



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 5-18-2018

[TESTLAB] LIGHT LABORATORY, INC.

[ISSUE DATE] 2/23/2015

[MANUFAC] PRUDENTIAL LTG.

[LUMCAT] ZIS-14-LED4-MO-04-SAL

[LUMINAIRE] 1-3/4"L. X 48-1/4"W. X 3"H. LED LINEAR DIRECT LUMINAIRE DIFFUSED LENS

[LAMP CAT] N/A

[BALLAST] INPUT: 120-277VAC, 0.31-0.15A, 50/60HZ OUTPUT: 350-1050mA, 10-55VDC, 30W

[_AGI32] File was generated from AGI32

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5935
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	55
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.15 ft
Luminous Width (90-270)	1.14 ft
Luminous Height	0.14 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1571	1578	1472
55	1775	1768	1611
65	2143	2073	1849
75	2971	2666	2325
85	6189	4341	3591

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CANDELA TABULATION

	<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	550.943	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	551.010	550.980	550.950	550.920	550.890	550.852	550.822	550.793	550.763	550.725
5.0	551.107	551.048	550.987	550.928	550.867	550.808	550.747	550.972	551.220	551.655
7.5	552.885	552.788	552.683	552.563	552.420	552.750	553.065	553.357	553.635	553.890
10.0	555.195	555.075	554.940	554.798	555.300	556.013	556.185	556.590	556.965	557.378
12.5	556.102	555.952	555.795	556.140	556.778	557.400	558.008	558.615	559.380	560.122
15.0	557.212	557.085	556.680	557.430	558.195	558.930	559.717	560.663	561.450	562.013
17.5	556.530	556.335	556.515	557.475	558.413	559.365	560.587	561.577	562.395	563.242
20.0	556.028	555.773	556.275	557.370	558.450	559.740	560.962	561.945	562.972	564.038
22.5	553.852	553.628	554.505	555.810	557.160	558.832	560.115	561.465	562.898	564.322
25.0	551.565	551.325	552.548	553.995	555.668	557.273	558.840	560.310	561.893	563.452
27.5	547.928	547.680	549.308	550.995	553.020	554.753	556.605	558.540	560.438	561.900
30.0	544.043	543.960	545.783	547.837	549.758	551.753	553.785	555.908	557.692	559.440
32.5	538.913	539.048	541.087	543.285	545.550	547.867	550.365	552.540	554.610	556.710
35.0	533.505	533.835	536.048	538.425	540.773	543.352	545.955	548.303	550.717	553.163
37.5	527.190	527.730	530.145	532.710	535.418	538.342	540.952	543.668	546.405	548.692
40.0	520.447	521.175	523.732	526.425	529.388	532.538	535.372	538.447	541.230	543.653
42.5	513.128	514.080	516.840	519.727	523.013	526.178	529.335	532.560	535.380	538.095
45.0	505.545	506.707	509.632	512.678	516.278	519.465	522.960	526.117	529.320	531.690
47.5	497.220	498.592	501.570	504.892	508.620	512.070	515.737	519.045	522.263	524.977
50.0	488.377	490.020	493.087	496.710	500.580	504.413	508.215	511.665	514.612	517.447
52.5	479.250	481.170	484.447	488.257	492.188	496.155	500.002	503.572	506.842	509.655
55.0	469.785	471.945	475.245	479.460	483.630	487.702	491.685	495.165	498.420	501.315
57.5	459.915	462.277	465.810	470.190	474.442	478.635	482.535	486.315	489.450	492.322
60.0	449.595	452.212	455.805	460.462	464.858	469.118	472.800	475.950	479.137	481.950
62.5	438.720	441.615	445.313	450.030	454.170	458.017	461.730	465.090	468.098	471.360
65.0	427.560	430.777	434.618	439.425	442.770	446.303	450.007	453.757	457.215	460.522
67.5	416.490	419.887	423.585	427.582	430.950	435.233	439.155	442.785	446.243	449.842
70.0	405.202	408.810	412.072	415.748	419.527	424.072	428.475	432.533	435.930	439.582
72.5	393.330	396.848	399.413	403.755	408.892	413.700	417.743	421.890	425.295	428.947
75.0	381.270	384.390	387.105	392.205	397.252	402.488	406.305	409.973	413.295	417.060
77.5	368.288	370.913	374.820	380.775	385.553	390.075	394.245	397.837	400.822	404.520
80.0	355.215	357.810	362.955	368.408	373.147	377.940	381.585	385.522	388.673	391.755
82.5	342.173	345.877	351.060	356.842	361.087	365.880	369.510	373.050	376.147	379.748
85.0	329.175	333.975	338.438	344.048	348.615	353.070	356.978	360.188	363.345	367.132
87.5	317.370	322.522	327.202	332.220	336.660	341.077	345.210	348.368	351.563	355.327
90.0	312.293	314.145	320.190	325.373	330.750	335.970	340.957	345.330	349.373	353.918
92.5	317.370	322.522	327.202	332.220	336.660	341.077	345.210	348.368	351.563	355.327
95.0	329.175	333.975	338.438	344.048	348.615	353.070	356.978	360.188	363.345	367.132
97.5	342.173	345.877	351.060	356.842	361.087	365.880	369.510	373.050	376.147	379.748
100.0	355.215	357.810	362.955	368.408	373.147	377.940	381.585	385.522	388.673	391.755
102.5	368.288	370.913	374.820	380.775	385.553	390.075	394.245	397.837	400.822	404.520
105.0	381.270	384.390	387.105	392.205	397.252	402.488	406.305	409.973	413.295	417.060
107.5	393.330	396.848	399.413	403.755	408.892	413.700	417.743	421.890	425.295	428.947
110.0	405.202	408.810	412.072	415.748	419.527	424.072	428.475	432.533	435.930	439.582
112.5	416.490	419.887	423.585	427.582	430.950	435.233	439.155	442.777	446.243	449.842
115.0	427.560	430.777	434.618	439.425	442.770	446.303	450.007	453.757	457.215	460.522
117.5	438.720	441.623	445.313	450.030	454.170	458.017	461.730	465.090	468.098	471.360
120.0	449.595	452.212	455.805	460.462	464.858	469.118	472.800	475.950	479.137	481.950
122.5	459.915	462.277	465.810	470.190	474.442	478.635	482.535	486.315	489.450	492.322
125.0	469.785	471.945	475.245	479.460	483.630	487.702	491.685	495.165	498.420	501.315
127.5	479.250	481.170	484.447	488.257	492.188	496.155	500.002	503.572	506.842	509.655
130.0	488.377	490.020	493.087	496.710	500.580	504.413	508.215	511.665	514.612	517.447
132.5	497.220	498.592	501.570	504.892	508.620	512.070	515.737	519.045	522.263	524.977

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PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

135.0	505.545	506.707	509.632	512.678	516.278	519.465	522.960	526.117	529.320	531.690
137.5	513.128	514.080	516.840	519.727	523.013	526.178	529.335	532.560	535.380	538.095
140.0	520.447	521.175	523.732	526.425	529.388	532.538	535.372	538.447	541.230	543.653
142.5	527.190	527.730	530.145	532.710	535.418	538.342	540.952	543.668	546.405	548.692
145.0	533.505	533.835	536.048	538.425	540.773	543.352	545.955	548.303	550.717	553.163
147.5	538.913	539.048	541.087	543.285	545.550	547.867	550.365	552.540	554.610	556.710
150.0	544.043	543.960	545.783	547.837	549.758	551.753	553.785	555.908	557.692	559.440
152.5	547.928	547.680	549.308	550.995	553.020	554.753	556.605	558.540	560.438	561.900
155.0	551.565	551.325	552.548	553.995	555.668	557.273	558.840	560.310	561.893	563.452
157.5	553.852	553.628	554.505	555.810	557.160	558.832	560.115	561.465	562.898	564.322
160.0	556.028	555.773	556.275	557.370	558.450	559.740	560.962	561.945	562.972	564.038
162.5	556.530	556.335	556.515	557.475	558.413	559.365	560.587	561.577	562.395	563.242
165.0	557.212	557.085	556.680	557.430	558.195	558.930	559.717	560.663	561.450	562.013
167.5	556.102	555.952	555.795	556.140	556.778	557.400	558.008	558.615	559.380	560.122
170.0	555.195	555.075	554.940	554.798	555.300	556.013	556.185	556.590	556.965	557.378
172.5	552.885	552.788	552.683	552.563	552.420	552.750	553.065	553.357	553.635	553.890
175.0	551.107	551.048	550.987	550.928	550.867	550.808	550.747	550.972	551.220	551.655
177.5	551.010	550.980	550.950	550.920	550.890	550.852	550.822	550.793	550.763	550.725
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

