77.5	273.176	276.796	280.416	284.036	287.657	291.277	294.897	298.517	302.137	304.637

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CANDELA TABULATION - (Cont.)

80.0	166.092	169.466	172.840	176.214	179.588	182.962	186.336	189.710	193.084	195.641
82.5	83.870	87.074	90.279	93.483	96.687	99.891	103.096	106.300	109.504	112.084
85.0	28.649	30.955	33.260	35.565	37.871	40.176	42.481	44.787	47.092	49.822
87.5	3.948	4.546	5.145	5.743	6.342	6.940	7.539	8.137	8.736	9.987
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.010	0.020	0.030	0.040	0.049	0.059	0.069	0.079	0.089	0.140
110.0	0.058	0.117	0.175	0.233	0.292	0.350	0.408	0.467	0.525	0.538
112.5	0.078	0.155	0.233	0.310	0.388	0.465	0.543	0.620	0.698	0.788
115.0	0.091	0.182	0.273	0.364	0.455	0.546	0.637	0.728	0.819	0.948
117.5	0.357	0.426	0.495	0.564	0.633	0.702	0.770	0.839	0.908	1.031
120.0	0.621	0.653	0.686	0.719	0.751	0.784	0.817	0.849	0.882	1.004
122.5	0.695	0.718	0.742	0.765	0.788	0.812	0.835	0.859	0.882	1.004
125.0	0.838	0.856	0.875	0.894	0.912	0.931	0.950	0.968	0.987	1.098
127.5	1.071	1.086	1.102	1.118	1.134	1.149	1.165	1.181	1.197	1.281
130.0	1.390	1.384	1.379	1.373	1.367	1.361	1.356	1.350	1.344	1.409
132.5	1.676	1.656	1.636	1.616	1.596	1.577	1.557	1.537	1.517	1.569
135.0	2.002	1.956	1.911	1.865	1.820	1.774	1.729	1.683	1.638	1.702
137.5	2.204	2.151	2.098	2.045	1.992	1.939	1.886	1.833	1.780	1.841
140.0	2.423	2.389	2.355	2.321	2.288	2.254	2.220	2.186	2.152	2.179
142.5	2.605	2.576	2.546	2.516	2.486	2.457	2.427	2.397	2.368	2.393
145.0	2.949	2.917	2.884	2.851	2.819	2.786	2.753	2.721	2.688	2.695
147.5	3.208	3.194	3.179	3.165	3.150	3.136	3.121	3.107	3.092	3.096
150.0	3.338	3.337	3.335	3.334	3.333	3.332	3.330	3.329	3.328	3.328
152.5	3.676	3.661	3.647	3.632	3.618	3.603	3.589	3.574	3.560	3.550
155.0	4.054	4.065	4.077	4.089	4.100	4.112	4.124	4.135	4.147	4.114
157.5	4.317	4.303	4.289	4.275	4.261	4.247	4.233	4.219	4.205	4.202
160.0	4.602	4.574	4.546	4.518	4.490	4.462	4.434	4.406	4.378	4.378
162.5	4.911	4.877	4.844	4.810	4.776	4.742	4.709	4.675	4.641	4.629
165.0	5.244	5.217	5.190	5.163	5.137	5.110	5.083	5.056	5.029	5.016
167.5	5.533	5.506	5.479	5.452	5.425	5.399	5.372	5.345	5.318	5.312
170.0	5.920	5.867	5.813	5.759	5.706	5.652	5.598	5.545	5.491	5.498
172.5	6.036	6.009	5.981	5.954	5.927	5.899	5.872	5.844	5.817	5.836
175.0	6.518	6.484	6.450	6.416	6.383	6.349	6.315	6.281	6.247	6.235
177.5	6.600	6.575	6.550	6.525	6.500	6.475	6.450	6.425	6.400	6.384
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

Vert. Angles Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4167.451	4165.551	4163.651	4161.751	4159.851	4157.951	4156.051	4154.152	4153.959	4153.767
5.0	4157.641	4155.287	4152.934	4150.581	4148.228	4145.874	4143.521	4141.168	4140.395	4139.621
7.5	4139.378	4136.596	4133.813	4131.031	4128.248	4125.466	4122.683	4119.901	4119.566	4119.232
10.0	4122.060	4119.416	4116.771	4114.126	4111.481	4108.837	4106.192	4103.547	4100.969	4098.390
12.5	4089.767	4086.680	4083.594	4080.507	4077.421	4074.334	4071.248	4068.162	4063.854	4059.546
15.0	4054.554	4052.118	4049.682	4047.246	4044.810	4042.374	4039.938	4037.502	4032.598	4027.695
17.5	4020.805	4017.153	4013.500	4009.848	4006.196	4002.544	3998.891	3995.239	3989.392	3983.546
20.0	3974.577	3970.830	3967.083	3963.335	3959.588	3955.841	3952.093	3948.346	3941.222	3934.099
22.5	3914.343	3908.947	3903.550	3898.154	3892.758	3887.361	3881.965	3876.569	3867.557	3858.545
25.0	3837.064	3832.164	3827.264	3822.364	3817.464	3812.564	3807.664	3802.764	3792.273	3781.783

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

27.5	3765.735	3760.428	3755.120	3749.812	3744.504	3739.197	3733.889	3728.581	3719.427	3710.274
30.0	3683.820	3676.680	3669.540	3662.400	3655.260	3648.120	3640.980	3633.840	3627.133	3620.426
32.5	3583.812	3576.751	3569.690	3562.629	3555.567	3548.506	3541.445	3534.384	3526.245	3518.106
35.0	3483.889	3476.361	3468.832	3461.304	3453.775	3446.247	3438.718	3431.190	3421.717	3412.243
37.5	3376.828	3369.973	3363.118	3356.262	3349.407	3342.552	3335.696	3328.841	3316.848	3304.855
40.0	3257.486	3249.862	3242.238	3234.613	3226.989	3219.365	3211.741	3204.117	3192.395	3180.674
42.5	3130.103	3122.373	3114.642	3106.912	3099.182	3091.451	3083.721	3075.991	3063.477	3050.964
45.0	2999.858	2991.289	2982.720	2974.150	2965.581	2957.012	2948.443	2939.874	2927.147	2914.420
47.5	2857.848	2848.749	2839.651	2830.553	2821.455	2812.356	2803.258	2794.160	2780.326	2766.493
50.0	2697.900	2687.951	2678.002	2668.052	2658.103	2648.154	2638.204	2628.255	2614.409	2600.563
52.5	2536.771	2525.063	2513.354	2501.645	2489.937	2478.228	2466.519	2454.811	2440.701	2426.591
55.0	2352.505	2340.299	2328.093	2315.888	2303.682	2291.476	2279.271	2267.065	2251.550	2236.034
57.5	2129.723	2116.768	2103.813	2090.858	2077.902	2064.947	2051.992	2039.037	2022.549	2006.061
60.0	1869.142	1856.655	1844.168	1831.682	1819.195	1806.708	1794.221	1781.734	1765.094	1748.454
62.5	1590.188	1580.063	1569.938	1559.813	1549.688	1539.563	1529.438	1519.313	1502.912	1486.511
65.0	1310.030	1302.910	1295.790	1288.669	1281.549	1274.429	1267.309	1260.189	1246.300	1232.411
67.5	1045.965	1042.354	1038.743	1035.132	1031.522	1027.911	1024.300	1020.689	1009.501	998.312
70.0	810.519	809.508	808.496	807.485	806.473	805.462	804.450	803.439	794.660	785.881
72.5	609.600	610.535	611.470	612.405	613.340	614.275	615.210	616.145	609.345	602.544
75.0	441.824	443.870	445.915	447.960	450.005	452.051	454.096	456.141	450.939	445.737
77.5	307.136	309.636	312.135	314.635	317.135	319.634	322.134	324.634	320.672	316.710
80.0	198.199	200.756	203.313	205.871	208.428	210.985	213.543	216.100	213.423	210.745
82.5	114.664	117.244	119.824	122.405	124.985	127.565	130.145	132.725	131.456	130.188
85.0	52.552	55.282	58.012	60.742	63.472	66.202	68.932	71.662	71.257	70.852
87.5	11.237	12.488	13.739	14.989	16.240	17.491	18.741	19.992	19.877	19.761
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.026
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.065
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.117
107.5	0.192	0.243	0.294	0.346	0.397	0.448	0.500	0.551	0.647	0.743
110.0	0.551	0.563	0.576	0.589	0.602	0.614	0.627	0.640	0.763	0.885
112.5	0.879	0.969	1.060	1.150	1.240	1.331	1.421	1.512	1.595	1.678
115.0	1.078	1.207	1.337	1.466	1.596	1.725	1.855	1.984	2.027	2.070
117.5	1.154	1.277	1.400	1.523	1.646	1.769	1.892	2.016	2.055	2.095
120.0	1.127	1.249	1.372	1.494	1.617	1.739	1.862	1.984	2.034	2.084
122.5	1.127	1.249	1.372	1.494	1.617	1.739	1.862	1.984	2.040	2.096
125.0	1.209	1.319	1.430	1.541	1.652	1.762	1.873	1.984	2.066	2.147
127.5	1.366	1.450	1.535	1.620	1.704	1.789	1.873	1.958	2.059	2.160
130.0	1.475	1.540	1.605	1.671	1.736	1.801	1.867	1.932	2.071	2.210
132.5	1.621	1.673	1.725	1.776	1.828	1.880	1.932	1.984	2.163	2.341
135.0	1.766	1.830	1.894	1.959	2.023	2.087	2.151	2.215	2.401	2.586
137.5	1.903	1.965	2.027	2.089	2.151	2.212	2.274	2.336	2.527	2.719
140.0	2.206	2.233	2.260	2.286	2.313	2.340	2.367	2.394	2.597	2.800
142.5	2.419	2.445	2.470	2.496	2.522	2.547	2.573	2.599	2.802	3.006
145.0	2.702	2.709	2.716	2.723	2.730	2.737	2.744	2.751	2.992	3.234
147.5	3.099	3.103	3.106	3.110	3.113	3.117	3.120	3.124	3.339	3.555
150.0	3.328	3.328	3.328	3.328	3.328	3.328	3.328	3.328	3.563	3.797
152.5	3.541	3.532	3.522	3.513	3.504	3.494	3.485	3.476	3.706	3.937
155.0	4.082	4.049	4.016	3.984	3.951	3.918	3.886	3.853	4.042	4.231
157.5	4.199	4.196	4.193	4.191	4.188	4.185	4.182	4.179	4.329	4.479
160.0	4.378	4.378	4.378	4.378	4.378	4.378	4.378	4.378	4.510	4.642
162.5	4.616	4.604	4.592	4.580	4.567	4.555	4.543	4.531	4.716	4.902
165.0	5.003	4.991	4.978	4.965	4.952	4.940	4.927	4.914	5.115	5.315

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

167.5	5.305	5.299	5.292	5.286	5.279	5.273	5.266	5.260	5.428	5.596
170.0	5.505	5.512	5.519	5.526	5.533	5.540	5.547	5.554	5.709	5.864
172.5	5.855	5.875	5.894	5.913	5.932	5.952	5.971	5.990	6.090	6.191
175.0	6.224	6.212	6.200	6.189	6.177	6.165	6.154	6.142	6.212	6.282
177.5	6.368	6.352	6.337	6.321	6.305	6.289	6.274	6.258	6.290	6.321
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4153.574	4153.382	4153.189	4152.997	4152.804	4152.612	4152.419	4151.243	4150.067	4148.891
5.0	4138.848	4138.074	4137.301	4136.527	4135.754	4134.980	4134.207	4133.228	4132.249	4131.270
7.5	4118.898	4118.563	4118.229	4117.895	4117.561	4117.226	4116.892	4114.915	4112.937	4110.960
10.0	4095.812	4093.234	4090.655	4088.077	4085.499	4082.920	4080.342	4078.014	4075.687	4073.359
12.5	4055.238	4050.930	4046.622	4042.314	4038.006	4033.698	4029.391	4027.706	4026.021	4024.337
15.0	4022.791	4017.888	4012.984	4008.081	4003.177	3998.274	3993.370	3990.934	3988.498	3986.062
17.5	3977.699	3971.852	3966.005	3960.159	3954.312	3948.465	3942.619	3938.490	3934.361	3930.232
20.0	3926.975	3919.851	3912.728	3905.604	3898.480	3891.357	3884.233	3878.171	3872.109	3866.047
22.5	3849.533	3840.521	3831.509	3822.497	3813.485	3804.473	3795.461	3790.536	3785.611	3780.686
25.0	3771.292	3760.801	3750.311	3739.820	3729.329	3718.839	3708.348	3704.100	3699.852	3695.604
27.5	3701.120	3691.967	3682.813	3673.659	3664.506	3655.352	3646.199	3638.042	3629.885	3621.728
30.0	3613.718	3607.011	3600.304	3593.597	3586.889	3580.182	3573.475	3562.531	3551.586	3540.642
32.5	3509.968	3501.829	3493.690	3485.552	3477.413	3469.274	3461.136	3450.915	3440.694	3430.474
35.0	3402.770	3393.297	3383.823	3374.350	3364.877	3355.403	3345.930	3335.274	3324.617	3313.961
37.5	3292.863	3280.870	3268.877	3256.884	3244.892	3232.899	3220.906	3211.381	3201.856	3192.330
40.0	3168.952	3157.231	3145.509	3133.788	3122.066	3110.345	3098.623	3087.016	3075.409	3063.802
42.5	3038.451	3025.938	3013.425	3000.912	2988.399	2975.886	2963.373	2951.225	2939.078	2926.931
45.0	2901.692	2888.965	2876.238	2863.511	2850.783	2838.056	2825.329	2811.965	2798.601	2785.237
47.5	2752.659	2738.825	2724.991	2711.158	2697.324	2683.490	2669.657	2656.350	2643.043	2629.736
50.0	2586.717	2572.871	2559.025	2545.179	2531.333	2517.487	2503.641	2489.752	2475.863	2461.973
52.5	2412.482	2398.372	2384.262	2370.153	2356.043	2341.933	2327.824	2312.662	2297.501	2282.339
55.0	2220.519	2205.003	2189.488	2173.972	2158.457	2142.941	2127.426	2110.520	2093.614	2076.707
57.5	1989.573	1973.085	1956.597	1940.109	1923.621	1907.133	1890.645	1874.046	1857.448	1840.849
60.0	1731.814	1715.174	1698.533	1681.893	1665.253	1648.613	1631.973	1615.565	1599.157	1582.749
62.5	1470.110	1453.709	1437.308	1420.907	1404.506	1388.105	1371.704	1357.117	1342.529	1327.942
65.0	1218.521	1204.632	1190.743	1176.854	1162.964	1149.075	1135.186	1122.019	1108.852	1095.685
67.5	987.124	975.936	964.747	953.559	942.371	931.182	919.994	908.097	896.200	884.303
70.0	777.101	768.322	759.543	750.764	741.984	733.205	724.426	714.024	703.622	693.220
72.5	595.744	588.943	582.143	575.342	568.542	561.741	554.941	545.892	536.843	527.795
75.0	440.534	435.332	430.130	424.928	419.725	414.523	409.321	401.954	394.586	387.219
77.5	312.748	308.786	304.824	300.862	296.900	292.938	288.976	283.298	277.620	271.943
80.0	208.068	205.390	202.713	200.035	197.358	194.680	192.003	187.848	183.694	179.539
82.5	128.919	127.650	126.381	125.113	123.844	122.575	121.307	118.350	115.393	112.436
85.0	70.448	70.043	69.638	69.233	68.829	68.424	68.019	65.945	63.870	61.796
87.5	19.646	19.530	19.415	19.299	19.184	19.068	18.953	18.087	17.221	16.355
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.013	0.019
100.0	0.038	0.051	0.064	0.077	0.089	0.102	0.115	0.115	0.115	0.115
102.5	0.098	0.131	0.163	0.196	0.229	0.261	0.294	0.316	0.338	0.361
105.0	0.175	0.233	0.292	0.350	0.408	0.467	0.525	0.570	0.616	0.661
107.5	0.840	0.936	1.032	1.128	1.225	1.321	1.417	1.389	1.361	1.333
110.0	1.008	1.130	1.253	1.375	1.498	1.620	1.743	1.704	1.666	1.627
112.5	1.762	1.845	1.929	2.012	2.096	2.179	2.263	2.208	2.154	2.100

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CANDELA TABULATION - (Cont.)

115.0	2.114	2.157	2.200	2.243	2.287	2.330	2.373	2.316	2.259	2.201
117.5	2.135	2.174	2.214	2.254	2.294	2.333	2.373	2.345	2.317	2.289
120.0	2.135	2.185	2.235	2.285	2.336	2.386	2.436	2.430	2.424	2.418
122.5	2.152	2.208	2.264	2.320	2.376	2.432	2.488	2.482	2.476	2.471
125.0	2.229	2.311	2.392	2.474	2.556	2.637	2.719	2.707	2.696	2.684
127.5	2.261	2.362	2.463	2.564	2.665	2.766	2.867	2.858	2.850	2.842
130.0	2.348	2.487	2.626	2.765	2.903	3.042	3.181	3.164	3.146	3.129
132.5	2.520	2.698	2.877	3.055	3.234	3.412	3.591	3.550	3.510	3.470
135.0	2.772	2.957	3.143	3.328	3.514	3.699	3.885	3.866	3.848	3.829
137.5	2.910	3.101	3.293	3.484	3.675	3.867	4.058	4.034	4.009	3.985
140.0	3.003	3.206	3.409	3.612	3.815	4.018	4.221	4.217	4.214	4.210
142.5	3.209	3.413	3.616	3.820	4.023	4.227	4.431	4.429	4.427	4.425
145.0	3.475	3.717	3.958	4.200	4.441	4.683	4.924	4.887	4.849	4.812
147.5	3.771	3.987	4.203	4.419	4.634	4.850	5.066	5.049	5.031	5.014
150.0	4.032	4.266	4.501	4.735	4.970	5.204	5.439	5.423	5.406	5.390
152.5	4.168	4.399	4.630	4.861	5.092	5.323	5.554	5.557	5.560	5.563
155.0	4.420	4.609	4.798	4.987	5.176	5.365	5.554	5.608	5.661	5.715
157.5	4.629	4.779	4.928	5.078	5.228	5.378	5.528	5.592	5.655	5.719
160.0	4.774	4.906	5.037	5.169	5.301	5.433	5.565	5.624	5.684	5.743
162.5	5.087	5.273	5.458	5.644	5.829	6.015	6.200	6.192	6.184	6.176
165.0	5.516	5.717	5.917	6.118	6.319	6.519	6.720	6.677	6.634	6.590
167.5	5.764	5.932	6.100	6.268	6.436	6.604	6.772	6.759	6.745	6.732
170.0	6.020	6.175	6.330	6.485	6.641	6.796	6.951	6.915	6.879	6.842
172.5	6.291	6.391	6.492	6.592	6.692	6.793	6.893	6.863	6.833	6.804
175.0	6.352	6.422	6.492	6.562	6.632	6.702	6.772	6.756	6.739	6.723
177.5	6.353	6.384	6.416	6.447	6.479	6.510	6.542	6.531	6.521	6.510
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4147.715	4146.539	4145.363	4144.187	4143.011	4141.835	4141.315	4140.794	4140.274	4139.754
5.0	4130.291	4129.313	4128.334	4127.355	4126.376	4125.397	4123.609	4121.820	4120.032	4118.243
7.5	4108.982	4107.005	4105.027	4103.050	4101.072	4099.095	4096.424	4093.754	4091.083	4088.413
10.0	4071.032	4068.704	4066.377	4064.049	4061.722	4059.394	4056.539	4053.684	4050.830	4047.975
12.5	4022.652	4020.967	4019.283	4017.598	4015.913	4014.229	4010.682	4007.135	4003.589	4000.042
15.0	3983.626	3981.190	3978.754	3976.318	3973.882	3971.446	3966.306	3961.165	3956.025	3950.885
17.5	3926.103	3921.974	3917.846	3913.717	3909.588	3905.459	3901.519	3897.578	3893.638	3889.697
20.0	3859.985	3853.923	3847.861	3841.799	3835.737	3829.675	3825.542	3821.408	3817.275	3813.141
22.5	3775.761	3770.835	3765.910	3760.985	3756.060	3751.135	3745.618	3740.102	3734.585	3729.069
25.0	3691.356	3687.109	3682.861	3678.613	3674.365	3670.117	3663.879	3657.641	3651.403	3645.165
27.5	3613.571	3605.415	3597.258	3589.101	3580.944	3572.788	3566.725	3560.664	3554.602	3548.540
30.0	3529.697	3518.753	3507.808	3496.864	3485.919	3474.975	3467.318	3459.661	3452.004	3444.347
32.5	3420.253	3410.033	3399.812	3389.592	3379.371	3369.151	3361.025	3352.900	3344.775	3336.650
35.0	3303.305	3292.648	3281.992	3271.336	3260.679	3250.023	3240.937	3231.851	3222.765	3213.679
37.5	3182.805	3173.280	3163.755	3154.229	3144.704	3135.179	3125.499	3115.819	3106.140	3096.460
40.0	3052.195	3040.587	3028.980	3017.373	3005.766	2994.159	2984.698	2975.238	2965.777	2956.317
42.5	2914.783	2902.636	2890.489	2878.342	2866.194	2854.047	2843.011	2831.976	2820.940	2809.905
45.0	2771.873	2758.508	2745.144	2731.780	2718.416	2705.052	2693.960	2682.869	2671.777	2660.686
47.5	2616.429	2603.122	2589.815	2576.508	2563.201	2549.894	2536.745	2523.596	2510.447	2497.298
50.0	2448.084	2434.195	2420.306	2406.416	2392.527	2378.638	2364.558	2350.477	2336.397	2322.316
52.5	2267.178	2252.017	2236.855	2221.694	2206.532	2191.371	2176.524	2161.677	2146.830	2131.983
55.0	2059.801	2042.895	2025.989	2009.082	1992.176	1975.270	1960.337	1945.403	1930.470	1915.537
57.5	1824.250	1807.651	1791.052	1774.454	1757.855	1741.256	1725.535	1709.813	1694.092	1678.371
60.0	1566.341	1549.933	1533.525	1517.117	1500.709	1484.301	1468.729	1453.158	1437.586	1422.015

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

62.5	1313.354	1298.767	1284.179	1269.592	1255.004	1240.417	1224.965	1209.512	1194.060	1178.607
65.0	1082.518	1069.351	1056.184	1043.017	1029.850	1016.683	1001.219	985.755	970.291	954.827
67.5	872.406	860.508	848.611	836.714	824.817	812.920	798.361	783.801	769.242	754.682
70.0	682.818	672.416	662.014	651.612	641.210	630.808	617.710	604.612	591.514	578.416
72.5	518.746	509.697	500.649	491.600	482.551	473.503	462.423	451.343	440.263	429.183
75.0	379.851	372.484	365.116	357.749	350.381	343.014	334.123	325.232	316.340	307.449
77.5	266.265	260.588	254.910	249.233	243.555	237.878	231.164	224.452	217.739	211.026
80.0	175.385	171.230	167.076	162.921	158.767	154.612	149.786	144.959	140.133	135.306
82.5	109.479	106.522	103.565	100.608	97.651	94.694	91.348	88.002	84.656	81.310
85.0	59.722	57.647	55.573	53.499	51.424	49.350	47.246	45.143	43.039	40.936
87.5	15.490	14.624	13.758	12.892	12.027	11.161	10.569	9.977	9.385	8.793
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.026	0.032	0.038	0.045	0.051	0.058	0.051	0.045	0.038	0.032
100.0	0.115	0.115	0.115	0.115	0.115	0.115	0.141	0.166	0.192	0.218
102.5	0.383	0.405	0.427	0.449	0.471	0.494	0.494	0.494	0.494	0.494
105.0	0.707	0.752	0.798	0.843	0.889	0.934	0.934	0.934	0.934	0.934
107.5	1.305	1.277	1.249	1.221	1.193	1.166	1.175	1.184	1.193	1.203
110.0	1.589	1.550	1.512	1.473	1.435	1.396	1.390	1.384	1.379	1.373
112.5	2.046	1.991	1.937	1.883	1.829	1.775	1.746	1.717	1.689	1.660
115.0	2.144	2.087	2.030	1.972	1.915	1.858	1.834	1.809	1.785	1.760
117.5	2.261	2.233	2.205	2.177	2.149	2.121	2.083	2.045	2.007	1.969
120.0	2.412	2.407	2.401	2.395	2.389	2.383	2.352	2.320	2.289	2.257
122.5	2.465	2.459	2.453	2.448	2.442	2.436	2.418	2.400	2.382	2.364
125.0	2.672	2.661	2.649	2.637	2.626	2.614	2.595	2.577	2.558	2.539
127.5	2.834	2.826	2.818	2.809	2.801	2.793	2.774	2.756	2.737	2.718
130.0	3.111	3.094	3.076	3.059	3.041	3.024	3.012	3.001	2.989	2.977
132.5	3.430	3.389	3.349	3.309	3.269	3.229	3.236	3.244	3.251	3.259
135.0	3.810	3.792	3.773	3.754	3.736	3.717	3.699	3.682	3.664	3.647
137.5	3.960	3.936	3.911	3.887	3.862	3.838	3.832	3.827	3.822	3.817
140.0	4.207	4.203	4.200	4.196	4.193	4.189	4.183	4.177	4.172	4.166
142.5	4.424	4.422	4.420	4.418	4.417	4.415	4.404	4.393	4.382	4.371
145.0	4.775	4.737	4.700	4.663	4.625	4.588	4.565	4.541	4.518	4.495
147.5	4.996	4.979	4.961	4.944	4.926	4.909	4.888	4.867	4.846	4.825
150.0	5.374	5.357	5.341	5.325	5.308	5.292	5.273	5.255	5.236	5.217
152.5	5.566	5.569	5.572	5.575	5.578	5.581	5.572	5.564	5.556	5.548
155.0	5.769	5.822	5.876	5.930	5.983	6.037	6.014	5.990	5.967	5.944
157.5	5.782	5.846	5.909	5.973	6.036	6.100	6.093	6.086	6.079	6.072
160.0	5.803	5.862	5.922	5.981	6.041	6.100	6.121	6.142	6.163	6.184
162.5	6.167	6.159	6.151	6.143	6.135	6.127	6.168	6.209	6.251	6.292
165.0	6.547	6.504	6.461	6.417	6.374	6.331	6.366	6.401	6.436	6.471
167.5	6.718	6.705	6.692	6.678	6.665	6.652	6.663	6.675	6.687	6.698
170.0	6.806	6.770	6.734	6.697	6.661	6.625	6.640	6.655	6.671	6.686
172.5	6.774	6.744	6.714	6.685	6.655	6.625	6.633	6.641	6.650	6.658
175.0	6.707	6.690	6.674	6.658	6.641	6.625	6.633	6.641	6.650	6.658
177.5	6.500	6.489	6.479	6.468	6.458	6.447	6.453	6.459	6.465	6.470
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4139.233	4138.713	4138.193	4137.672	4137.152	4136.186	4135.220	4134.254	4133.288	4132.322
5.0	4116.455	4114.666	4112.878	4111.089	4109.301	4108.027	4106.753	4105.479	4104.205	4102.931
7.5	4085.742	4083.072	4080.401	4077.731	4075.060	4074.484	4073.907	4073.331	4072.755	4072.178

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CANDELA TABULATION - (Cont.)