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	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	550.695	550.665	550.628	550.680	550.740	550.845	550.942	551.033	551.122	551.205
5.0	551.707	551.940	552.165	552.383	552.600	552.803	552.997	553.185	553.673	553.553
7.5	554.122	554.332	554.565	554.835	555.090	555.308	555.503	555.832	555.847	556.253
10.0	557.850	558.293	558.712	558.840	558.975	559.080	559.178	559.283	559.357	559.395
12.5	560.640	561.060	561.450	561.885	562.320	562.755	562.935	563.070	563.160	563.220
15.0	562.567	563.153	563.730	564.263	564.765	565.245	565.680	565.965	566.115	566.273
17.5	564.120	564.975	566.115	566.565	567.053	567.345	567.600	567.847	568.065	568.245
20.0	565.065	566.070	566.903	567.503	568.192	568.643	569.235	569.737	569.910	570.000
22.5	565.740	566.707	567.510	568.230	568.928	569.580	570.067	570.180	570.217	570.225
25.0	564.638	565.913	567.015	568.200	569.235	569.692	569.962	570.053	570.097	570.097
27.5	563.355	564.803	566.138	567.097	567.773	568.425	569.040	569.482	569.783	569.565
30.0	561.232	563.018	564.210	565.192	566.145	566.947	567.457	567.720	568.087	568.043
32.5	558.900	560.183	561.435	562.665	563.992	564.390	564.952	565.500	565.837	566.055
35.0	555.150	556.620	558.180	559.485	560.490	561.352	562.418	562.673	563.145	563.115
37.5	550.747	552.660	554.183	555.435	556.688	557.955	558.690	559.327	559.575	559.688
40.0	545.842	547.620	549.293	551.168	552.697	553.688	554.543	555.232	555.720	555.840
42.5	540.232	542.070	543.908	545.655	547.305	548.903	550.253	550.523	550.920	551.138
45.0	533.835	536.033	537.997	539.947	541.688	542.955	544.110	545.145	545.760	545.587
47.5	527.482	529.530	531.645	533.685	535.515	536.775	538.192	538.658	538.987	539.130
50.0	519.945	522.570	524.888	526.920	528.735	530.085	530.933	531.548	532.080	532.163
52.5	512.258	514.905	517.342	519.630	521.085	522.472	523.785	524.160	524.572	524.722
55.0	504.405	506.947	509.325	511.267	513.060	514.313	515.400	516.383	516.862	516.742
57.5	495.075	497.993	500.257	502.215	504.038	505.717	506.895	507.712	507.998	507.990
60.0	484.965	487.875	490.402	492.360	494.348	495.990	497.235	498.075	498.555	498.465
62.5	475.387	477.825	480.082	481.935	483.750	485.400	486.975	487.725	488.168	488.257
65.0	464.250	467.865	469.260	471.022	472.942	474.555	476.123	476.850	477.262	477.397
67.5	453.255	456.000	457.928	459.705	461.663	463.170	464.587	465.473	465.743	466.118
70.0	443.152	445.567	447.480	448.905	450.165	451.538	452.925	454.125	454.132	454.538
72.5	432.960	435.510	436.567	437.670	438.563	439.665	440.715	441.637	441.870	441.975
75.0	420.473	423.555	424.950	425.985	426.442	427.305	428.220	428.820	429.082	429.135
77.5	407.235	410.152	412.470	413.460	413.910	414.817	415.598	416.085	416.430	416.377
80.0	394.582	396.870	398.947	399.915	400.567	401.197	402.000	402.712	403.320	402.967

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PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

82.5	383.115	384.285	385.575	386.370	387.067	387.548	388.035	388.748	389.595	389.017
85.0	370.688	371.370	372.210	372.848	374.040	374.288	375.337	376.005	377.085	376.215
87.5	359.243	359.535	359.858	360.645	361.462	362.152	362.835	364.103	365.438	364.223
90.0	358.567	363.015	364.223	365.423	367.058	368.798	370.313	372.007	373.275	373.770
92.5	359.243	359.535	359.858	360.645	361.462	362.152	362.835	364.103	365.438	364.223
95.0	370.688	371.370	372.210	372.848	374.040	374.288	375.337	376.005	377.085	376.215
97.5	383.115	384.285	385.575	386.370	387.067	387.548	388.035	388.748	389.595	389.017
100.0	394.582	396.870	398.947	399.915	400.567	401.197	402.000	402.712	403.320	402.967
102.5	407.235	410.152	412.470	413.460	413.910	414.817	415.598	416.085	416.430	416.377
105.0	420.473	423.555	424.950	425.985	426.442	427.305	428.212	428.820	429.082	429.135
107.5	432.960	435.510	436.567	437.670	438.563	439.665	440.715	441.637	441.870	441.975
110.0	443.152	445.567	447.480	448.905	450.165	451.538	452.925	454.125	454.132	454.538
112.5	453.255	456.000	457.928	459.705	461.663	463.170	464.587	465.473	465.743	466.118
115.0	464.250	467.865	469.260	471.022	472.942	474.555	476.123	476.850	477.262	477.397
117.5	475.387	477.825	480.082	481.935	483.750	485.400	486.975	487.725	488.168	488.257
120.0	484.965	487.875	490.402	492.360	494.348	495.990	497.235	498.075	498.555	498.465
122.5	495.075	497.993	500.257	502.215	504.038	505.717	506.895	507.712	507.998	507.990
125.0	504.405	506.947	509.325	511.267	513.060	514.313	515.400	516.383	516.862	516.742
127.5	512.258	514.905	517.342	519.630	521.085	522.472	523.785	524.160	524.572	524.722
130.0	519.945	522.570	524.888	526.920	528.735	530.085	530.933	531.548	532.080	532.163
132.5	527.482	529.530	531.645	533.685	535.515	536.775	538.192	538.658	538.987	539.130
135.0	533.835	536.033	537.997	539.947	541.688	542.955	544.110	545.145	545.760	545.587
137.5	540.232	542.070	543.908	545.655	547.305	548.903	550.253	550.523	550.920	551.138
140.0	545.842	547.620	549.293	551.168	552.697	553.688	554.543	555.232	555.720	555.840
142.5	550.747	552.660	554.183	555.435	556.688	557.955	558.690	559.327	559.575	559.688
145.0	555.150	556.620	558.180	559.485	560.490	561.352	562.418	562.673	563.145	563.115
147.5	558.900	560.183	561.435	562.665	563.992	564.390	564.952	565.500	565.837	566.055
150.0	561.232	563.018	564.210	565.192	566.145	566.947	567.457	567.720	568.087	568.043
152.5	563.355	564.803	566.138	567.097	567.773	568.425	569.040	569.482	569.783	569.565
155.0	564.638	565.913	567.015	568.200	569.235	569.692	569.962	570.053	570.097	570.097
157.5	565.740	566.707	567.510	568.230	568.928	569.580	570.067	570.180	570.217	570.225
160.0	565.065	566.070	566.903	567.503	568.192	568.643	569.235	569.737	569.910	570.000
162.5	564.120	564.975	566.115	566.565	567.053	567.345	567.600	567.847	568.065	568.245
165.0	562.567	563.153	563.730	564.263	564.765	565.245	565.680	565.965	566.115	566.273
167.5	560.640	561.060	561.450	561.885	562.320	562.755	562.935	563.070	563.160	563.220
170.0	557.850	558.293	558.712	558.840	558.975	559.080	559.178	559.283	559.357	559.395
172.5	554.122	554.332	554.558	554.835	555.090	555.308	555.503	555.832	555.847	556.253
175.0	551.707	551.940	552.165	552.383	552.600	552.803	552.997	553.185	553.673	553.553
177.5	550.695	550.665	550.628	550.680	550.740	550.845	550.942	551.033	551.122	551.205
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

**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	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	551.280	551.355	551.423	551.490	551.543	551.595	551.640	551.685	551.722	551.745
5.0	553.770	553.972	554.168	554.340	554.505	554.648	554.783	554.895	555.000	555.082
7.5	556.440	556.643	556.822	557.025	557.183	557.355	557.505	557.640	557.760	557.857
10.0	559.403	559.380	559.320	559.305	559.822	560.003	560.220	560.408	560.572	560.707
12.5	563.235	563.212	563.010	562.763	562.485	562.178	562.065	562.418	562.455	562.553
15.0	566.265	566.077	565.852	565.582	565.275	564.915	564.518	564.045	563.835	564.015
17.5	568.388	568.462	568.665	568.125	567.518	566.820	566.100	565.342	564.563	563.827
20.0	569.707	569.438	569.242	568.800	568.433	567.780	566.955	566.100	565.320	564.278
22.5	570.217	569.918	569.580	569.205	568.785	568.245	567.465	566.325	565.155	563.970
25.0	570.060	569.895	569.580	568.913	568.215	567.495	566.753	565.875	564.615	563.595
27.5	569.220	568.837	568.425	568.050	567.525	566.678	565.635	564.465	563.303	561.630

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

30.0	568.080	567.817	567.210	566.340	565.523	564.705	563.475	562.207	560.798	559.380
32.5	565.875	565.477	565.155	564.112	563.145	562.237	561.405	559.612	557.872	555.975
35.0	563.085	562.643	562.178	561.788	560.310	558.862	557.482	556.102	554.160	552.105
37.5	559.620	559.455	558.585	557.602	556.538	555.247	553.695	552.023	550.072	547.628
40.0	555.555	555.090	554.602	553.612	552.150	550.523	548.730	546.750	544.793	542.572
42.5	551.250	550.283	549.367	548.610	546.840	545.040	543.240	541.425	539.205	536.835
45.0	545.183	544.822	543.660	542.393	540.930	539.340	537.255	535.268	532.860	530.212
47.5	539.325	538.485	537.337	536.220	534.870	532.875	530.970	528.585	526.290	523.372
50.0	531.930	531.615	530.895	529.500	527.820	525.885	523.763	521.303	518.610	515.880
52.5	524.602	524.092	523.523	522.082	520.290	518.400	516.045	513.398	510.735	507.885
55.0	516.465	515.895	514.875	513.622	512.280	509.955	507.608	505.140	502.395	499.313
57.5	507.923	506.820	505.658	504.442	502.620	500.670	498.397	495.855	492.923	490.245
60.0	497.858	496.995	495.877	494.370	492.630	490.567	488.115	485.408	482.678	479.827
62.5	487.507	486.563	485.250	483.840	482.228	480.442	478.140	474.983	471.705	468.810
65.0	476.842	475.755	474.480	472.942	471.555	470.303	467.678	464.265	460.733	457.598
67.5	465.728	464.587	463.365	461.798	460.245	458.858	456.675	453.442	449.798	446.565
70.0	454.283	453.113	451.890	450.840	449.700	448.155	446.017	443.010	439.335	436.020
72.5	441.788	440.970	440.010	439.320	438.608	437.767	436.020	432.067	428.400	425.197
75.0	428.993	428.445	427.590	427.425	426.855	425.723	423.202	419.910	416.183	412.785
77.5	416.197	415.695	414.750	414.652	414.060	412.275	409.522	406.665	403.320	400.267
80.0	402.480	401.955	401.377	400.995	400.207	398.498	396.337	393.712	390.413	387.675
82.5	388.455	388.140	387.750	387.240	386.535	385.433	384.105	381.285	377.745	374.670
85.0	375.248	374.663	374.123	373.425	372.772	372.098	371.498	368.175	364.455	361.245
87.5	363.098	362.332	361.882	360.930	360.428	359.887	359.933	355.853	351.952	348.892
90.0	373.710	373.080	372.413	371.647	371.017	370.793	369.660	365.632	361.920	357.720
92.5	363.098	362.332	361.882	360.930	360.428	359.887	359.933	355.853	351.952	348.892
95.0	375.248	374.663	374.123	373.425	372.772	372.098	371.498	368.175	364.455	361.245
97.5	388.455	388.140	387.750	387.240	386.535	385.433	384.105	381.285	377.745	374.670
100.0	402.480	401.955	401.377	400.995	400.207	398.498	396.337	393.712	390.413	387.675
102.5	416.197	415.695	414.750	414.652	414.060	412.275	409.522	406.665	403.320	400.267
105.0	428.993	428.445	427.590	427.425	426.855	425.723	423.202	419.910	416.183	412.785
107.5	441.788	440.970	440.010	439.320	438.608	437.767	436.020	432.067	428.400	425.197
110.0	454.283	453.113	451.890	450.840	449.700	448.155	446.017	443.010	439.335	436.020
112.5	465.728	464.587	463.365	461.798	460.245	458.858	456.675	453.442	449.798	446.565
115.0	476.842	475.755	474.480	472.942	471.555	470.303	467.678	464.265	460.733	457.598
117.5	487.507	486.563	485.250	483.840	482.228	480.442	478.140	474.983	471.705	468.810
120.0	497.858	496.995	495.877	494.370	492.630	490.567	488.115	485.408	482.678	479.827
122.5	507.923	506.820	505.658	504.442	502.620	500.670	498.397	495.855	492.923	490.245
125.0	516.465	515.895	514.875	513.622	512.280	509.955	507.608	505.140	502.395	499.313
127.5	524.602	524.092	523.523	522.082	520.290	518.400	516.045	513.398	510.735	507.885
130.0	531.930	531.615	530.895	529.500	527.820	525.885	523.763	521.303	518.610	515.880
132.5	539.325	538.485	537.337	536.220	534.870	532.875	530.970	528.585	526.290	523.372
135.0	545.183	544.822	543.660	542.393	540.930	539.340	537.255	535.268	532.860	530.212
137.5	551.250	550.283	549.367	548.610	546.840	545.040	543.240	541.425	539.205	536.835
140.0	555.555	555.090	554.602	553.612	552.150	550.523	548.730	546.750	544.793	542.572
142.5	559.620	559.455	558.585	557.602	556.538	555.247	553.695	552.023	550.072	547.628
145.0	563.085	562.643	562.178	561.788	560.310	558.862	557.482	556.102	554.160	552.105
147.5	565.875	565.477	565.155	564.112	563.145	562.237	561.405	559.612	557.872	555.975
150.0	568.080	567.817	567.210	566.340	565.523	564.705	563.475	562.207	560.798	559.380
152.5	569.220	568.837	568.425	568.050	567.525	566.678	565.635	564.465	563.303	561.630
155.0	570.060	569.895	569.580	568.913	568.215	567.495	566.753	565.875	564.615	563.595
157.5	570.217	569.918	569.580	569.205	568.785	568.245	567.465	566.325	565.155	563.970
160.0	569.707	569.438	569.242	568.800	568.433	567.780	566.955	566.100	565.320	564.278
162.5	568.388	568.462	568.665	568.125	567.518	566.820	566.100	565.342	564.563	563.827
165.0	566.265	566.077	565.852	565.582	565.275	564.915	564.518	564.045	563.835	564.015
167.5	563.235	563.212	563.010	562.763	562.485	562.178	562.065	562.418	562.455	562.553

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

170.0	559.403	559.380	559.320	559.305	559.822	560.003	560.220	560.408	560.572	560.707
172.5	556.440	556.643	556.822	557.025	557.183	557.355	557.505	557.640	557.760	557.857
175.0	553.770	553.972	554.168	554.340	554.505	554.648	554.783	554.895	555.000	555.082
177.5	551.280	551.355	551.423	551.490	551.543	551.595	551.640	551.685	551.722	551.745
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