10.0	4045.120	4042.265	4039.411	4036.556	4033.701	4032.675	4031.650	4030.624	4029.599	4028.573
12.5	3996.495	3992.949	3989.402	3985.855	3982.309	3981.018	3979.728	3978.438	3977.147	3975.857
15.0	3945.744	3940.604	3935.464	3930.323	3925.183	3923.050	3920.918	3918.785	3916.652	3914.520
17.5	3885.757	3881.817	3877.876	3873.936	3869.996	3866.129	3862.262	3858.395	3854.528	3850.661
20.0	3809.008	3804.874	3800.741	3796.607	3792.474	3786.928	3781.381	3775.835	3770.289	3764.742
22.5	3723.552	3718.036	3712.519	3707.003	3701.486	3697.021	3692.556	3688.092	3683.627	3679.162
25.0	3638.926	3632.688	3626.450	3620.212	3613.974	3611.002	3608.031	3605.059	3602.088	3599.116
27.5	3542.478	3536.416	3530.354	3524.292	3518.230	3514.975	3511.720	3508.465	3505.210	3501.955
30.0	3436.691	3429.034	3421.377	3413.720	3406.063	3403.002	3399.940	3396.879	3393.818	3390.756
32.5	3328.524	3320.399	3312.274	3304.149	3296.024	3290.384	3284.744	3279.105	3273.465	3267.825
35.0	3204.593	3195.507	3186.421	3177.335	3168.249	3162.836	3157.422	3152.009	3146.596	3141.182
37.5	3086.780	3077.100	3067.420	3057.740	3048.061	3041.746	3035.431	3029.117	3022.802	3016.488
40.0	2946.856	2937.396	2927.935	2918.475	2909.014	2903.261	2897.508	2891.756	2886.003	2880.250
42.5	2798.869	2787.834	2776.798	2765.763	2754.727	2749.008	2743.289	2737.570	2731.851	2726.132
45.0	2649.594	2638.503	2627.411	2616.320	2605.228	2598.369	2591.510	2584.652	2577.793	2570.934
47.5	2484.149	2471.000	2457.851	2444.702	2431.553	2424.306	2417.058	2409.811	2402.564	2395.316
50.0	2308.236	2294.155	2280.075	2265.994	2251.914	2242.435	2232.956	2223.476	2213.997	2204.518
52.5	2117.136	2102.289	2087.442	2072.595	2057.748	2046.782	2035.817	2024.851	2013.886	2002.920
55.0	1900.603	1885.670	1870.737	1855.803	1840.870	1828.652	1816.433	1804.215	1791.996	1779.778
57.5	1662.649	1646.928	1631.206	1615.485	1599.764	1585.711	1571.659	1557.606	1543.554	1529.501
60.0	1406.443	1390.872	1375.300	1359.729	1344.157	1329.283	1314.409	1299.536	1284.662	1269.788
62.5	1163.155	1147.702	1132.250	1116.797	1101.345	1086.056	1070.767	1055.478	1040.188	1024.899
65.0	939.362	923.898	908.434	892.970	877.506	863.247	848.988	834.729	820.470	806.211
67.5	740.123	725.564	711.004	696.445	681.886	669.123	656.361	643.599	630.837	618.075
70.0	565.317	552.219	539.121	526.023	512.925	502.172	491.419	480.665	469.912	459.159
72.5	418.103	407.024	395.944	384.864	373.784	365.125	356.466	347.807	339.148	330.489
75.0	298.558	289.667	280.775	271.884	262.993	256.232	249.471	242.711	235.950	229.189
77.5	204.313	197.600	190.887	184.174	177.461	172.571	167.682	162.792	157.903	153.013
80.0	130.480	125.653	120.827	116.000	111.174	107.911	104.648	101.384	98.121	94.858
82.5	77.964	74.618	71.272	67.926	64.580	62.575	60.569	58.564	56.558	54.553
85.0	38.832	36.729	34.625	32.522	30.418	29.389	28.360	27.331	26.302	25.273
87.5	8.201	7.609	7.017	6.425	5.833	5.890	5.948	6.006	6.063	6.121
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.026	0.019	0.013	0.006	0.000	0.010	0.020	0.030	0.040	0.049
100.0	0.243	0.269	0.295	0.320	0.346	0.333	0.320	0.308	0.295	0.282
102.5	0.494	0.494	0.494	0.494	0.494	0.468	0.442	0.417	0.391	0.365
105.0	0.934	0.934	0.934	0.934	0.934	0.883	0.831	0.780	0.729	0.677
107.5	1.212	1.221	1.230	1.240	1.249	1.204	1.159	1.114	1.069	1.025
110.0	1.367	1.361	1.356	1.350	1.344	1.331	1.318	1.305	1.292	1.280
112.5	1.631	1.603	1.574	1.546	1.517	1.501	1.484	1.468	1.452	1.435
115.0	1.736	1.711	1.687	1.662	1.638	1.644	1.650	1.655	1.661	1.667
117.5	1.931	1.893	1.855	1.817	1.780	1.789	1.799	1.809	1.819	1.829
120.0	2.226	2.194	2.163	2.131	2.100	2.120	2.140	2.159	2.179	2.199
122.5	2.345	2.327	2.309	2.291	2.273	2.296	2.320	2.343	2.366	2.390
125.0	2.521	2.502	2.483	2.465	2.446	2.473	2.500	2.527	2.554	2.580
127.5	2.700	2.681	2.662	2.644	2.625	2.668	2.710	2.753	2.795	2.838
130.0	2.966	2.954	2.942	2.931	2.919	2.959	2.998	3.038	3.078	3.117
132.5	3.266	3.274	3.281	3.289	3.297	3.346	3.396	3.445	3.495	3.545
135.0	3.629	3.612	3.594	3.577	3.559	3.645	3.732	3.818	3.904	3.991
137.5	3.811	3.806	3.801	3.796	3.791	3.940	4.090	4.240	4.390	4.540
140.0	4.160	4.154	4.149	4.143	4.137	4.203	4.270	4.336	4.403	4.469
142.5	4.360	4.349	4.338	4.327	4.316	4.384	4.453	4.522	4.591	4.659
145.0	4.471	4.448	4.425	4.401	4.378	4.463	4.548	4.634	4.719	4.804
147.5	4.804	4.783	4.762	4.741	4.720	4.789	4.858	4.928	4.997	5.067

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CANDELA TABULATION - (Cont.)

150.0	5.199	5.180	5.161	5.143	5.124	5.152	5.180	5.208	5.236	5.264
152.5	5.540	5.532	5.523	5.515	5.507	5.512	5.516	5.521	5.526	5.530
155.0	5.920	5.897	5.874	5.850	5.827	5.822	5.818	5.813	5.808	5.804
157.5	6.065	6.058	6.051	6.044	6.037	6.025	6.013	6.000	5.988	5.976
160.0	6.205	6.226	6.247	6.268	6.289	6.246	6.203	6.160	6.117	6.073
162.5	6.334	6.375	6.417	6.458	6.500	6.471	6.443	6.415	6.387	6.359
165.0	6.506	6.541	6.576	6.611	6.646	6.634	6.623	6.611	6.599	6.588
167.5	6.710	6.722	6.733	6.745	6.757	6.727	6.697	6.667	6.638	6.608
170.0	6.701	6.716	6.732	6.747	6.762	6.732	6.701	6.671	6.641	6.610
172.5	6.666	6.674	6.683	6.691	6.699	6.676	6.652	6.629	6.606	6.582
175.0	6.666	6.674	6.683	6.691	6.699	6.676	6.652	6.629	6.606	6.582
177.5	6.476	6.482	6.488	6.494	6.500	6.491	6.482	6.473	6.464	6.456
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4131.356	4130.390	4129.424	4128.458	4128.492	4128.527	4128.561	4128.596	4128.630	4128.664
5.0	4101.657	4100.383	4099.109	4097.835	4097.478	4097.121	4096.764	4096.407	4096.050	4095.693
7.5	4071.602	4071.026	4070.449	4069.873	4067.855	4065.838	4063.820	4061.802	4059.784	4057.767
10.0	4027.548	4026.522	4025.497	4024.471	4020.880	4017.289	4013.698	4010.107	4006.516	4002.925
12.5	3974.567	3973.276	3971.986	3970.696	3965.437	3960.179	3954.921	3949.663	3944.405	3939.147
15.0	3912.387	3910.254	3908.122	3905.989	3902.582	3899.176	3895.769	3892.362	3888.956	3885.549
17.5	3846.794	3842.927	3839.060	3835.193	3833.373	3831.553	3829.733	3827.913	3826.093	3824.273
20.0	3759.196	3753.650	3748.103	3742.557	3743.907	3745.257	3746.606	3747.956	3749.306	3750.656
22.5	3674.697	3670.232	3665.767	3661.303	3663.335	3665.367	3667.400	3669.432	3671.464	3673.497
25.0	3596.145	3593.173	3590.202	3587.230	3586.621	3586.012	3585.403	3584.794	3584.185	3583.576
27.5	3498.700	3495.445	3492.190	3488.935	3486.073	3483.211	3480.349	3477.487	3474.625	3471.764
30.0	3387.695	3384.634	3381.572	3378.511	3374.511	3370.510	3366.510	3362.509	3358.509	3354.508
32.5	3262.186	3256.546	3250.906	3245.267	3243.144	3241.021	3238.898	3236.775	3234.653	3232.530
35.0	3135.769	3130.356	3124.942	3119.529	3117.939	3116.349	3114.758	3113.168	3111.578	3109.988
37.5	3010.173	3003.859	2997.544	2991.230	2989.464	2987.699	2985.934	2984.169	2982.403	2980.638
40.0	2874.497	2868.745	2862.992	2857.239	2854.778	2852.318	2849.857	2847.397	2844.936	2842.476
42.5	2720.413	2714.694	2708.975	2703.257	2700.536	2697.815	2695.094	2692.374	2689.653	2686.932
45.0	2564.075	2557.217	2550.358	2543.499	2540.037	2536.576	2533.114	2529.653	2526.191	2522.730
47.5	2388.069	2380.822	2373.574	2366.327	2363.039	2359.751	2356.462	2353.174	2349.886	2346.598
50.0	2195.039	2185.559	2176.080	2166.601	2163.143	2159.685	2156.227	2152.769	2149.311	2145.853
52.5	1991.955	1980.989	1970.024	1959.058	1954.450	1949.843	1945.235	1940.627	1936.019	1931.412
55.0	1767.559	1755.341	1743.122	1730.904	1724.444	1717.984	1711.524	1705.064	1698.605	1692.145
57.5	1515.449	1501.396	1487.344	1473.291	1466.376	1459.460	1452.545	1445.630	1438.714	1431.799
60.0	1254.914	1240.041	1225.167	1210.293	1203.035	1195.777	1188.519	1181.261	1174.004	1166.746
62.5	1009.610	994.321	979.032	963.743	957.307	950.872	944.437	938.001	931.566	925.131
65.0	791.952	777.693	763.434	749.175	743.165	737.156	731.146	725.137	719.127	713.118
67.5	605.313	592.550	579.788	567.026	561.795	556.565	551.334	546.103	540.872	535.642
70.0	448.406	437.652	426.899	416.146	411.729	407.312	402.895	398.478	394.061	389.644
72.5	321.830	313.171	304.512	295.853	292.506	289.160	285.813	282.467	279.120	275.774
75.0	222.428	215.668	208.907	202.146	199.809	197.472	195.135	192.798	190.462	188.125
77.5	148.124	143.234	138.345	133.455	131.742	130.028	128.315	126.602	124.889	123.175
80.0	91.595	88.331	85.068	81.805	80.599	79.392	78.186	76.980	75.773	74.567
82.5	52.547	50.542	48.536	46.531	45.824	45.117	44.410	43.703	42.996	42.289
85.0	24.244	23.215	22.186	21.157	20.763	20.368	19.974	19.580	19.185	18.791
87.5	6.179	6.237	6.294	6.352	6.354	6.357	6.359	6.362	6.364	6.366
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

97.5	0.059	0.069	0.079	0.089	0.079	0.069	0.059	0.049	0.040	0.030
100.0	0.269	0.257	0.244	0.231	0.218	0.205	0.192	0.179	0.167	0.154
102.5	0.340	0.314	0.288	0.263	0.253	0.243	0.233	0.223	0.213	0.203
105.0	0.626	0.575	0.523	0.472	0.472	0.472	0.472	0.472	0.472	0.472
107.5	0.980	0.935	0.890	0.845	0.851	0.858	0.864	0.871	0.877	0.884
110.0	1.267	1.254	1.241	1.228	1.221	1.214	1.207	1.200	1.193	1.186
112.5	1.419	1.403	1.386	1.370	1.383	1.397	1.410	1.424	1.437	1.450
115.0	1.673	1.678	1.684	1.690	1.690	1.690	1.690	1.690	1.690	1.690
117.5	1.839	1.849	1.859	1.869	1.898	1.927	1.957	1.986	2.015	2.044
120.0	2.219	2.238	2.258	2.278	2.304	2.329	2.355	2.381	2.406	2.432
122.5	2.413	2.436	2.460	2.483	2.509	2.534	2.560	2.586	2.611	2.637
125.0	2.607	2.634	2.661	2.688	2.726	2.765	2.803	2.842	2.880	2.919
127.5	2.880	2.923	2.965	3.008	3.037	3.065	3.094	3.122	3.151	3.179
130.0	3.157	3.197	3.236	3.276	3.295	3.313	3.332	3.351	3.369	3.388
132.5	3.594	3.644	3.693	3.743	3.745	3.748	3.750	3.752	3.755	3.757
135.0	4.077	4.163	4.250	4.336	4.308	4.280	4.252	4.224	4.196	4.168
137.5	4.690	4.840	4.990	5.140	5.051	4.962	4.874	4.785	4.696	4.608
140.0	4.536	4.602	4.669	4.735	4.728	4.721	4.714	4.707	4.700	4.693
142.5	4.728	4.797	4.866	4.935	4.947	4.959	4.971	4.984	4.996	5.008
145.0	4.889	4.975	5.060	5.145	5.164	5.182	5.201	5.220	5.238	5.257
147.5	5.136	5.206	5.275	5.345	5.367	5.389	5.411	5.433	5.455	5.477
150.0	5.292	5.320	5.348	5.376	5.439	5.502	5.565	5.628	5.691	5.754
152.5	5.535	5.540	5.544	5.549	5.613	5.676	5.740	5.803	5.867	5.930
155.0	5.799	5.794	5.790	5.785	5.829	5.874	5.918	5.962	6.007	6.051
157.5	5.964	5.951	5.939	5.927	5.974	6.021	6.069	6.116	6.163	6.210
160.0	6.030	5.987	5.944	5.901	5.971	6.041	6.111	6.181	6.251	6.321
162.5	6.331	6.303	6.275	6.247	6.295	6.343	6.391	6.438	6.486	6.534
165.0	6.576	6.564	6.553	6.541	6.566	6.590	6.615	6.639	6.664	6.688
167.5	6.578	6.548	6.519	6.489	6.526	6.564	6.601	6.638	6.676	6.713
170.0	6.580	6.550	6.519	6.489	6.532	6.575	6.618	6.661	6.705	6.748
172.5	6.559	6.536	6.512	6.489	6.539	6.589	6.639	6.689	6.740	6.790
175.0	6.559	6.536	6.512	6.489	6.545	6.601	6.657	6.713	6.769	6.825
177.5	6.447	6.438	6.429	6.421	6.455	6.489	6.524	6.558	6.592	6.627
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4128.699	4128.733	4128.768	4129.559	4130.350	4131.141	4131.932	4132.723	4133.514	4134.305
5.0	4095.336	4094.979	4094.622	4097.368	4100.115	4102.861	4105.607	4108.354	4111.100	4113.846
7.5	4055.749	4053.731	4051.714	4055.418	4059.123	4062.828	4066.533	4070.237	4073.942	4077.647
10.0	3999.334	3995.743	3992.152	3996.325	4000.498	4004.672	4008.845	4013.018	4017.191	4021.365
12.5	3933.888	3928.630	3923.372	3929.284	3935.196	3941.108	3947.020	3952.933	3958.845	3964.757
15.0	3882.142	3878.736	3875.329	3881.140	3886.951	3892.763	3898.574	3904.385	3910.196	3916.008
17.5	3822.453	3820.633	3818.813	3822.758	3826.703	3830.648	3834.593	3838.538	3842.483	3846.428
20.0	3752.005	3753.355	3754.705	3756.124	3757.542	3758.961	3760.380	3761.798	3763.217	3764.636
22.5	3675.529	3677.561	3679.594	3680.364	3681.135	3681.905	3682.676	3683.447	3684.217	3684.988
25.0	3582.967	3582.358	3581.749	3584.008	3586.266	3588.525	3590.784	3593.042	3595.301	3597.560
27.5	3468.902	3466.040	3463.178	3467.309	3471.440	3475.572	3479.703	3483.834	3487.965	3492.096
30.0	3350.508	3346.507	3342.507	3347.004	3351.502	3355.999	3360.497	3364.994	3369.492	3373.989
32.5	3230.407	3228.284	3226.162	3231.438	3236.715	3241.992	3247.269	3252.546	3257.823	3263.099
35.0	3108.397	3106.807	3105.217	3110.439	3115.661	3120.883	3126.105	3131.327	3136.549	3141.771
37.5	2978.873	2977.108	2975.343	2980.229	2985.116	2990.002	2994.889	2999.776	3004.662	3009.549
40.0	2840.015	2837.555	2835.094	2838.736	2842.379	2846.021	2849.663	2853.306	2856.948	2860.590
42.5	2684.211	2681.491	2678.770	2682.608	2686.447	2690.285	2694.123	2697.962	2701.800	2705.638