Vert. Angles	Horizontal Angles									
	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	551.775	552.045	551.813	551.857	551.903	551.940	551.970	551.940	551.903	551.857
5.0	555.158	555.210	555.247	555.270	555.278	555.352	555.420	555.352	555.435	555.285
7.5	557.933	557.992	558.030	558.053	558.053	558.067	558.158	558.067	558.067	558.067
10.0	560.820	560.910	560.970	561.008	561.015	561.158	561.097	561.008	561.030	561.023
12.5	562.635	562.688	562.725	562.725	562.710	562.665	562.725	562.680	562.725	562.747
15.0	564.060	564.082	564.082	564.060	564.015	563.940	563.970	563.962	564.030	564.075
17.5	563.970	563.925	563.857	563.775	563.685	563.572	563.543	563.595	563.700	563.798
20.0	563.430	563.543	563.460	563.355	563.242	563.100	563.018	563.122	563.258	563.378
22.5	562.755	562.043	561.915	561.720	561.525	561.330	561.150	561.345	561.548	561.742
25.0	561.855	560.393	560.033	559.770	559.515	559.253	559.492	559.275	559.538	559.793
27.5	559.822	558.112	556.890	556.643	556.342	556.050	555.870	556.072	556.365	556.665
30.0	557.768	555.570	553.658	553.215	552.862	552.533	552.390	552.555	552.885	553.230
32.5	554.018	551.775	549.555	548.423	548.003	547.620	547.477	547.643	548.025	548.438
35.0	550.125	547.822	545.258	543.300	542.895	542.460	542.362	542.482	542.918	543.315
37.5	545.115	542.670	539.857	537.300	536.625	536.107	535.995	536.122	536.648	537.390
40.0	539.835	537.300	534.330	531.450	530.130	529.508	529.418	529.523	530.153	531.533
42.5	533.850	530.827	527.775	524.617	522.675	522.008	521.962	522.030	522.690	524.700
45.0	527.385	524.100	521.115	517.710	515.092	514.395	514.433	514.410	515.115	517.793
47.5	520.230	516.727	513.322	509.767	506.348	505.680	505.748	505.702	506.415	509.850
50.0	512.550	509.100	505.342	501.765	498.030	496.830	496.935	496.845	498.113	501.848
52.5	504.570	500.887	496.822	493.050	489.113	487.358	487.507	487.380	489.188	493.132
55.0	496.058	492.233	488.190	484.223	480.142	477.780	478.005	477.795	480.217	484.298
57.5	486.998	483.262	478.935	474.592	470.340	467.325	467.678	467.348	470.415	474.668
60.0	476.723	473.272	469.095	464.827	460.575	456.840	457.252	456.840	460.650	464.902
62.5	465.548	462.180	458.385	454.230	449.805	445.567	445.920	445.567	449.873	454.290
65.0	453.998	450.293	446.670	443.175	438.983	434.235	434.520	434.228	439.043	443.235
67.5	442.935	439.080	434.933	431.257	427.605	422.962	422.918	423.007	427.658	431.317
70.0	432.233	427.890	423.293	419.145	415.710	411.817	411.255	411.863	415.762	419.197
72.5	421.132	417.098	412.350	407.070	402.863	399.465	398.730	399.502	402.908	407.115
75.0	409.230	405.428	400.395	395.108	390.120	386.752	386.145	386.783	390.165	395.145
77.5	396.683	392.678	388.200	383.370	377.550	372.990	372.413	373.012	377.580	383.408
80.0	383.798	380.063	375.450	370.507	365.145	359.498	358.650	359.520	365.175	370.530
82.5	371.190	367.598	362.827	358.425	352.777	347.235	344.783	347.257	352.800	358.447
85.0	358.103	354.217	349.785	345.142	339.577	334.868	330.923	334.875	339.592	345.158
87.5	345.765	341.647	337.260	332.775	327.757	322.957	318.255	322.965	327.765	332.783
90.0	353.655	349.500	345.120	339.098	334.170	333.502	333.270	333.533	334.230	339.285
92.5	345.765	341.647	337.260	332.775	327.757	322.957	318.255	322.965	327.765	332.783
95.0	358.103	354.217	349.785	345.142	339.577	334.868	330.923	334.875	339.592	345.158
97.5	371.190	367.598	362.827	358.425	352.777	347.235	344.783	347.257	352.800	358.447
100.0	383.798	380.063	375.450	370.507	365.145	359.498	358.650	359.520	365.175	370.530
102.5	396.683	392.678	388.200	383.370	377.550	372.990	372.413	373.012	377.580	383.408
105.0	409.230	405.428	400.395	395.108	390.120	386.752	386.145	386.783	390.165	395.145
107.5	421.132	417.098	412.350	407.070	402.863	399.465	398.730	399.502	402.908	407.115
110.0	432.233	427.890	423.293	419.145	415.710	411.817	411.255	411.863	415.762	419.197
112.5	442.935	439.080	434.933	431.257	427.605	422.962	422.918	423.007	427.658	431.317
115.0	453.998	450.293	446.670	443.175	438.983	434.235	434.520	434.228	439.043	443.235

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

117.5	465.548	462.180	458.385	454.230	449.805	445.567	445.920	445.567	449.873	454.290
120.0	476.723	473.272	469.095	464.827	460.575	456.840	457.252	456.840	460.650	464.902
122.5	486.998	483.262	478.935	474.592	470.340	467.325	467.678	467.348	470.415	474.668
125.0	496.058	492.233	488.190	484.223	480.142	477.780	478.005	477.795	480.217	484.298
127.5	504.570	500.887	496.822	493.050	489.113	487.358	487.507	487.380	489.188	493.132
130.0	512.550	509.100	505.342	501.765	498.030	496.830	496.935	496.845	498.113	501.848
132.5	520.230	516.727	513.322	509.767	506.348	505.680	505.748	505.702	506.415	509.850
135.0	527.385	524.100	521.115	517.710	515.092	514.395	514.433	514.410	515.115	517.793
137.5	533.850	530.827	527.775	524.617	522.675	522.008	521.962	522.030	522.690	524.700
140.0	539.835	537.300	534.330	531.450	530.130	529.508	529.418	529.523	530.153	531.533
142.5	545.115	542.670	539.857	537.300	536.625	536.107	535.995	536.122	536.648	537.390
145.0	550.125	547.822	545.258	543.300	542.895	542.460	542.362	542.482	542.918	543.315
147.5	554.018	551.775	549.555	548.423	548.003	547.620	547.477	547.643	548.025	548.438
150.0	557.768	555.570	553.658	553.215	552.862	552.533	552.390	552.555	552.885	553.230
152.5	559.822	558.112	556.890	556.643	556.342	556.050	555.870	556.072	556.365	556.665
155.0	561.855	560.393	560.033	559.770	559.515	559.253	559.492	559.275	559.538	559.793
157.5	562.755	562.043	561.915	561.720	561.525	561.330	561.150	561.345	561.548	561.742
160.0	563.430	563.543	563.460	563.355	563.242	563.100	563.018	563.122	563.258	563.378
162.5	563.970	563.925	563.857	563.775	563.685	563.572	563.543	563.595	563.700	563.798
165.0	564.060	564.082	564.082	564.060	564.015	563.940	563.970	563.962	564.030	564.075
167.5	562.635	562.688	562.725	562.725	562.710	562.665	562.725	562.680	562.725	562.747
170.0	560.820	560.910	560.970	561.008	561.015	561.158	561.097	561.008	561.030	561.023
172.5	557.933	557.992	558.030	558.053	558.053	558.067	558.158	558.067	558.067	558.067
175.0	555.158	555.210	555.247	555.270	555.278	555.352	555.420	555.352	555.435	555.285
177.5	551.775	552.045	551.813	551.857	551.903	551.940	551.970	551.940	551.903	551.857
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

**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	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	551.910	551.813	551.790	551.768	551.737	551.700	551.663	551.617	551.565	551.505
5.0	555.263	555.225	555.173	555.105	555.015	554.918	554.798	554.670	554.520	554.355
7.5	558.053	558.015	557.955	557.872	557.775	557.663	557.528	557.370	557.197	557.040
10.0	560.985	560.925	560.842	560.722	560.587	560.423	560.235	560.303	559.837	559.327
12.5	562.740	562.710	562.650	562.575	562.470	562.342	562.080	562.268	562.582	562.860
15.0	564.097	564.097	564.075	564.030	563.850	564.143	564.615	565.013	565.365	565.680
17.5	563.872	563.940	563.992	563.865	564.660	565.440	566.190	566.918	567.607	568.215
20.0	563.475	563.558	563.445	564.367	565.410	566.190	567.053	567.870	568.523	568.890
22.5	561.930	562.058	562.852	564.067	565.253	566.415	567.555	568.327	568.867	569.288
25.0	560.048	560.490	561.952	563.692	564.712	565.965	566.842	567.585	568.298	568.995
27.5	556.905	558.210	559.920	561.727	563.400	564.563	565.725	566.760	567.607	568.133
30.0	553.755	555.668	557.865	559.470	560.903	562.298	563.565	564.795	565.605	566.423
32.5	549.960	551.865	554.115	556.065	557.970	559.702	561.503	562.320	563.460	564.202
35.0	545.355	547.920	550.222	552.202	554.250	556.192	557.572	558.952	560.400	561.878
37.5	539.955	542.768	545.212	547.725	550.163	552.112	553.785	555.345	556.628	557.685
40.0	534.428	537.390	539.940	542.670	544.883	546.840	548.820	550.612	552.240	553.702
42.5	527.865	530.918	533.947	536.925	539.295	541.515	543.330	545.130	546.923	548.565
45.0	521.205	524.190	527.482	530.303	532.950	535.357	537.345	539.430	541.013	542.467
47.5	513.405	516.817	520.320	523.462	526.380	528.675	531.060	532.957	534.832	536.295
50.0	505.425	509.197	512.640	515.970	518.692	521.393	523.845	525.967	527.903	529.575
52.5	496.905	500.978	504.652	507.967	510.817	513.487	516.128	518.482	520.372	522.165
55.0	488.295	492.322	496.140	499.395	502.478	505.223	507.683	510.038	512.355	513.690
57.5	479.017	483.345	487.080	490.320	492.998	495.930	498.473	500.745	502.695	504.510
60.0	469.178	473.348	476.798	479.902	482.752	485.483	488.190	490.642	492.697	494.438
62.5	458.460	462.255	465.623	468.885	471.780	475.058	478.207	480.510	482.295	483.908

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

65.0	446.738	450.360	454.065	457.665	460.808	464.340	467.738	470.370	471.615	473.010
67.5	435.000	439.140	442.995	446.625	449.865	453.502	456.735	458.918	460.305	461.858
70.0	423.353	427.950	432.293	436.080	439.395	443.070	446.077	448.215	449.760	450.892
72.5	412.402	417.150	421.185	425.250	428.452	432.120	436.080	437.820	439.043	439.365
75.0	400.440	405.473	409.275	412.830	416.235	419.955	423.255	425.767	426.900	427.470
77.5	388.238	392.715	396.720	400.313	403.358	406.702	409.560	412.313	414.098	414.683
80.0	375.480	380.092	383.827	387.705	390.442	393.743	396.375	398.527	400.238	401.025
82.5	362.858	367.620	371.212	374.700	377.767	381.315	384.127	385.462	386.558	387.262
85.0	349.800	354.240	358.118	361.267	364.470	368.197	371.512	372.113	372.788	373.440
87.5	337.275	341.655	345.772	348.900	351.960	355.860	359.940	359.902	360.435	360.938
90.0	345.315	349.680	353.858	357.923	361.905	365.835	369.855	370.980	371.190	371.827
92.5	337.275	341.655	345.772	348.900	351.960	355.860	359.940	359.902	360.435	360.938
95.0	349.800	354.240	358.118	361.267	364.470	368.197	371.512	372.113	372.788	373.440
97.5	362.858	367.620	371.212	374.700	377.767	381.315	384.127	385.462	386.558	387.262
100.0	375.480	380.092	383.827	387.705	390.442	393.743	396.375	398.527	400.238	401.025
102.5	388.238	392.715	396.720	400.313	403.358	406.702	409.560	412.313	414.098	414.683
105.0	400.440	405.473	409.275	412.830	416.235	419.955	423.255	425.767	426.900	427.470
107.5	412.402	417.150	421.185	425.250	428.452	432.120	436.080	437.820	439.043	439.365
110.0	423.353	427.950	432.293	436.080	439.395	443.070	446.077	448.215	449.760	450.892
112.5	435.000	439.140	442.995	446.625	449.865	453.502	456.735	458.918	460.305	461.858
115.0	446.738	450.360	454.065	457.665	460.808	464.340	467.738	470.370	471.615	473.010
117.5	458.460	462.255	465.623	468.885	471.780	475.058	478.207	480.510	482.295	483.908
120.0	469.178	473.348	476.798	479.902	482.752	485.483	488.190	490.642	492.697	494.438
122.5	479.017	483.345	487.080	490.320	492.998	495.930	498.473	500.745	502.695	504.510
125.0	488.295	492.322	496.140	499.395	502.478	505.223	507.683	510.038	512.355	513.690
127.5	496.905	500.978	504.652	507.967	510.817	513.487	516.128	518.482	520.372	522.165
130.0	505.425	509.197	512.640	515.970	518.692	521.393	523.845	525.967	527.903	529.575
132.5	513.405	516.817	520.320	523.462	526.380	528.675	531.060	532.957	534.832	536.295
135.0	521.205	524.190	527.482	530.303	532.950	535.357	537.345	539.430	541.013	542.467
137.5	527.865	530.918	533.947	536.925	539.295	541.515	543.330	545.130	546.923	548.565
140.0	534.428	537.390	539.940	542.670	544.883	546.840	548.820	550.612	552.240	553.702
142.5	539.955	542.768	545.212	547.725	550.163	552.112	553.785	555.345	556.628	557.685
145.0	545.355	547.920	550.222	552.202	554.250	556.192	557.572	558.952	560.400	561.878
147.5	549.960	551.865	554.115	556.065	557.970	559.702	561.503	562.320	563.460	564.202
150.0	553.755	555.668	557.865	559.470	560.903	562.298	563.565	564.795	565.605	566.423
152.5	556.905	558.210	559.920	561.727	563.400	564.563	565.725	566.760	567.607	568.133
155.0	560.048	560.490	561.952	563.692	564.712	565.965	566.842	567.585	568.298	568.995
157.5	561.930	562.058	562.852	564.067	565.253	566.415	567.555	568.327	568.867	569.288
160.0	563.475	563.558	563.445	564.367	565.410	566.190	567.053	567.870	568.523	568.890
162.5	563.872	563.940	563.992	563.865	564.660	565.440	566.190	566.918	567.607	568.215
165.0	564.097	564.097	564.075	564.030	563.850	564.143	564.615	565.013	565.365	565.680
167.5	562.740	562.710	562.650	562.575	562.470	562.342	562.080	562.268	562.582	562.860
170.0	560.985	560.925	560.842	560.722	560.587	560.423	560.235	560.303	559.837	559.327
172.5	558.053	558.015	557.955	557.872	557.775	557.663	557.528	557.370	557.197	557.040
175.0	555.263	555.225	555.173	555.105	555.015	554.918	554.798	554.670	554.520	554.355
177.5	551.910	551.813	551.790	551.768	551.737	551.700	551.663	551.617	551.565	551.505
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

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	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	551.445	551.378	551.303	551.220	551.138	551.048	550.957	550.860	550.763	550.702
5.0	554.183	553.995	553.785	553.567	553.688	553.200	553.013	552.817	552.615	552.398
7.5	556.837	556.957	556.455	556.268	555.862	555.788	555.600	555.405	555.180	554.933
10.0	559.418	559.470	559.500	559.492	559.447	559.380	559.275	559.178	559.065	558.930