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

45.0	2519.268	2515.807	2512.345	2517.548	2522.752	2527.955	2533.158	2538.362	2543.565	2548.768
47.5	2343.309	2340.021	2336.733	2341.910	2347.087	2352.264	2357.441	2362.618	2367.795	2372.972
50.0	2142.395	2138.937	2135.479	2140.983	2146.488	2151.992	2157.496	2163.001	2168.505	2174.009
52.5	1926.804	1922.196	1917.589	1923.822	1930.056	1936.289	1942.523	1948.756	1954.990	1961.223
55.0	1685.685	1679.225	1672.765	1679.673	1686.581	1693.489	1700.397	1707.304	1714.212	1721.120
57.5	1424.883	1417.968	1411.053	1417.290	1423.527	1429.764	1436.001	1442.238	1448.475	1454.712
60.0	1159.488	1152.230	1144.972	1151.155	1157.339	1163.522	1169.705	1175.889	1182.072	1188.255
62.5	918.695	912.260	905.825	911.542	917.259	922.976	928.693	934.411	940.128	945.845
65.0	707.108	701.099	695.089	700.728	706.366	712.005	717.643	723.282	728.920	734.559
67.5	530.411	525.180	519.950	524.948	529.947	534.945	539.944	544.942	549.941	554.939
70.0	385.227	380.810	376.393	380.530	384.667	388.804	392.941	397.078	401.215	405.352
72.5	272.427	269.081	265.734	268.882	272.030	275.179	278.327	281.475	284.623	287.772
75.0	185.788	183.451	181.114	183.429	185.743	188.058	190.373	192.687	195.002	197.317
77.5	121.462	119.749	118.036	119.729	121.422	123.116	124.809	126.502	128.196	129.889
80.0	73.361	72.154	70.948	72.104	73.260	74.417	75.573	76.729	77.885	79.042
82.5	41.582	40.875	40.168	40.875	41.583	42.290	42.998	43.705	44.413	45.120
85.0	18.397	18.002	17.608	17.895	18.182	18.469	18.756	19.043	19.330	19.617
87.5	6.369	6.371	6.374	6.292	6.210	6.128	6.047	5.965	5.883	5.801
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.020	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.141	0.128	0.115	0.109	0.103	0.098	0.092	0.086	0.080	0.075
102.5	0.193	0.183	0.173	0.184	0.194	0.205	0.215	0.226	0.236	0.247
105.0	0.472	0.472	0.472	0.466	0.460	0.455	0.449	0.443	0.437	0.432
107.5	0.890	0.897	0.903	0.881	0.859	0.837	0.814	0.792	0.770	0.748
110.0	1.179	1.172	1.165	1.146	1.128	1.109	1.090	1.072	1.053	1.034
112.5	1.464	1.477	1.491	1.465	1.439	1.414	1.388	1.362	1.337	1.311
115.0	1.690	1.690	1.690	1.678	1.667	1.655	1.643	1.632	1.620	1.608
117.5	2.073	2.102	2.132	2.093	2.054	2.016	1.977	1.939	1.900	1.862
120.0	2.458	2.483	2.509	2.439	2.369	2.299	2.229	2.159	2.089	2.019
122.5	2.663	2.688	2.714	2.663	2.613	2.562	2.511	2.460	2.410	2.359
125.0	2.957	2.996	3.034	2.977	2.920	2.863	2.806	2.748	2.691	2.634
127.5	3.208	3.236	3.265	3.215	3.166	3.116	3.067	3.017	2.968	2.918
130.0	3.407	3.425	3.444	3.439	3.435	3.430	3.425	3.421	3.416	3.411
132.5	3.759	3.762	3.764	3.762	3.761	3.759	3.757	3.755	3.754	3.752
135.0	4.140	4.112	4.084	4.099	4.114	4.130	4.145	4.160	4.175	4.191
137.5	4.519	4.430	4.342	4.347	4.353	4.359	4.365	4.371	4.377	4.382
140.0	4.686	4.679	4.672	4.667	4.663	4.658	4.653	4.649	4.644	4.639
142.5	5.020	5.033	5.045	5.025	5.004	4.984	4.963	4.943	4.922	4.902
145.0	5.276	5.294	5.313	5.290	5.266	5.243	5.220	5.196	5.173	5.150
147.5	5.499	5.521	5.544	5.530	5.517	5.503	5.490	5.477	5.463	5.450
150.0	5.817	5.880	5.943	5.941	5.938	5.936	5.934	5.931	5.929	5.927
152.5	5.994	6.057	6.121	6.115	6.108	6.102	6.095	6.089	6.083	6.076
155.0	6.095	6.140	6.184	6.186	6.189	6.191	6.193	6.196	6.198	6.200
157.5	6.258	6.305	6.352	6.343	6.335	6.326	6.317	6.308	6.300	6.291
160.0	6.391	6.461	6.531	6.515	6.498	6.482	6.466	6.449	6.433	6.417
162.5	6.582	6.630	6.678	6.675	6.672	6.669	6.666	6.663	6.660	6.657
165.0	6.713	6.737	6.762	6.772	6.783	6.793	6.804	6.814	6.825	6.835
167.5	6.750	6.788	6.825	6.832	6.839	6.846	6.853	6.860	6.867	6.874
170.0	6.791	6.834	6.877	6.881	6.884	6.888	6.891	6.895	6.898	6.902
172.5	6.840	6.890	6.940	6.951	6.961	6.972	6.982	6.993	7.003	7.014
175.0	6.881	6.937	6.993	6.998	7.002	7.007	7.012	7.016	7.021	7.026
177.5	6.661	6.696	6.730	6.763	6.797	6.830	6.863	6.896	6.930	6.963
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4135.096	4135.887	4135.540	4135.193	4134.846	4134.499	4134.151	4133.804	4133.457	4133.110
5.0	4116.593	4119.339	4117.381	4115.424	4113.466	4111.508	4109.551	4107.593	4105.635	4103.678
7.5	4081.352	4085.057	4085.096	4085.135	4085.174	4085.213	4085.252	4085.291	4085.330	4085.369
10.0	4025.538	4029.711	4032.247	4034.784	4037.320	4039.856	4042.393	4044.929	4047.465	4050.002
12.5	3970.669	3976.581	3978.900	3981.220	3983.539	3985.858	3988.177	3990.497	3992.816	3995.135
15.0	3921.819	3927.630	3929.257	3930.885	3932.512	3934.140	3935.767	3937.395	3939.022	3940.650
17.5	3850.373	3854.319	3857.004	3859.690	3862.376	3865.061	3867.747	3870.433	3873.118	3875.804
20.0	3766.054	3767.473	3771.910	3776.347	3780.784	3785.221	3789.657	3794.094	3798.531	3802.968
22.5	3685.758	3686.529	3691.766	3697.003	3702.240	3707.477	3712.715	3717.952	3723.189	3728.426
25.0	3599.818	3602.077	3606.267	3610.456	3614.646	3618.835	3623.025	3627.214	3631.404	3635.593
27.5	3496.227	3500.359	3504.748	3509.137	3513.526	3517.915	3522.304	3526.693	3531.082	3535.471
30.0	3378.487	3382.984	3388.887	3394.791	3400.694	3406.597	3412.501	3418.404	3424.307	3430.211
32.5	3268.376	3273.653	3279.738	3285.823	3291.907	3297.992	3304.077	3310.162	3316.246	3322.331
35.0	3146.993	3152.215	3158.615	3165.016	3171.416	3177.816	3184.217	3190.617	3197.017	3203.418
37.5	3014.435	3019.322	3025.829	3032.336	3038.843	3045.350	3051.857	3058.364	3064.871	3071.378
40.0	2864.233	2867.875	2875.013	2882.150	2889.288	2896.426	2903.563	2910.701	2917.839	2924.976
42.5	2709.477	2713.315	2721.085	2728.855	2736.625	2744.395	2752.165	2759.935	2767.705	2775.475
45.0	2553.972	2559.175	2567.512	2575.849	2584.186	2592.523	2600.860	2609.197	2617.534	2625.871
47.5	2378.149	2383.327	2392.411	2401.496	2410.581	2419.666	2428.751	2437.836	2446.920	2456.005
50.0	2179.514	2185.018	2196.147	2207.276	2218.405	2229.534	2240.662	2251.791	2262.920	2274.049
52.5	1967.457	1973.690	1986.851	2000.012	2013.174	2026.335	2039.496	2052.657	2065.818	2078.979
55.0	1728.028	1734.936	1748.659	1762.383	1776.106	1789.830	1803.553	1817.277	1831.000	1844.724
57.5	1460.949	1467.186	1481.629	1496.072	1510.515	1524.959	1539.402	1553.845	1568.289	1582.732
60.0	1194.439	1200.622	1215.462	1230.302	1245.142	1259.982	1274.822	1289.662	1304.502	1319.342
62.5	951.562	957.280	971.715	986.151	1000.587	1015.022	1029.458	1043.894	1058.330	1072.765
65.0	740.197	745.836	758.955	772.074	785.193	798.312	811.432	824.551	837.670	850.789
67.5	559.938	564.937	576.468	588.000	599.532	611.064	622.596	634.128	645.660	657.192
70.0	409.489	413.626	423.484	433.343	443.201	453.059	462.918	472.776	482.634	492.493
72.5	290.920	294.068	302.363	310.658	318.953	327.248	335.543	343.838	352.133	360.428
75.0	199.631	201.946	208.628	215.309	221.991	228.672	235.354	242.035	248.717	255.398
77.5	131.583	133.276	138.121	142.966	147.812	152.657	157.502	162.347	167.193	172.038
80.0	80.198	81.354	84.622	87.890	91.157	94.425	97.693	100.961	104.228	107.496
82.5	45.828	46.536	48.554	50.572	52.591	54.609	56.627	58.646	60.664	62.682
85.0	19.904	20.191	21.246	22.300	23.355	24.410	25.464	26.519	27.574	28.628
87.5	5.720	5.638	5.547	5.456	5.365	5.274	5.183	5.092	5.001	4.910
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.069	0.063	0.082	0.100	0.119	0.138	0.156	0.175	0.194	0.212
102.5	0.257	0.268	0.280	0.293	0.306	0.319	0.332	0.345	0.357	0.370
105.0	0.426	0.420	0.444	0.469	0.493	0.518	0.542	0.567	0.591	0.616
107.5	0.726	0.704	0.730	0.756	0.782	0.808	0.835	0.861	0.887	0.913
110.0	1.016	0.997	1.003	1.009	1.015	1.021	1.026	1.032	1.038	1.044
112.5	1.286	1.260	1.273	1.286	1.298	1.311	1.324	1.337	1.349	1.362
115.0	1.597	1.585	1.565	1.545	1.526	1.506	1.486	1.466	1.447	1.427
117.5	1.823	1.785	1.765	1.746	1.727	1.708	1.688	1.669	1.650	1.631
120.0	1.949	1.879	1.872	1.865	1.858	1.851	1.844	1.837	1.830	1.823
122.5	2.308	2.258	2.241	2.224	2.207	2.190	2.173	2.156	2.139	2.122
125.0	2.577	2.520	2.506	2.492	2.478	2.464	2.450	2.436	2.422	2.408
127.5	2.869	2.819	2.786	2.752	2.719	2.686	2.653	2.619	2.586	2.553
130.0	3.407	3.402	3.351	3.299	3.248	3.197	3.145	3.094	3.043	2.991

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

132.5	3.750	3.749	3.705	3.662	3.619	3.576	3.532	3.489	3.446	3.403
135.0	4.206	4.221	4.149	4.076	4.004	3.932	3.859	3.787	3.715	3.642
137.5	4.388	4.394	4.338	4.282	4.226	4.170	4.114	4.058	4.002	3.946
140.0	4.635	4.630	4.576	4.523	4.469	4.415	4.362	4.308	4.254	4.201
142.5	4.881	4.861	4.821	4.782	4.742	4.702	4.663	4.623	4.583	4.544
145.0	5.126	5.103	5.063	5.024	4.984	4.944	4.905	4.865	4.825	4.786
147.5	5.436	5.423	5.395	5.367	5.339	5.311	5.283	5.255	5.227	5.199
150.0	5.924	5.922	5.855	5.789	5.722	5.656	5.589	5.523	5.456	5.390
152.5	6.070	6.064	6.017	5.970	5.924	5.877	5.830	5.784	5.737	5.690
155.0	6.203	6.205	6.146	6.086	6.027	5.967	5.908	5.848	5.789	5.729
157.5	6.282	6.274	6.255	6.236	6.218	6.199	6.180	6.162	6.143	6.124
160.0	6.400	6.384	6.357	6.330	6.303	6.276	6.250	6.223	6.196	6.169
162.5	6.654	6.652	6.621	6.590	6.559	6.528	6.497	6.466	6.435	6.404
165.0	6.846	6.856	6.821	6.786	6.751	6.716	6.681	6.646	6.611	6.576
167.5	6.881	6.888	6.872	6.857	6.842	6.827	6.812	6.797	6.781	6.766
170.0	6.905	6.909	6.901	6.893	6.884	6.876	6.868	6.860	6.851	6.843
172.5	7.024	7.035	7.026	7.016	7.007	6.998	6.988	6.979	6.970	6.960
175.0	7.030	7.035	7.026	7.016	7.007	6.998	6.988	6.979	6.970	6.960
177.5	6.996	7.030	7.011	6.993	6.975	6.957	6.939	6.921	6.903	6.885
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

**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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4132.763	4134.682	4136.601	4138.521	4140.440	4142.359	4144.278	4146.197	4148.116	4150.036
5.0	4101.720	4104.659	4107.598	4110.536	4113.475	4116.414	4119.353	4122.291	4125.230	4128.169
7.5	4085.408	4087.895	4090.382	4092.868	4095.355	4097.842	4100.329	4102.815	4105.302	4107.789
10.0	4052.538	4055.134	4057.730	4060.325	4062.921	4065.517	4068.113	4070.708	4073.304	4075.900
12.5	3997.455	4001.281	4005.108	4008.935	4012.761	4016.588	4020.415	4024.241	4028.068	4031.895
15.0	3942.277	3946.644	3951.011	3955.378	3959.745	3964.111	3968.478	3972.845	3977.212	3981.579
17.5	3878.490	3883.096	3887.702	3892.308	3896.914	3901.520	3906.126	3910.732	3915.338	3919.944
20.0	3807.405	3811.971	3816.538	3821.104	3825.670	3830.237	3834.803	3839.369	3843.936	3848.502
22.5	3733.663	3739.765	3745.868	3751.970	3758.072	3764.174	3770.277	3776.379	3782.481	3788.584
25.0	3639.783	3647.748	3655.713	3663.677	3671.642	3679.607	3687.572	3695.536	3703.501	3711.466
27.5	3539.860	3549.095	3558.330	3567.566	3576.801	3586.036	3595.272	3604.507	3613.742	3622.978
30.0	3436.114	3446.333	3456.552	3466.771	3476.990	3487.208	3497.427	3507.646	3517.865	3528.084
32.5	3328.416	3338.253	3348.089	3357.926	3367.763	3377.600	3387.436	3397.273	3407.110	3416.947
35.0	3209.818	3221.087	3232.356	3243.625	3254.894	3266.162	3277.431	3288.700	3299.969	3311.238
37.5	3077.886	3089.347	3100.808	3112.270	3123.731	3135.192	3146.654	3158.115	3169.577	3181.038
40.0	2932.114	2944.747	2957.379	2970.012	2982.645	2995.277	3007.910	3020.543	3033.175	3045.808
42.5	2783.245	2796.581	2809.917	2823.254	2836.590	2849.926	2863.262	2876.599	2889.935	2903.271
45.0	2634.208	2647.141	2660.073	2673.006	2685.938	2698.871	2711.803	2724.736	2737.668	2750.601
47.5	2465.090	2479.879	2494.668	2509.458	2524.247	2539.036	2553.825	2568.615	2583.404	2598.193
50.0	2285.178	2300.279	2315.381	2330.482	2345.583	2360.685	2375.786	2390.887	2405.989	2421.090
52.5	2092.141	2106.576	2121.012	2135.448	2149.883	2164.319	2178.755	2193.191	2207.626	2222.062
55.0	1858.447	1875.381	1892.315	1909.250	1926.184	1943.118	1960.052	1976.987	1993.921	2010.855
57.5	1597.175	1614.941	1632.707	1650.473	1668.239	1686.005	1703.771	1721.537	1739.304	1757.070
60.0	1334.182	1351.730	1369.278	1386.826	1404.374	1421.921	1439.469	1457.017	1474.565	1492.113
62.5	1087.201	1103.782	1120.364	1136.945	1153.526	1170.107	1186.689	1203.270	1219.851	1236.433
65.0	863.908	879.551	895.193	910.836	926.479	942.121	957.764	973.407	989.049	1004.692
67.5	668.724	683.056	697.388	711.720	726.052	740.383	754.715	769.047	783.379	797.711
70.0	502.351	515.071	527.791	540.512	553.232	565.952	578.672	591.393	604.113	616.833
72.5	368.723	379.456	390.190	400.923	411.656	422.390	433.123	443.856	454.590	465.323
75.0	262.080	270.499	278.917	287.336	295.755	304.173	312.592	321.011	329.429	337.848
77.5	176.883	183.314	189.745	196.177	202.608	209.039	215.470	221.902	228.333	234.764

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CANDELA TABULATION - (Cont.)

80.0	110.764	115.512	120.261	125.009	129.757	134.506	139.254	144.002	148.751	153.499
82.5	64.701	68.019	71.337	74.655	77.973	81.291	84.609	87.927	91.245	94.563
85.0	29.683	31.791	33.899	36.008	38.116	40.224	42.332	44.441	46.549	48.657
87.5	4.820	5.223	5.626	6.029	6.432	6.835	7.238	7.641	8.044	8.447
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.231	0.218	0.205	0.192	0.179	0.167	0.154	0.141	0.128	0.115
102.5	0.383	0.380	0.376	0.373	0.369	0.366	0.362	0.359	0.355	0.352
105.0	0.640	0.641	0.642	0.644	0.645	0.646	0.647	0.649	0.650	0.651
107.5	0.940	0.942	0.945	0.948	0.951	0.954	0.957	0.960	0.963	0.966
110.0	1.050	1.077	1.104	1.130	1.157	1.184	1.211	1.237	1.264	1.291
112.5	1.375	1.395	1.415	1.435	1.455	1.474	1.494	1.514	1.534	1.554
115.0	1.407	1.445	1.484	1.522	1.561	1.599	1.638	1.676	1.715	1.753
117.5	1.612	1.641	1.670	1.699	1.728	1.757	1.787	1.816	1.845	1.874
120.0	1.816	1.829	1.842	1.855	1.868	1.880	1.893	1.906	1.919	1.932
122.5	2.105	2.115	2.125	2.135	2.145	2.155	2.165	2.175	2.185	2.195
125.0	2.394	2.381	2.368	2.355	2.342	2.330	2.317	2.304	2.291	2.278
127.5	2.520	2.542	2.564	2.586	2.608	2.630	2.653	2.675	2.697	2.719
130.0	2.940	2.945	2.949	2.954	2.959	2.963	2.968	2.973	2.977	2.982
132.5	3.360	3.364	3.368	3.372	3.376	3.380	3.384	3.388	3.392	3.397
135.0	3.570	3.576	3.582	3.587	3.593	3.599	3.605	3.610	3.616	3.622
137.5	3.890	3.887	3.883	3.880	3.876	3.873	3.869	3.866	3.862	3.859
140.0	4.147	4.148	4.149	4.151	4.152	4.153	4.154	4.156	4.157	4.158
142.5	4.504	4.497	4.490	4.483	4.476	4.469	4.462	4.455	4.448	4.441
145.0	4.746	4.732	4.718	4.704	4.690	4.676	4.662	4.648	4.634	4.620
147.5	5.171	5.133	5.095	5.057	5.019	4.981	4.943	4.905	4.867	4.830
150.0	5.323	5.303	5.283	5.264	5.244	5.224	5.204	5.185	5.165	5.145
152.5	5.644	5.627	5.611	5.595	5.578	5.562	5.546	5.529	5.513	5.497
155.0	5.670	5.703	5.735	5.768	5.801	5.833	5.866	5.899	5.931	5.964
157.5	6.106	6.096	6.087	6.078	6.068	6.059	6.050	6.040	6.031	6.022
160.0	6.142	6.161	6.179	6.198	6.217	6.235	6.254	6.273	6.291	6.310
162.5	6.373	6.380	6.387	6.394	6.401	6.408	6.415	6.422	6.429	6.437
165.0	6.541	6.561	6.581	6.601	6.621	6.640	6.660	6.680	6.700	6.720
167.5	6.751	6.748	6.744	6.741	6.737	6.734	6.730	6.727	6.723	6.720
170.0	6.835	6.829	6.823	6.818	6.812	6.806	6.800	6.795	6.789	6.783
172.5	6.951	6.938	6.925	6.912	6.899	6.887	6.874	6.861	6.848	6.835
175.0	6.951	6.938	6.925	6.912	6.899	6.887	6.874	6.861	6.848	6.835
177.5	6.867	6.864	6.861	6.858	6.855	6.852	6.849	6.846	6.843	6.841
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

**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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4150.670	4151.304	4151.938	4152.572	4153.206	4153.840	4154.474	4155.108	4155.743	4157.794
5.0	4129.975	4131.781	4133.587	4135.393	4137.199	4139.005	4140.811	4142.617	4144.423	4148.511
7.5	4109.419	4111.050	4112.680	4114.311	4115.941	4117.571	4119.202	4120.832	4122.463	4125.673
10.0	4078.679	4081.458	4084.237	4087.016	4089.795	4092.574	4095.353	4098.132	4100.911	4104.143
12.5	4036.027	4040.160	4044.293	4048.426	4052.559	4056.692	4060.825	4064.958	4069.091	4072.689
15.0	3987.229	3992.879	3998.529	4004.179	4009.830	4015.480	4021.130	4026.780	4032.430	4035.728
17.5	3926.694	3933.445	3940.196	3946.947	3953.698	3960.449	3967.200	3973.951	3980.702	3985.079
20.0	3855.795	3863.088	3870.380	3877.673	3884.966	3892.259	3899.551	3906.844	3914.137	3921.264
22.5	3795.964	3803.344	3810.725	3818.105	3825.485	3832.866	3840.246	3847.626	3855.007	3861.168
25.0	3719.728	3727.991	3736.253	3744.515	3752.778	3761.040	3769.302	3777.565	3785.827	3791.786

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

27.5	3631.093	3639.208	3647.324	3655.439	3663.554	3671.670	3679.785	3687.900	3696.016	3703.428
30.0	3536.715	3545.346	3553.977	3562.608	3571.239	3579.870	3588.501	3597.132	3605.763	3613.886
32.5	3427.023	3437.100	3447.176	3457.253	3467.329	3477.406	3487.482	3497.559	3507.635	3516.400
35.0	3320.731	3330.224	3339.717	3349.210	3358.704	3368.197	3377.690	3387.183	3396.676	3407.370
37.5	3192.477	3203.915	3215.354	3226.792	3238.231	3249.669	3261.108	3272.546	3283.985	3294.352
40.0	3059.042	3072.275	3085.509	3098.742	3111.976	3125.209	3138.443	3151.676	3164.910	3175.585
42.5	2917.184	2931.096	2945.009	2958.921	2972.834	2986.746	3000.659	3014.571	3028.484	3039.080
45.0	2764.902	2779.203	2793.504	2807.805	2822.106	2836.407	2850.708	2865.009	2879.310	2890.643
47.5	2612.433	2626.674	2640.914	2655.154	2669.395	2683.635	2697.875	2712.116	2726.356	2738.864
50.0	2436.408	2451.727	2467.045	2482.363	2497.682	2513.000	2528.318	2543.637	2558.955	2572.764
52.5	2239.164	2256.265	2273.367	2290.468	2307.570	2324.672	2341.773	2358.875	2375.977	2391.050
55.0	2028.465	2046.074	2063.684	2081.294	2098.903	2116.513	2134.123	2151.732	2169.342	2185.571
57.5	1775.506	1793.942	1812.378	1830.814	1849.251	1867.687	1886.123	1904.559	1922.996	1941.798
60.0	1510.740	1529.367	1547.994	1566.621	1585.248	1603.875	1622.502	1641.129	1659.756	1679.334
62.5	1254.696	1272.960	1291.223	1309.487	1327.750	1346.014	1364.277	1382.541	1400.805	1420.116
65.0	1021.610	1038.528	1055.446	1072.364	1089.281	1106.199	1123.117	1140.035	1156.953	1174.158
67.5	812.810	827.909	843.008	858.107	873.206	888.305	903.404	918.503	933.602	948.339
70.0	629.677	642.521	655.364	668.208	681.052	693.896	706.739	719.583	732.427	744.467
72.5	475.604	485.884	496.165	506.446	516.726	527.007	537.288	547.568	557.849	566.908
75.0	345.752	353.656	361.560	369.464	377.369	385.273	393.177	401.081	408.985	415.383
77.5	240.510	246.257	252.003	257.750	263.496	269.243	274.989	280.736	286.482	290.842
80.0	157.350	161.201	165.053	168.904	172.755	176.606	180.458	184.309	188.160	190.729
82.5	97.141	99.718	102.296	104.874	107.452	110.029	112.607	115.185	117.763	118.705
85.0	50.295	51.933	53.571	55.209	56.847	58.485	60.123	61.761	63.399	63.538
87.5	8.820	9.194	9.567	9.940	10.314	10.687	11.060	11.434	11.807	11.941
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.102	0.089	0.077	0.064	0.051	0.038	0.026	0.013	0.000	0.000
102.5	0.312	0.273	0.234	0.195	0.156	0.117	0.078	0.039	0.000	0.000
105.0	0.579	0.506	0.434	0.362	0.289	0.217	0.145	0.072	0.000	0.000
107.5	0.858	0.751	0.644	0.536	0.429	0.322	0.215	0.107	0.000	0.000
110.0	1.173	1.055	0.938	0.820	0.702	0.584	0.467	0.349	0.231	0.205
112.5	1.426	1.298	1.171	1.043	0.915	0.787	0.660	0.532	0.404	0.388
115.0	1.604	1.454	1.305	1.156	1.006	0.857	0.708	0.558	0.409	0.409
117.5	1.746	1.619	1.491	1.363	1.235	1.108	0.980	0.852	0.725	0.699
120.0	1.846	1.759	1.673	1.587	1.500	1.414	1.328	1.241	1.155	1.104
122.5	2.105	2.015	1.925	1.835	1.745	1.656	1.566	1.476	1.386	1.319
125.0	2.186	2.094	2.002	1.910	1.817	1.725	1.633	1.541	1.449	1.416
127.5	2.606	2.494	2.381	2.269	2.156	2.044	1.931	1.819	1.706	1.671
130.0	2.862	2.742	2.621	2.501	2.381	2.261	2.140	2.020	1.900	1.857
132.5	3.257	3.117	2.977	2.837	2.697	2.557	2.417	2.277	2.137	2.086
135.0	3.470	3.319	3.167	3.015	2.864	2.712	2.560	2.409	2.257	2.200
137.5	3.684	3.509	3.334	3.159	2.984	2.809	2.634	2.459	2.284	2.236
140.0	3.972	3.787	3.601	3.416	3.230	3.045	2.859	2.674	2.488	2.457
142.5	4.256	4.071	3.886	3.701	3.517	3.332	3.147	2.962	2.777	2.726
145.0	4.454	4.289	4.123	3.957	3.792	3.626	3.460	3.295	3.129	3.052
147.5	4.653	4.476	4.299	4.123	3.946	3.769	3.592	3.416	3.239	3.176
150.0	4.952	4.760	4.567	4.375	4.182	3.990	3.797	3.605	3.412	3.362
152.5	5.275	5.053	4.832	4.610	4.388	4.167	3.945	3.723	3.502	3.467
155.0	5.687	5.411	5.134	4.858	4.581	4.305	4.028	3.752	3.475	3.489
157.5	5.742	5.462	5.182	4.902	4.622	4.342	4.062	3.782	3.502	3.567
160.0	6.078	5.846	5.614	5.382	5.149	4.917	4.685	4.453	4.221	4.216
162.5	6.264	6.092	5.920	5.748	5.576	5.404	5.232	5.060	4.888	4.841
165.0	6.539	6.358	6.177	5.996	5.816	5.635	5.454	5.273	5.092	5.049

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CANDELA TABULATION - (Cont.)