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

12.5	563.100	563.303	563.332	563.310	563.258	563.160	563.025	562.830	562.395	561.967
15.0	565.950	566.175	566.355	566.347	566.197	566.048	565.763	565.320	564.847	564.345
17.5	568.575	568.545	568.470	568.327	568.148	567.930	567.675	567.420	567.135	566.640
20.0	569.325	569.520	569.790	570.082	569.985	569.820	569.258	568.717	568.275	567.577
22.5	569.663	570.000	570.300	570.360	570.293	570.255	570.143	569.655	569.003	568.305
25.0	569.663	570.045	570.143	570.180	570.173	570.128	570.038	569.768	569.310	568.260
27.5	568.740	568.920	569.303	569.648	569.857	569.558	569.107	568.492	567.840	567.158
30.0	567.293	567.900	568.155	568.117	568.043	567.788	567.525	567.008	566.197	565.245
32.5	565.245	565.553	565.950	566.122	565.905	565.567	565.020	564.450	564.038	562.710
35.0	562.260	562.717	563.160	563.183	563.220	562.732	562.357	561.405	560.535	559.530
37.5	558.668	559.538	559.688	559.763	559.643	559.388	558.742	558.008	556.740	555.480
40.0	554.678	555.165	555.630	555.908	555.780	555.285	554.595	553.732	552.742	551.205
42.5	549.442	550.357	551.317	551.197	550.980	550.582	550.313	548.940	547.342	545.692
45.0	543.735	544.898	545.242	545.685	545.820	545.197	544.155	543.000	541.732	539.985
47.5	537.413	538.553	539.400	539.190	539.040	538.710	538.237	536.820	535.470	533.722
50.0	530.970	531.683	531.997	532.222	532.133	531.600	530.977	530.130	528.773	526.950
52.5	523.492	524.153	524.663	524.783	524.625	524.212	523.755	522.510	521.122	519.660
55.0	514.935	515.955	516.525	516.795	516.923	516.435	515.438	514.350	513.097	511.298
57.5	505.725	506.880	507.983	508.050	508.050	507.757	506.940	505.755	504.067	502.238
60.0	495.938	497.063	497.910	498.517	498.600	498.120	497.272	496.020	494.370	492.390
62.5	485.310	486.623	487.560	488.310	488.205	487.770	487.012	485.430	483.772	481.965
65.0	474.540	475.808	476.895	477.442	477.308	476.887	476.152	474.585	472.973	471.045
67.5	463.418	464.640	465.780	466.155	465.788	465.510	464.618	463.200	461.685	459.728
70.0	451.935	453.165	454.335	454.575	454.170	454.163	452.955	451.567	450.195	448.928
72.5	440.055	441.022	441.825	442.012	441.900	441.668	440.745	439.688	438.585	437.700
75.0	427.627	428.483	429.030	429.165	429.120	428.858	428.243	427.327	426.465	426.000
77.5	414.780	415.733	416.228	416.408	416.460	416.115	415.627	414.840	413.933	413.483
80.0	401.400	401.985	402.488	402.998	403.342	402.735	402.022	401.220	400.590	399.930
82.5	387.772	388.163	388.478	389.040	389.610	388.762	388.058	387.563	387.090	386.385
85.0	374.137	374.678	375.262	376.230	377.100	376.020	375.353	374.295	374.040	372.863
87.5	361.890	362.340	363.113	364.230	365.445	364.110	362.842	362.160	361.470	360.652
90.0	372.585	373.260	373.882	373.913	373.410	372.142	370.440	368.918	367.163	365.527
92.5	361.890	362.340	363.113	364.230	365.445	364.110	362.842	362.160	361.470	360.652
95.0	374.137	374.678	375.262	376.230	377.100	376.020	375.353	374.295	374.040	372.863
97.5	387.772	388.163	388.478	389.040	389.610	388.762	388.058	387.563	387.090	386.385
100.0	401.400	401.985	402.488	402.998	403.342	402.735	402.022	401.220	400.590	399.930
102.5	414.780	415.733	416.228	416.408	416.460	416.115	415.627	414.840	413.933	413.483
105.0	427.627	428.483	429.030	429.165	429.120	428.858	428.243	427.327	426.465	426.000
107.5	440.055	441.022	441.825	442.012	441.900	441.668	440.745	439.688	438.585	437.700
110.0	451.935	453.165	454.335	454.575	454.170	454.163	452.955	451.567	450.195	448.928
112.5	463.418	464.640	465.780	466.155	465.788	465.510	464.618	463.200	461.685	459.728
115.0	474.540	475.808	476.895	477.442	477.308	476.887	476.152	474.585	472.973	471.045
117.5	485.310	486.623	487.560	488.310	488.205	487.770	487.012	485.430	483.772	481.965
120.0	495.938	497.063	497.910	498.517	498.600	498.120	497.272	496.020	494.370	492.390
122.5	505.725	506.880	507.983	508.050	508.050	507.757	506.940	505.755	504.067	502.238
125.0	514.935	515.955	516.525	516.795	516.923	516.435	515.438	514.350	513.097	511.298
127.5	523.492	524.153	524.663	524.783	524.625	524.212	523.755	522.510	521.122	519.660
130.0	530.970	531.683	531.997	532.222	532.133	531.600	530.977	530.130	528.773	526.950
132.5	537.413	538.553	539.400	539.190	539.040	538.710	538.237	536.820	535.470	533.722
135.0	543.735	544.898	545.242	545.685	545.820	545.197	544.155	543.000	541.732	539.985
137.5	549.442	550.357	551.317	551.197	550.980	550.582	550.313	548.940	547.342	545.692
140.0	554.678	555.165	555.630	555.908	555.780	555.285	554.595	553.732	552.742	551.205
142.5	558.668	559.538	559.688	559.755	559.643	559.388	558.742	558.008	556.740	555.480
145.0	562.260	562.717	563.160	563.183	563.220	562.732	562.357	561.405	560.535	559.530
147.5	565.245	565.553	565.950	566.122	565.905	565.567	565.020	564.450	564.038	562.710
150.0	567.293	567.900	568.155	568.117	568.043	567.788	567.525	567.008	566.197	565.245

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

152.5	568.740	568.920	569.303	569.648	569.857	569.558	569.107	568.492	567.840	567.158
155.0	569.663	570.045	570.143	570.180	570.173	570.128	570.038	569.768	569.310	568.260
157.5	569.663	570.000	570.300	570.360	570.293	570.255	570.143	569.655	569.003	568.305
160.0	569.325	569.520	569.790	570.082	569.985	569.820	569.258	568.717	568.275	567.577
162.5	568.575	568.545	568.470	568.327	568.148	567.930	567.675	567.420	567.135	566.640
165.0	565.950	566.175	566.355	566.347	566.197	566.048	565.763	565.320	564.847	564.345
167.5	563.100	563.303	563.332	563.310	563.258	563.160	563.025	562.830	562.395	561.967
170.0	559.418	559.470	559.500	559.492	559.447	559.380	559.275	559.178	559.065	558.930
172.5	556.837	556.957	556.455	556.268	555.862	555.788	555.600	555.405	555.180	554.933
175.0	554.183	553.995	553.785	553.567	553.688	553.200	553.013	552.817	552.615	552.398
177.5	551.445	551.378	551.303	551.220	551.138	551.048	550.957	550.860	550.763	550.702
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

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	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	550.650	550.680	550.710	550.747	550.778	550.808	550.837	550.875	550.905	550.935
5.0	552.180	551.955	552.030	551.482	551.235	550.987	550.763	550.822	550.883	550.942
7.5	554.655	554.423	554.212	553.980	553.725	553.455	553.155	552.840	552.510	552.653
10.0	558.803	558.383	557.940	557.467	557.055	556.680	556.275	555.915	555.367	554.872
12.5	561.533	561.135	560.722	560.197	559.462	558.697	558.082	557.482	556.860	556.215
15.0	563.805	563.235	562.650	562.095	561.533	560.737	559.793	559.005	558.270	557.505
17.5	566.063	565.050	564.195	563.317	562.462	561.653	560.655	559.433	558.487	557.543
20.0	566.977	566.138	565.133	564.105	563.048	562.013	561.038	559.808	558.518	557.438
22.5	567.585	566.775	565.808	564.375	562.950	561.518	560.168	558.885	557.212	555.862
25.0	567.075	565.965	564.690	563.505	561.945	560.362	558.893	557.325	555.720	554.048
27.5	566.197	564.855	563.415	561.952	560.707	558.577	556.643	554.790	553.058	551.033
30.0	564.270	563.063	561.270	559.485	557.737	555.945	553.822	551.790	549.795	547.867
32.5	561.480	560.227	558.945	556.747	554.648	552.577	550.388	547.890	545.572	543.308
35.0	558.225	556.665	555.090	553.192	550.747	548.332	545.977	543.375	540.795	538.447
37.5	554.220	552.690	550.778	548.722	546.435	543.690	540.975	538.357	535.425	532.725
40.0	549.330	547.650	545.872	543.683	541.253	538.462	535.388	532.553	529.403	526.433
42.5	543.945	542.340	540.263	538.117	535.395	532.575	529.350	526.192	523.028	519.938
45.0	538.028	536.063	533.865	531.712	529.342	526.125	522.967	519.472	516.278	512.678
47.5	531.675	529.553	527.505	524.992	522.278	519.060	515.745	512.077	508.627	504.900
50.0	524.918	522.585	519.960	517.470	514.628	511.680	508.178	504.413	500.580	496.710
52.5	517.365	514.928	512.273	509.670	506.850	503.580	500.010	496.163	492.188	488.257
55.0	509.348	506.970	504.368	501.322	498.435	495.173	491.692	487.890	483.630	479.460
57.5	500.280	498.007	495.082	492.330	489.457	486.315	482.543	478.635	474.442	470.212
60.0	490.418	487.890	484.980	481.965	479.137	475.950	472.800	469.118	464.858	460.462
62.5	480.105	477.848	475.365	471.368	468.120	465.098	461.730	458.010	454.163	450.030
65.0	469.290	467.887	464.257	460.530	457.223	453.757	450.000	446.295	442.762	439.402
67.5	457.950	456.015	453.270	449.858	446.250	442.785	439.155	435.225	430.942	427.575
70.0	447.510	445.590	443.168	439.590	435.938	432.540	428.483	424.072	419.527	415.740
72.5	436.590	435.533	432.967	428.955	425.303	421.897	417.743	413.707	408.892	403.748
75.0	424.973	423.570	420.488	417.067	413.303	409.980	406.305	402.495	397.245	392.205
77.5	412.493	410.160	407.250	404.512	400.830	397.845	394.245	390.082	385.553	380.767
80.0	398.962	396.885	394.598	391.762	388.680	385.530	381.585	377.940	373.147	368.408
82.5	385.590	384.300	383.123	379.755	376.155	373.058	369.510	365.880	361.087	356.842
85.0	372.217	371.377	370.695	367.132	363.345	360.188	356.985	353.070	348.615	344.048
87.5	359.865	359.535	359.243	355.335	351.563	348.375	345.217	341.077	336.660	332.220
90.0	364.320	363.105	358.620	353.962	349.418	345.375	340.980	335.993	330.765	325.387
92.5	359.865	359.535	359.243	355.335	351.563	348.375	345.217	341.077	336.660	332.220
95.0	372.217	371.377	370.695	367.132	363.345	360.188	356.985	353.070	348.615	344.048
97.5	385.590	384.300	383.123	379.755	376.155	373.058	369.510	365.880	361.087	356.842