167.5	6.549	6.378	6.207	6.036	5.865	5.694	5.523	5.352	5.182	5.174
170.0	6.641	6.498	6.356	6.214	6.071	5.929	5.787	5.644	5.502	5.483
172.5	6.741	6.647	6.553	6.459	6.366	6.272	6.178	6.084	5.990	5.953
175.0	6.751	6.667	6.583	6.499	6.415	6.331	6.247	6.163	6.079	6.087
177.5	6.749	6.657	6.566	6.474	6.382	6.291	6.199	6.108	6.016	6.031
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4159.846	4161.897	4163.949	4166.000	4168.052	4170.103	4172.155	4174.207	4173.470	4172.734
5.0	4152.599	4156.687	4160.775	4164.863	4168.951	4173.039	4177.127	4181.215	4179.882	4178.548
7.5	4128.884	4132.095	4135.305	4138.516	4141.727	4144.937	4148.148	4151.359	4151.847	4152.336
10.0	4107.374	4110.606	4113.838	4117.069	4120.301	4123.533	4126.764	4129.996	4131.466	4132.936
12.5	4076.287	4079.885	4083.483	4087.081	4090.679	4094.277	4097.875	4101.473	4103.981	4106.489
15.0	4039.026	4042.325	4045.623	4048.921	4052.219	4055.518	4058.816	4062.114	4065.705	4069.296
17.5	3989.455	3993.832	3998.209	4002.586	4006.962	4011.339	4015.716	4020.093	4022.943	4025.793
20.0	3928.391	3935.519	3942.646	3949.773	3956.900	3964.028	3971.155	3978.282	3980.742	3983.203
22.5	3867.330	3873.492	3879.653	3885.815	3891.977	3898.139	3904.300	3910.462	3915.042	3919.622
25.0	3797.746	3803.705	3809.664	3815.624	3821.583	3827.542	3833.502	3839.461	3845.336	3851.212
27.5	3710.840	3718.253	3725.665	3733.078	3740.490	3747.903	3755.315	3762.728	3769.213	3775.698
30.0	3622.010	3630.133	3638.257	3646.380	3654.504	3662.627	3670.751	3678.874	3686.100	3693.327
32.5	3525.164	3533.929	3542.693	3551.458	3560.223	3568.987	3577.752	3586.517	3593.516	3600.515
35.0	3418.063	3428.757	3439.451	3450.144	3460.838	3471.532	3482.225	3492.919	3499.330	3505.741
37.5	3304.719	3315.086	3325.453	3335.820	3346.187	3356.554	3366.921	3377.288	3383.184	3389.081
40.0	3186.260	3196.935	3207.610	3218.285	3228.960	3239.635	3250.310	3260.985	3267.449	3273.914
42.5	3049.676	3060.272	3070.868	3081.465	3092.061	3102.657	3113.253	3123.850	3132.302	3140.755
45.0	2901.976	2913.309	2924.642	2935.975	2947.308	2958.641	2969.974	2981.307	2990.500	2999.694
47.5	2751.373	2763.881	2776.390	2788.898	2801.407	2813.915	2826.424	2838.932	2849.499	2860.065
50.0	2586.572	2600.381	2614.190	2627.998	2641.807	2655.616	2669.424	2683.233	2694.313	2705.393
52.5	2406.124	2421.198	2436.272	2451.346	2466.420	2481.494	2496.568	2511.642	2522.639	2533.636
55.0	2201.801	2218.030	2234.260	2250.489	2266.719	2282.948	2299.178	2315.407	2327.535	2339.662
57.5	1960.601	1979.403	1998.206	2017.009	2035.811	2054.614	2073.417	2092.219	2104.747	2117.276
60.0	1698.912	1718.489	1738.067	1757.645	1777.223	1796.800	1816.378	1835.956	1848.851	1861.746
62.5	1439.428	1458.740	1478.052	1497.364	1516.676	1535.988	1555.300	1574.612	1584.805	1594.999
65.0	1191.363	1208.567	1225.772	1242.977	1260.182	1277.386	1294.591	1311.796	1318.804	1325.812
67.5	963.077	977.814	992.551	1007.289	1022.026	1036.763	1051.501	1066.238	1069.422	1072.606
70.0	756.507	768.547	780.587	792.627	804.667	816.707	828.747	840.787	841.072	841.356
72.5	575.966	585.025	594.083	603.142	612.201	621.259	630.318	639.377	637.846	636.315
75.0	421.781	428.179	434.577	440.975	447.373	453.771	460.169	466.567	464.037	461.506
77.5	295.202	299.561	303.921	308.281	312.641	317.000	321.360	325.720	322.892	320.064
80.0	193.298	195.867	198.436	201.005	203.574	206.143	208.712	211.281	208.580	205.879
82.5	119.647	120.589	121.531	122.473	123.415	124.357	125.299	126.241	123.446	120.650
85.0	63.677	63.815	63.954	64.093	64.232	64.370	64.509	64.648	61.980	59.312
87.5	12.075	12.210	12.344	12.478	12.612	12.746	12.880	13.015	12.194	11.373
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.180	0.154	0.128	0.103	0.077	0.051	0.026	0.000	0.000	0.000
112.5	0.373	0.357	0.341	0.325	0.310	0.294	0.278	0.263	0.233	0.204

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CANDELA TABULATION - (Cont.)

115.0	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.376	0.344
117.5	0.673	0.648	0.622	0.596	0.571	0.545	0.519	0.494	0.477	0.461
120.0	1.052	1.001	0.950	0.898	0.847	0.796	0.744	0.693	0.667	0.642
122.5	1.252	1.185	1.118	1.050	0.983	0.916	0.849	0.782	0.759	0.737
125.0	1.384	1.351	1.318	1.286	1.253	1.220	1.188	1.155	1.105	1.055
127.5	1.636	1.601	1.566	1.531	1.496	1.461	1.426	1.391	1.336	1.281
130.0	1.814	1.771	1.728	1.684	1.641	1.598	1.555	1.512	1.486	1.461
132.5	2.035	1.984	1.934	1.883	1.832	1.781	1.731	1.680	1.655	1.630
135.0	2.143	2.086	2.029	1.971	1.914	1.857	1.800	1.743	1.724	1.706
137.5	2.189	2.142	2.095	2.047	2.000	1.953	1.906	1.859	1.833	1.807
140.0	2.425	2.394	2.362	2.331	2.299	2.268	2.236	2.205	2.154	2.102
142.5	2.676	2.625	2.574	2.523	2.473	2.422	2.371	2.321	2.305	2.290
145.0	2.975	2.898	2.821	2.744	2.667	2.590	2.513	2.436	2.437	2.438
147.5	3.113	3.050	2.987	2.924	2.861	2.798	2.735	2.672	2.670	2.667
150.0	3.312	3.262	3.212	3.161	3.111	3.061	3.011	2.961	2.975	2.989
152.5	3.433	3.398	3.364	3.330	3.295	3.261	3.226	3.192	3.213	3.234
155.0	3.503	3.517	3.531	3.545	3.559	3.573	3.587	3.601	3.635	3.669
157.5	3.633	3.699	3.765	3.831	3.897	3.963	4.029	4.095	4.096	4.097
160.0	4.212	4.207	4.202	4.198	4.193	4.188	4.184	4.179	4.181	4.184
162.5	4.795	4.749	4.703	4.657	4.611	4.565	4.519	4.473	4.458	4.443
165.0	5.006	4.963	4.920	4.876	4.833	4.790	4.747	4.704	4.699	4.695
167.5	5.166	5.159	5.151	5.143	5.136	5.128	5.121	5.113	5.108	5.103
170.0	5.465	5.446	5.427	5.409	5.390	5.371	5.353	5.334	5.323	5.313
172.5	5.915	5.878	5.841	5.803	5.766	5.729	5.691	5.654	5.644	5.634
175.0	6.095	6.104	6.112	6.120	6.128	6.137	6.145	6.153	6.130	6.106
177.5	6.046	6.062	6.077	6.092	6.107	6.123	6.138	6.153	6.146	6.139
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

Vert. Horizontal Angles
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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4171.998	4171.262	4170.526	4169.790	4169.053	4168.317	4167.581	4168.563	4169.545	4170.526
5.0	4177.215	4175.881	4174.548	4173.214	4171.881	4170.547	4169.214	4170.419	4171.624	4172.829
7.5	4152.825	4153.314	4153.803	4154.292	4154.780	4155.269	4155.758	4158.735	4161.712	4164.688
10.0	4134.406	4135.876	4137.346	4138.816	4140.286	4141.756	4143.226	4146.338	4149.449	4152.561
12.5	4108.996	4111.504	4114.012	4116.520	4119.027	4121.535	4124.043	4125.551	4127.060	4128.568
15.0	4072.887	4076.478	4080.069	4083.660	4087.251	4090.842	4094.433	4095.509	4096.584	4097.660
17.5	4028.643	4031.493	4034.344	4037.194	4040.044	4042.894	4045.745	4048.291	4050.838	4053.385
20.0	3985.663	3988.124	3990.584	3993.045	3995.505	3997.966	4000.426	4002.090	4003.753	4005.417
22.5	3924.201	3928.781	3933.361	3937.941	3942.520	3947.100	3951.680	3953.867	3956.054	3958.241
25.0	3857.087	3862.962	3868.838	3874.713	3880.588	3886.464	3892.339	3894.459	3896.579	3898.699
27.5	3782.184	3788.669	3795.155	3801.640	3808.126	3814.611	3821.097	3822.570	3824.044	3825.517
30.0	3700.553	3707.779	3715.006	3722.232	3729.458	3736.685	3743.911	3745.208	3746.506	3747.803
32.5	3607.515	3614.514	3621.513	3628.513	3635.512	3642.512	3649.511	3651.490	3653.468	3655.447
35.0	3512.152	3518.563	3524.973	3531.384	3537.795	3544.206	3550.617	3552.970	3555.323	3557.676
37.5	3394.977	3400.873	3406.770	3412.666	3418.562	3424.459	3430.355	3435.250	3440.146	3445.041
40.0	3280.378	3286.843	3293.307	3299.772	3306.236	3312.701	3319.165	3324.029	3328.893	3333.757
42.5	3149.207	3157.660	3166.112	3174.565	3183.017	3191.470	3199.922	3204.727	3209.532	3214.337
45.0	3008.887	3018.080	3027.274	3036.467	3045.660	3054.854	3064.047	3069.970	3075.893	3081.816
47.5	2870.632	2881.198	2891.765	2902.331	2912.898	2923.464	2934.031	2939.234	2944.438	2949.642
50.0	2716.472	2727.552	2738.632	2749.712	2760.791	2771.871	2782.951	2788.375	2793.799	2799.223
52.5	2544.633	2555.630	2566.627	2577.624	2588.621	2599.618	2610.615	2614.199	2617.784	2621.368
55.0	2351.790	2363.917	2376.045	2388.172	2400.300	2412.427	2424.555	2425.565	2426.576	2427.586
57.5	2129.804	2142.332	2154.860	2167.388	2179.917	2192.445	2204.973	2203.494	2202.014	2200.535
60.0	1874.642	1887.537	1900.432	1913.327	1926.223	1939.118	1952.013	1947.252	1942.491	1937.729

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CANDELA TABULATION - (Cont.)

62.5	1605.193	1615.386	1625.580	1635.774	1645.968	1656.161	1666.355	1660.416	1654.477	1648.538
65.0	1332.821	1339.829	1346.837	1353.845	1360.854	1367.862	1374.870	1368.429	1361.988	1355.546
67.5	1075.790	1078.973	1082.157	1085.341	1088.525	1091.709	1094.893	1088.273	1081.654	1075.035
70.0	841.641	841.926	842.210	842.495	842.780	843.064	843.349	837.615	831.881	826.147
72.5	634.784	633.254	631.723	630.192	628.661	627.131	625.600	621.167	616.735	612.302
75.0	458.976	456.445	453.915	451.384	448.854	446.323	443.793	440.009	436.226	432.442
77.5	317.236	314.408	311.580	308.752	305.924	303.096	300.269	296.742	293.215	289.688
80.0	203.178	200.477	197.777	195.076	192.375	189.674	186.973	183.712	180.451	177.191
82.5	117.855	115.060	112.265	109.469	106.674	103.879	101.084	98.293	95.503	92.713
85.0	56.644	53.976	51.307	48.639	45.971	43.303	40.635	38.673	36.710	34.748
87.5	10.552	9.732	8.911	8.090	7.269	6.449	5.628	5.294	4.959	4.625
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.175	0.146	0.117	0.088	0.058	0.029	0.000	0.000	0.000	0.000
115.0	0.311	0.278	0.246	0.213	0.180	0.148	0.115	0.102	0.089	0.077
117.5	0.444	0.428	0.412	0.395	0.379	0.362	0.346	0.350	0.353	0.357
120.0	0.616	0.590	0.565	0.539	0.513	0.488	0.462	0.456	0.450	0.444
122.5	0.714	0.691	0.668	0.646	0.623	0.600	0.578	0.568	0.559	0.550
125.0	1.004	0.954	0.904	0.854	0.803	0.753	0.703	0.702	0.701	0.700
127.5	1.227	1.172	1.117	1.062	1.007	0.952	0.898	0.918	0.938	0.959
130.0	1.435	1.409	1.384	1.358	1.332	1.307	1.281	1.288	1.295	1.302
132.5	1.605	1.580	1.554	1.529	1.504	1.479	1.454	1.474	1.494	1.514
135.0	1.687	1.668	1.650	1.631	1.612	1.594	1.575	1.608	1.640	1.673
137.5	1.781	1.756	1.730	1.704	1.678	1.653	1.627	1.683	1.739	1.795
140.0	2.051	2.000	1.948	1.897	1.846	1.794	1.743	1.802	1.862	1.921
142.5	2.275	2.260	2.245	2.230	2.214	2.199	2.184	2.217	2.249	2.282
145.0	2.439	2.440	2.442	2.443	2.444	2.445	2.446	2.492	2.537	2.583
147.5	2.665	2.663	2.660	2.658	2.656	2.653	2.651	2.713	2.776	2.838
150.0	3.003	3.017	3.031	3.045	3.059	3.073	3.087	3.120	3.152	3.185
152.5	3.255	3.276	3.297	3.318	3.339	3.360	3.381	3.413	3.446	3.479
155.0	3.703	3.737	3.770	3.804	3.838	3.872	3.906	3.920	3.934	3.948
157.5	4.098	4.099	4.101	4.102	4.103	4.104	4.106	4.110	4.115	4.119
160.0	4.186	4.188	4.191	4.193	4.195	4.198	4.200	4.227	4.254	4.280
162.5	4.428	4.412	4.397	4.382	4.367	4.352	4.337	4.380	4.423	4.466
165.0	4.690	4.685	4.681	4.676	4.671	4.667	4.662	4.714	4.767	4.819
167.5	5.097	5.092	5.087	5.082	5.076	5.071	5.066	5.100	5.134	5.168
170.0	5.302	5.292	5.281	5.271	5.260	5.250	5.239	5.318	5.398	5.477
172.5	5.624	5.614	5.604	5.594	5.584	5.574	5.565	5.618	5.671	5.724
175.0	6.083	6.060	6.036	6.013	5.990	5.966	5.943	5.984	6.025	6.065
177.5	6.132	6.125	6.118	6.111	6.104	6.097	6.090	6.124	6.158	6.193
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

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	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4171.508	4172.490	4173.472	4174.453	4175.435	4176.417	4176.390	4176.363	4176.337	4176.310
5.0	4174.034	4175.240	4176.445	4177.650	4178.855	4180.060	4179.560	4179.059	4178.559	4178.058
7.5	4167.665	4170.642	4173.619	4176.595	4179.572	4182.549	4180.132	4177.714	4175.297	4172.880

IES ROAD REPORT
PHOTOMETRIC FILENAME : SFCL-WB-LED-PL1-50.IES

CANDELA TABULATION - (Cont.)

10.0	4155.672	4158.784	4161.895	4165.007	4168.118	4171.230	4167.210	4163.189	4159.169	4155.149
12.5	4130.077	4131.585	4133.094	4134.602	4136.111	4137.619	4133.965	4130.311	4126.657	4123.003
15.0	4098.736	4099.811	4100.887	4101.963	4103.038	4104.114	4103.011	4101.909	4100.806	4099.704
17.5	4055.932	4058.479	4061.026	4063.572	4066.119	4068.666	4068.672	4068.678	4068.683	4068.689
20.0	4007.081	4008.744	4010.408	4012.072	4013.735	4015.399	4016.763	4018.127	4019.491	4020.855
22.5	3960.428	3962.614	3964.801	3966.988	3969.175	3971.362	3971.611	3971.859	3972.108	3972.356
25.0	3900.819	3902.938	3905.058	3907.178	3909.298	3911.418	3911.525	3911.633	3911.740	3911.847
27.5	3826.991	3828.464	3829.938	3831.411	3832.885	3834.358	3835.994	3837.631	3839.267	3840.903
30.0	3749.100	3750.398	3751.695	3752.992	3754.290	3755.587	3756.814	3758.042	3759.269	3760.496
32.5	3657.426	3659.404	3661.383	3663.362	3665.340	3667.319	3667.953	3668.586	3669.220	3669.853
35.0	3560.029	3562.383	3564.736	3567.089	3569.442	3571.795	3571.779	3571.762	3571.746	3571.730
37.5	3449.936	3454.832	3459.727	3464.622	3469.518	3474.413	3474.013	3473.613	3473.213	3472.812
40.0	3338.621	3343.484	3348.348	3353.212	3358.076	3362.940	3362.450	3361.960	3361.470	3360.980
42.5	3219.142	3223.946	3228.751	3233.556	3238.361	3243.166	3243.641	3244.117	3244.592	3245.068
45.0	3087.739	3093.663	3099.586	3105.509	3111.432	3117.355	3117.479	3117.602	3117.726	3117.850
47.5	2954.846	2960.050	2965.254	2970.458	2975.662	2980.866	2980.243	2979.621	2978.998	2978.376
50.0	2804.647	2810.070	2815.494	2820.918	2826.342	2831.766	2829.905	2828.044	2826.183	2824.322
52.5	2624.953	2628.538	2632.122	2635.707	2639.291	2642.876	2640.112	2637.347	2634.583	2631.818
55.0	2428.596	2429.607	2430.617	2431.627	2432.638	2433.648	2429.604	2425.561	2421.517	2417.473
57.5	2199.056	2197.576	2196.097	2194.618	2193.138	2191.659	2185.431	2179.204	2172.976	2166.748
60.0	1932.968	1928.207	1923.446	1918.684	1913.923	1909.162	1903.542	1897.922	1892.303	1886.683
62.5	1642.599	1636.660	1630.721	1624.782	1618.843	1612.905	1608.336	1603.767	1599.199	1594.630
65.0	1349.105	1342.664	1336.223	1329.781	1323.340	1316.899	1312.412	1307.925	1303.438	1298.951
67.5	1068.416	1061.797	1055.178	1048.559	1041.940	1035.321	1031.500	1027.680	1023.860	1020.040
70.0	820.413	814.678	808.944	803.210	797.476	791.742	788.138	784.534	780.930	777.326
72.5	607.869	603.436	599.004	594.571	590.138	585.706	582.303	578.900	575.498	572.095
75.0	428.659	424.875	421.092	417.308	413.525	409.741	406.842	403.943	401.044	398.145
77.5	286.161	282.634	279.108	275.581	272.054	268.527	266.446	264.364	262.283	260.202
80.0	173.930	170.669	167.408	164.148	160.887	157.626	156.058	154.490	152.922	151.354
82.5	89.923	87.133	84.343	81.553	78.763	75.973	74.893	73.814	72.735	71.656
85.0	32.786	30.823	28.861	26.899	24.936	22.974	22.429	21.884	21.339	20.794
87.5	4.291	3.957	3.622	3.288	2.954	2.620	2.565	2.510	2.455	2.400
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.064	0.051	0.038	0.026	0.013	0.000	0.000	0.000	0.000	0.000
117.5	0.360	0.364	0.367	0.371	0.374	0.378	0.361	0.345	0.329	0.312
120.0	0.438	0.433	0.427	0.421	0.415	0.409	0.402	0.395	0.388	0.381
122.5	0.540	0.531	0.522	0.512	0.503	0.494	0.516	0.538	0.560	0.582
125.0	0.699	0.697	0.696	0.695	0.694	0.693	0.744	0.796	0.847	0.898
127.5	0.979	0.999	1.020	1.040	1.061	1.081	1.113	1.145	1.177	1.209
130.0	1.309	1.316	1.323	1.330	1.337	1.344	1.370	1.395	1.421	1.447
132.5	1.533	1.553	1.573	1.593	1.613	1.633	1.645	1.658	1.671	1.684
135.0	1.706	1.738	1.771	1.804	1.836	1.869	1.900	1.932	1.963	1.995
137.5	1.851	1.907	1.963	2.019	2.075	2.132	2.151	2.170	2.189	2.208
140.0	1.981	2.040	2.100	2.159	2.219	2.278	2.290	2.301	2.313	2.325
142.5	2.314	2.347	2.380	2.412	2.445	2.478	2.507	2.536	2.565	2.594
145.0	2.628	2.674	2.719	2.765	2.810	2.856	2.894	2.933	2.971	3.010
147.5	2.901	2.963	3.026	3.088	3.151	3.213	3.235	3.257	3.280	3.302

IES ROAD REPORT
PHOTOMETRIC FILENAME : SFCL-WB-LED-PL1-50.IES

CANDELA TABULATION - (Cont.)

150.0	3.218	3.250	3.283	3.316	3.348	3.381	3.401	3.421	3.440	3.460
152.5	3.511	3.544	3.577	3.610	3.642	3.675	3.710	3.745	3.780	3.815
155.0	3.962	3.976	3.990	4.004	4.018	4.032	4.044	4.055	4.067	4.079
157.5	4.124	4.129	4.133	4.138	4.142	4.147	4.175	4.203	4.231	4.259
160.0	4.307	4.334	4.361	4.387	4.414	4.441	4.466	4.490	4.515	4.539
162.5	4.509	4.552	4.596	4.639	4.682	4.725	4.754	4.782	4.811	4.839
165.0	4.872	4.924	4.977	5.029	5.082	5.134	5.140	5.146	5.152	5.158
167.5	5.201	5.235	5.269	5.303	5.337	5.371	5.392	5.414	5.435	5.457
170.0	5.556	5.636	5.715	5.794	5.874	5.953	5.958	5.962	5.967	5.972
172.5	5.777	5.830	5.883	5.936	5.989	6.043	6.051	6.060	6.069	6.078
175.0	6.106	6.147	6.188	6.228	6.269	6.310	6.328	6.345	6.363	6.380
177.5	6.227	6.262	6.296	6.331	6.365	6.400	6.428	6.456	6.484	6.512
180.0	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000

Vert. Angles **Horizontal Angles**

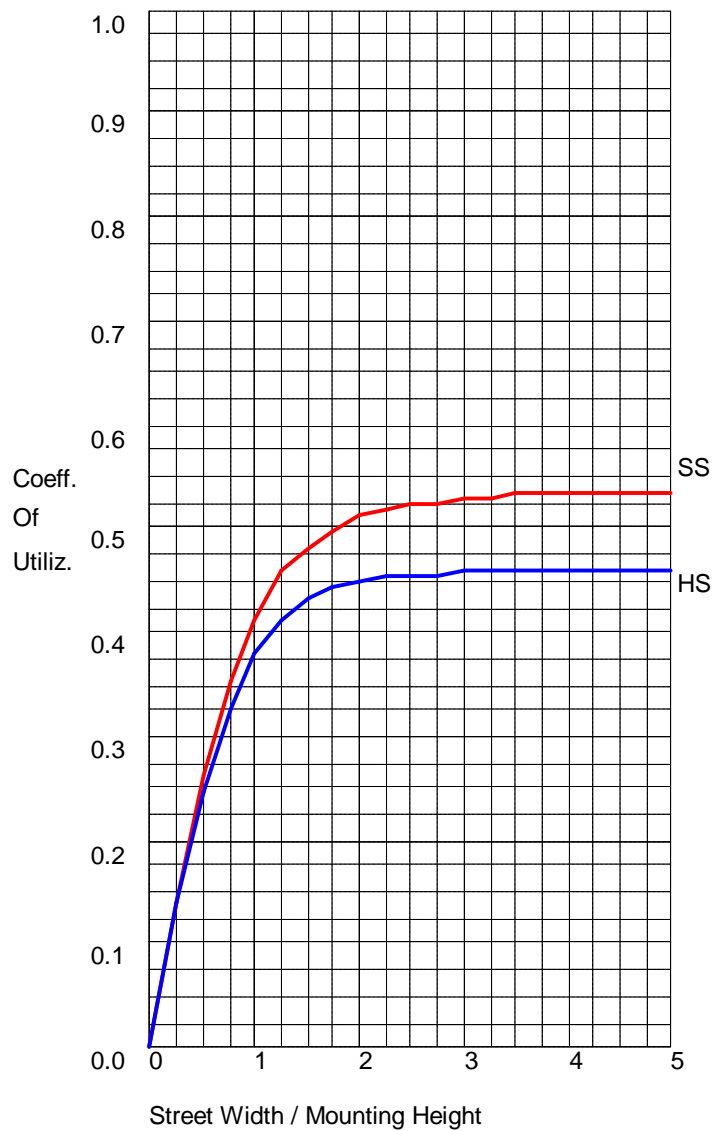
	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	4160.110	4160.110	4160.110	4160.110	4160.110
2.5	4176.283	4176.256	4176.229	4176.202	4176.176
5.0	4177.558	4177.057	4176.557	4176.056	4175.556
7.5	4170.462	4168.045	4165.628	4163.210	4160.793
10.0	4151.128	4147.108	4143.088	4139.067	4135.047
12.5	4119.349	4115.695	4112.041	4108.387	4104.733
15.0	4098.601	4097.499	4096.396	4095.294	4094.191
17.5	4068.695	4068.701	4068.706	4068.712	4068.718
20.0	4022.218	4023.582	4024.946	4026.310	4027.674
22.5	3972.605	3972.853	3973.102	3973.350	3973.599
25.0	3911.955	3912.062	3912.169	3912.277	3912.384
27.5	3842.539	3844.176	3845.812	3847.448	3849.085
30.0	3761.724	3762.951	3764.178	3765.406	3766.633
32.5	3670.487	3671.120	3671.754	3672.387	3673.021
35.0	3571.713	3571.697	3571.681	3571.664	3571.648
37.5	3472.412	3472.012	3471.612	3471.212	3470.812
40.0	3360.490	3360.000	3359.510	3359.020	3358.530
42.5	3245.543	3246.019	3246.494	3246.970	3247.445
45.0	3117.973	3118.097	3118.221	3118.344	3118.468
47.5	2977.754	2977.131	2976.509	2975.886	2975.264
50.0	2822.462	2820.601	2818.740	2816.879	2815.018
52.5	2629.054	2626.289	2623.525	2620.760	2617.996
55.0	2413.430	2409.386	2405.342	2401.299	2397.255
57.5	2160.521	2154.293	2148.065	2141.838	2135.610
60.0	1881.063	1875.443	1869.824	1864.204	1858.584
62.5	1590.061	1585.493	1580.924	1576.355	1571.787
65.0	1294.464	1289.977	1285.490	1281.003	1276.516
67.5	1016.219	1012.399	1008.579	1004.759	1000.939
70.0	773.723	770.119	766.515	762.911	759.307
72.5	568.693	565.290	561.888	558.485	555.083
75.0	395.245	392.346	389.447	386.548	383.649
77.5	258.120	256.039	253.958	251.876	249.795
80.0	149.786	148.218	146.650	145.082	143.514
82.5	70.577	69.498	68.418	67.339	66.260
85.0	20.250	19.705	19.160	18.615	18.070
87.5	2.345	2.291	2.236	2.181	2.126
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000

IES ROAD REPORT
PHOTOMETRIC FILENAME : SFCL-WB-LED-PL1-50.IES

CANDELA TABULATION - (Cont.)