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

100.0	398.962	396.885	394.598	391.762	388.680	385.530	381.585	377.940	373.147	368.408
102.5	412.493	410.160	407.250	404.512	400.830	397.845	394.245	390.082	385.553	380.767
105.0	424.973	423.570	420.488	417.067	413.303	409.980	406.305	402.495	397.245	392.205
107.5	436.590	435.533	432.967	428.955	425.303	421.897	417.743	413.707	408.892	403.748
110.0	447.510	445.590	443.168	439.590	435.938	432.540	428.483	424.072	419.527	415.740
112.5	457.950	456.015	453.270	449.858	446.250	442.785	439.155	435.225	430.942	427.575
115.0	469.290	467.887	464.257	460.530	457.223	453.757	450.000	446.295	442.762	439.402
117.5	480.105	477.848	475.365	471.368	468.120	465.098	461.730	458.010	454.163	450.030
120.0	490.418	487.890	484.980	481.965	479.137	475.950	472.800	469.118	464.858	460.462
122.5	500.280	498.007	495.082	492.330	489.457	486.315	482.543	478.635	474.442	470.212
125.0	509.348	506.970	504.368	501.322	498.435	495.173	491.692	487.890	483.630	479.460
127.5	517.365	514.928	512.273	509.670	506.850	503.580	500.010	496.163	492.188	488.257
130.0	524.918	522.585	519.960	517.470	514.628	511.680	508.178	504.413	500.580	496.710
132.5	531.675	529.553	527.505	524.992	522.278	519.060	515.745	512.077	508.627	504.900
135.0	538.028	536.063	533.865	531.712	529.342	526.125	522.967	519.472	516.278	512.678
137.5	543.945	542.340	540.263	538.117	535.395	532.575	529.350	526.192	523.028	519.938
140.0	549.330	547.650	545.872	543.683	541.253	538.462	535.388	532.553	529.403	526.433
142.5	554.220	552.690	550.778	548.722	546.435	543.690	540.975	538.357	535.425	532.725
145.0	558.225	556.665	555.090	553.192	550.747	548.332	545.977	543.375	540.795	538.447
147.5	561.480	560.227	558.945	556.747	554.648	552.577	550.388	547.890	545.572	543.308
150.0	564.270	563.063	561.270	559.485	557.737	555.945	553.822	551.790	549.795	547.867
152.5	566.197	564.855	563.415	561.952	560.707	558.577	556.643	554.790	553.058	551.033
155.0	567.075	565.965	564.690	563.505	561.945	560.362	558.893	557.325	555.720	554.048
157.5	567.585	566.775	565.808	564.375	562.950	561.518	560.168	558.885	557.212	555.862
160.0	566.977	566.138	565.133	564.105	563.048	562.013	561.038	559.808	558.518	557.438
162.5	566.063	565.050	564.195	563.317	562.462	561.653	560.655	559.433	558.487	557.543
165.0	563.805	563.235	562.650	562.095	561.533	560.737	559.793	559.005	558.270	557.505
167.5	561.533	561.135	560.722	560.197	559.462	558.697	558.082	557.482	556.860	556.215
170.0	558.803	558.383	557.940	557.467	557.055	556.680	556.275	555.915	555.367	554.872
172.5	554.655	554.423	554.212	553.980	553.725	553.455	553.155	552.840	552.510	552.653
175.0	552.180	551.955	552.030	551.482	551.235	550.987	550.763	550.822	550.883	550.942
177.5	550.650	550.680	550.710	550.747	550.778	550.808	550.837	550.875	550.905	550.935
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

Vert. Angles	Horizontal Angles									
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	550.965	550.995	551.025	551.010	550.972	550.942	550.905	550.875	550.845	550.815
5.0	551.003	551.063	551.122	551.070	551.010	550.950	550.890	550.830	550.770	550.898
7.5	552.773	552.885	552.975	552.885	552.780	552.653	552.518	552.750	553.065	553.365
10.0	555.015	555.143	555.270	555.150	555.015	554.872	555.278	555.825	556.185	556.590
12.5	555.878	556.035	556.178	556.035	555.878	556.125	556.770	557.393	557.992	558.585
15.0	557.010	556.995	557.130	557.003	556.957	557.423	558.180	558.923	559.680	560.625
17.5	556.590	556.403	556.597	556.410	556.500	557.452	558.398	559.380	560.543	561.548
20.0	556.342	555.915	556.170	555.915	556.260	557.347	558.428	559.695	560.933	561.908
22.5	554.558	553.680	553.905	553.680	554.475	555.780	557.100	558.780	560.070	561.405
25.0	552.592	551.370	551.625	551.378	552.510	553.965	555.607	557.220	558.705	560.250
27.5	549.345	547.710	547.957	547.717	549.255	550.942	552.952	554.685	556.530	558.472
30.0	545.820	543.990	544.080	543.982	545.730	547.590	549.690	551.617	553.710	555.840
32.5	541.110	539.070	538.935	538.980	541.028	543.195	545.467	547.785	550.275	552.472
35.0	536.070	533.857	533.528	533.775	535.980	538.350	540.697	543.270	545.880	548.220
37.5	530.153	527.737	527.205	527.663	530.070	532.620	535.298	538.253	540.870	543.585
40.0	523.740	521.183	520.462	521.107	523.665	526.335	529.298	532.447	535.283	538.350
42.5	516.840	514.080	513.128	514.005	516.765	519.840	522.923	526.087	529.245	532.477
45.0	509.632	506.715	505.553	506.632	509.558	512.587	516.180	519.375	522.862	526.028