97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.296	0.280	0.264	0.247	0.231
120.0	0.374	0.367	0.360	0.353	0.346
122.5	0.604	0.626	0.648	0.670	0.693
125.0	0.950	1.001	1.052	1.104	1.155
127.5	1.242	1.274	1.306	1.338	1.370
130.0	1.472	1.498	1.524	1.549	1.575
132.5	1.697	1.710	1.722	1.735	1.748
135.0	2.026	2.058	2.089	2.121	2.152
137.5	2.228	2.247	2.266	2.285	2.305
140.0	2.336	2.348	2.360	2.371	2.383
142.5	2.624	2.653	2.682	2.711	2.741
145.0	3.048	3.087	3.125	3.164	3.202
147.5	3.324	3.346	3.368	3.390	3.413
150.0	3.480	3.500	3.519	3.539	3.559
152.5	3.850	3.885	3.920	3.955	3.990
155.0	4.090	4.102	4.114	4.125	4.137
157.5	4.287	4.315	4.343	4.371	4.400
160.0	4.564	4.588	4.613	4.637	4.662
162.5	4.868	4.896	4.925	4.953	4.982
165.0	5.163	5.169	5.175	5.181	5.187
167.5	5.478	5.500	5.521	5.543	5.565
170.0	5.976	5.981	5.986	5.990	5.995
172.5	6.086	6.095	6.104	6.113	6.122
175.0	6.398	6.415	6.433	6.450	6.468
177.5	6.540	6.568	6.596	6.624	6.652
180.0	6.000	6.000	6.000	6.000	6.000

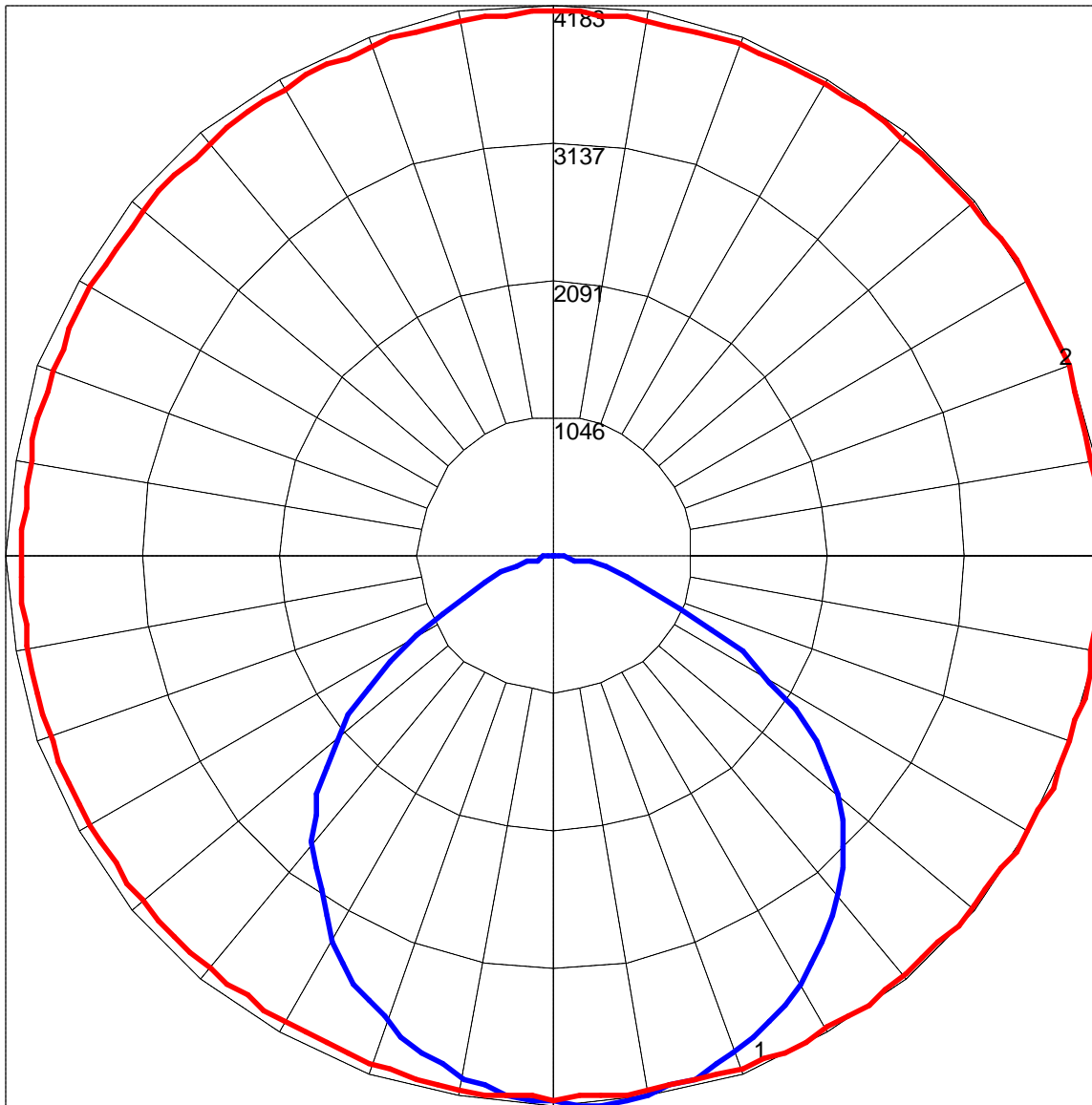
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

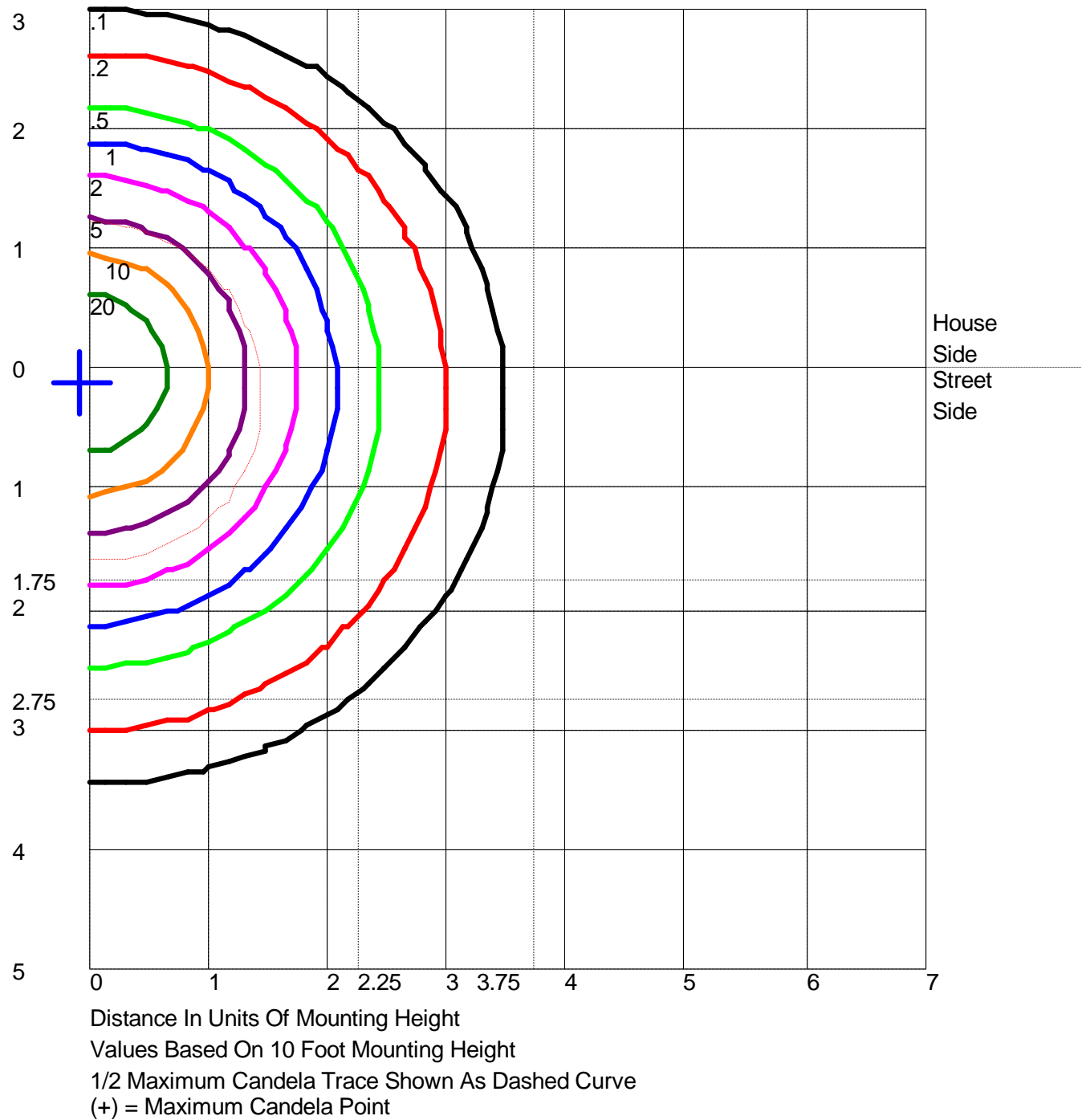
	Lumens	Percent Of Luminaire
Downward Street Side	5875.0	53.6
Downward House Side	5064.2	46.2
Downward Total	10939.2	99.9
Upward Street Side	4.5	0.0
Upward House Side	7.8	0.1
Upward Total	12.3	0.1
Total Flux	10951.5	100.0

POLAR GRAPH

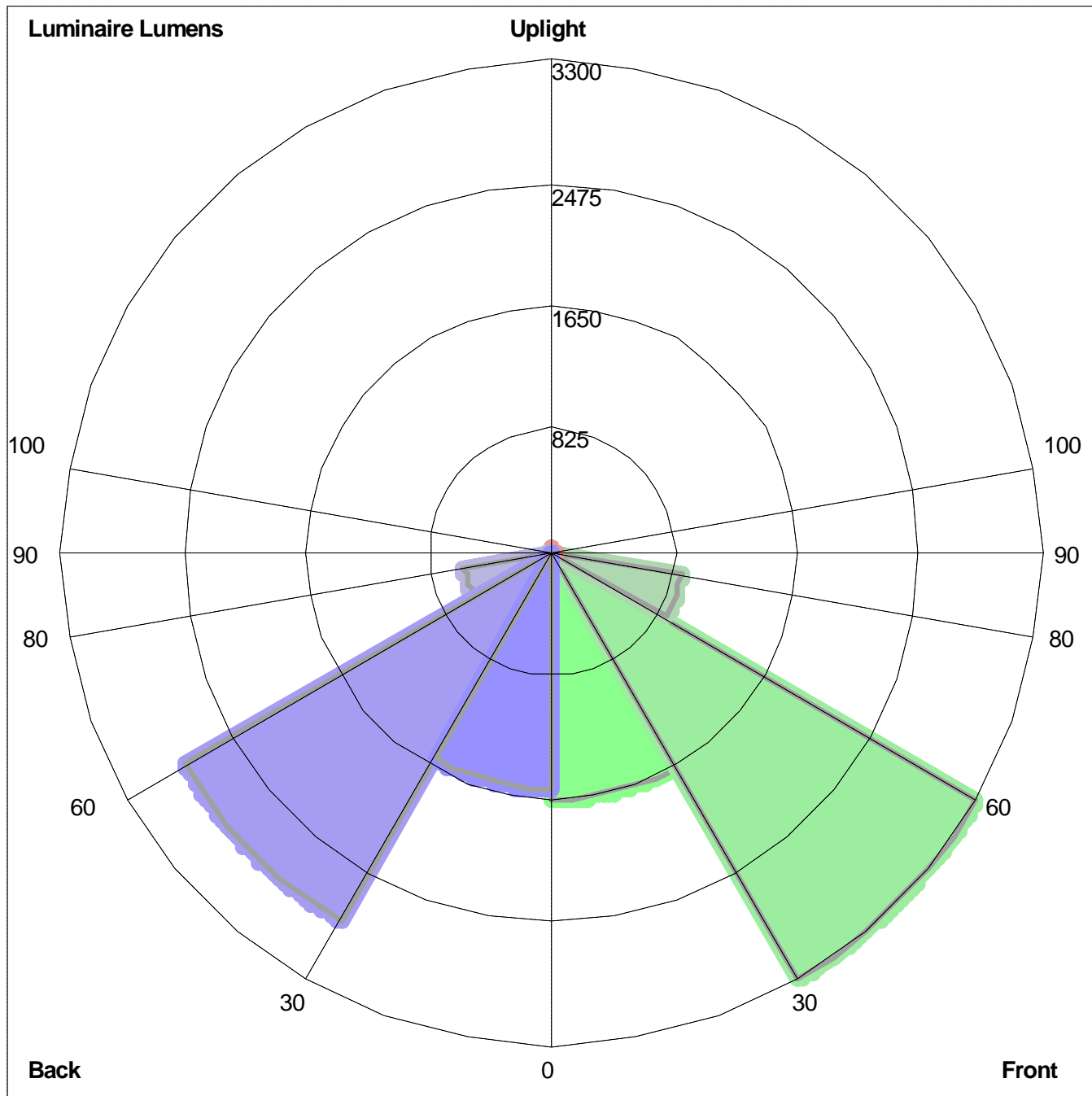


Maximum Candela = 4182.549 Located At Horizontal Angle = 337.5, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (337.5 - 157.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1662.8, Medium=3299.5, High=879.2, Very High=33.5
Back: Low=1590.5, Medium=2848.1, High=601.9, Very High=23.7
Uplight: Low=0.0, High=12.2

BUG Rating : B3-U2-G2