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

47.5	501.570	498.592	497.220	498.517	501.502	504.803	508.530	511.973	515.715	518.962
50.0	493.087	490.012	488.377	489.945	493.020	496.620	500.483	504.308	508.072	511.582
52.5	484.478	481.170	479.243	481.103	484.410	488.160	492.098	496.065	499.913	503.490
55.0	475.238	471.945	469.777	471.877	475.178	479.370	483.540	487.793	491.603	495.120
57.5	465.810	462.277	459.908	462.210	465.832	470.130	474.360	478.545	482.452	486.233
60.0	455.798	452.205	449.587	452.145	455.767	460.380	464.775	469.035	472.717	475.875
62.5	445.305	441.615	438.712	441.555	445.238	449.955	454.095	457.935	461.655	465.007
65.0	434.610	430.770	427.553	430.717	434.543	439.342	442.702	446.228	449.933	453.683
67.5	423.577	419.880	416.483	419.835	423.517	427.515	430.882	435.158	439.087	442.725
70.0	412.065	408.803	405.195	408.765	412.012	415.688	419.475	424.012	428.423	432.480
72.5	399.405	396.840	393.322	396.803	399.360	403.702	408.900	413.647	417.690	421.845
75.0	387.105	384.382	381.262	384.353	387.060	392.160	397.230	402.442	406.260	409.928
77.5	374.820	370.913	368.280	370.882	374.783	380.730	385.507	390.038	394.252	397.800
80.0	362.955	357.810	355.215	357.788	362.925	368.377	373.110	377.910	381.592	385.493
82.5	351.053	345.877	342.173	345.855	351.030	356.820	361.058	365.858	369.488	373.035
85.0	338.438	333.975	329.175	333.960	338.423	344.025	348.600	353.055	356.962	360.173
87.5	327.202	322.522	317.370	322.515	327.195	332.212	336.652	341.070	345.202	348.360
90.0	320.190	314.145	312.293	313.995	319.995	325.215	330.563	335.790	340.770	345.173
92.5	327.202	322.522	317.370	322.515	327.195	332.212	336.652	341.070	345.202	348.360
95.0	338.438	333.975	329.175	333.960	338.423	344.025	348.600	353.055	356.962	360.173
97.5	351.053	345.877	342.173	345.855	351.030	356.820	361.058	365.858	369.488	373.035
100.0	362.955	357.810	355.215	357.788	362.925	368.377	373.110	377.910	381.592	385.493
102.5	374.820	370.913	368.280	370.882	374.783	380.730	385.507	390.038	394.252	397.800
105.0	387.105	384.382	381.262	384.353	387.060	392.160	397.230	402.442	406.260	409.928
107.5	399.405	396.840	393.322	396.803	399.360	403.702	408.900	413.647	417.690	421.845
110.0	412.065	408.803	405.195	408.765	412.012	415.688	419.475	424.012	428.423	432.480
112.5	423.577	419.880	416.483	419.835	423.517	427.515	430.882	435.158	439.087	442.725
115.0	434.610	430.770	427.553	430.717	434.543	439.342	442.702	446.228	449.933	453.683
117.5	445.305	441.615	438.712	441.555	445.238	449.955	454.095	457.935	461.655	465.007
120.0	455.798	452.205	449.587	452.145	455.767	460.380	464.775	469.035	472.717	475.875
122.5	465.810	462.277	459.908	462.210	465.832	470.130	474.360	478.545	482.452	486.233
125.0	475.238	471.945	469.777	471.877	475.178	479.370	483.540	487.793	491.603	495.120
127.5	484.478	481.170	479.243	481.103	484.410	488.160	492.098	496.065	499.913	503.490
130.0	493.087	490.012	488.377	489.945	493.020	496.620	500.483	504.308	508.072	511.582
132.5	501.570	498.592	497.220	498.517	501.502	504.803	508.530	511.973	515.715	518.962
135.0	509.632	506.715	505.553	506.632	509.558	512.587	516.180	519.375	522.862	526.028
137.5	516.840	514.080	513.128	514.005	516.765	519.840	522.923	526.087	529.245	532.477
140.0	523.740	521.183	520.462	521.107	523.665	526.335	529.298	532.447	535.283	538.350
142.5	530.153	527.737	527.205	527.663	530.070	532.620	535.298	538.253	540.870	543.585
145.0	536.070	533.857	533.528	533.775	535.980	538.350	540.697	543.270	545.880	548.220
147.5	541.110	539.070	538.935	538.980	541.028	543.195	545.467	547.785	550.275	552.472
150.0	545.820	543.990	544.080	543.982	545.730	547.590	549.690	551.617	553.710	555.840
152.5	549.345	547.710	547.957	547.717	549.255	550.942	552.952	554.685	556.530	558.472
155.0	552.592	551.370	551.625	551.378	552.510	553.965	555.607	557.220	558.705	560.250
157.5	554.558	553.680	553.905	553.680	554.475	555.780	557.100	558.780	560.070	561.405
160.0	556.342	555.915	556.170	555.915	556.260	557.347	558.428	559.695	560.933	561.908
162.5	556.590	556.403	556.597	556.410	556.500	557.452	558.398	559.380	560.543	561.548
165.0	557.010	556.995	557.130	557.003	556.957	557.423	558.180	558.923	559.680	560.625
167.5	555.878	556.035	556.178	556.035	555.878	556.125	556.770	557.393	557.992	558.585
170.0	555.015	555.143	555.270	555.150	555.015	554.872	555.278	555.825	556.185	556.590
172.5	552.773	552.885	552.975	552.885	552.780	552.653	552.518	552.750	553.065	553.365
175.0	551.003	551.063	551.122	551.070	551.010	550.950	550.890	550.830	550.770	550.898
177.5	550.965	550.995	551.025	551.010	550.972	550.942	550.905	550.875	550.845	550.815
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
0.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	550.785	550.747	550.717	550.688	550.650	550.620	550.763	550.770	550.867	550.965
5.0	551.145	551.393	551.940	551.865	552.090	552.308	552.525	552.727	552.923	553.110
7.5	553.635	553.890	554.122	554.332	554.543	554.820	555.067	555.293	555.487	555.675
10.0	556.965	557.355	557.827	558.270	558.683	558.825	558.967	559.072	559.237	559.260
12.5	559.350	560.085	560.617	561.030	561.428	561.847	562.283	562.717	562.913	563.048
15.0	561.428	561.990	562.523	563.122	563.692	564.232	564.735	565.207	565.650	565.942
17.5	562.365	563.205	564.082	564.938	565.755	566.528	567.030	567.315	567.570	567.817
20.0	562.935	563.992	565.020	566.025	566.872	567.472	568.087	568.612	569.153	569.715
22.5	562.837	564.270	565.688	566.670	567.480	568.200	568.890	569.543	570.053	570.173
25.0	561.832	563.400	564.585	565.785	566.970	568.148	569.220	569.685	569.955	570.045
27.5	560.685	561.847	563.362	564.750	566.092	567.067	567.750	568.403	569.018	569.475
30.0	557.625	559.372	561.165	562.950	564.180	565.163	566.115	566.925	567.442	567.712
32.5	554.543	556.643	558.825	560.138	561.390	562.628	563.933	564.367	564.938	565.485
35.0	550.635	553.080	554.992	556.575	558.135	559.447	560.452	561.322	562.275	562.658
37.5	546.322	548.617	550.688	552.600	554.138	555.390	556.650	557.903	558.668	559.320
40.0	541.148	543.585	545.775	547.567	549.240	551.115	552.660	553.658	554.520	555.217
42.5	535.298	538.020	540.173	542.250	543.855	545.610	547.260	548.872	550.245	550.515
45.0	529.028	531.622	533.775	536.122	537.945	539.903	541.650	542.933	544.087	545.130
47.5	522.188	524.903	527.415	529.470	531.592	533.640	535.395	536.745	538.148	538.650
50.0	514.538	517.380	519.878	522.503	524.835	526.875	528.697	530.063	530.918	531.548
52.5	506.767	509.587	512.190	514.845	517.290	519.577	521.048	522.450	523.688	524.153
55.0	498.353	501.240	504.277	506.887	509.280	511.223	513.030	514.290	515.385	516.383
57.5	489.375	492.262	495.007	497.933	500.205	502.170	504.000	505.695	506.880	507.705
60.0	479.063	481.988	484.905	487.815	490.335	492.322	494.310	495.960	497.220	498.075
62.5	468.060	471.293	475.283	477.780	480.038	481.897	483.697	485.377	486.960	487.725
65.0	457.155	460.462	464.190	467.820	469.230	470.985	472.913	474.533	476.108	476.850
67.5	446.183	449.790	453.202	455.955	457.890	459.675	461.632	463.155	464.572	465.473
70.0	435.877	439.530	443.108	445.538	447.450	448.882	450.142	451.515	452.910	454.118
72.5	425.250	428.902	432.908	435.480	436.538	437.655	438.540	439.650	440.700	441.637
75.0	413.257	417.007	420.435	423.525	424.928	425.962	426.428	427.290	428.212	428.827
77.5	400.793	404.467	407.205	410.123	412.447	413.452	413.902	414.810	415.598	416.085
80.0	388.298	391.725	394.567	396.848	398.933	399.908	400.560	401.190	402.000	402.712
82.5	376.163	379.725	383.130	384.277	385.560	386.363	387.067	387.540	388.035	388.748
85.0	363.330	367.118	370.680	371.363	372.225	372.848	374.040	374.280	375.353	376.005
87.5	351.555	355.320	359.235	359.527	359.858	360.645	361.462	362.152	362.842	364.103
90.0	349.192	353.745	358.402	362.910	364.125	365.340	366.975	368.738	370.260	371.962
92.5	351.555	355.320	359.235	359.527	359.858	360.645	361.462	362.152	362.842	364.103
95.0	363.330	367.118	370.680	371.363	372.225	372.848	374.040	374.280	375.353	376.005
97.5	376.163	379.725	383.130	384.277	385.560	386.363	387.067	387.540	388.035	388.748
100.0	388.298	391.725	394.567	396.848	398.933	399.908	400.560	401.190	402.000	402.712
102.5	400.793	404.467	407.205	410.123	412.447	413.452	413.902	414.810	415.598	416.085
105.0	413.257	417.007	420.435	423.525	424.928	425.962	426.428	427.290	428.212	428.827
107.5	425.250	428.902	432.908	435.480	436.538	437.655	438.540	439.650	440.700	441.637
110.0	435.877	439.530	443.108	445.538	447.450	448.875	450.142	451.515	452.910	454.118
112.5	446.183	449.790	453.202	455.955	457.890	459.675	461.632	463.155	464.572	465.473
115.0	457.155	460.462	464.190	467.820	469.230	470.985	472.913	474.533	476.108	476.850
117.5	468.060	471.293	475.283	477.780	480.038	481.897	483.697	485.377	486.960	487.725
120.0	479.063	481.988	484.905	487.815	490.335	492.322	494.310	495.960	497.220	498.075
122.5	489.375	492.262	495.007	497.933	500.205	502.170	504.000	505.695	506.880	507.705
125.0	498.353	501.240	504.277	506.887	509.280	511.223	513.030	514.290	515.385	516.383
127.5	506.767	509.587	512.190	514.845	517.290	519.577	521.048	522.450	523.688	524.153
130.0	514.538	517.380	519.878	522.503	524.835	526.875	528.697	530.063	530.918	531.548

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

132.5	522.188	524.903	527.415	529.470	531.592	533.640	535.395	536.745	538.148	538.650
135.0	529.028	531.622	533.775	536.122	537.945	539.903	541.650	542.933	544.087	545.130
137.5	535.298	538.020	540.173	542.250	543.855	545.610	547.260	548.872	550.245	550.515
140.0	541.148	543.585	545.775	547.567	549.240	551.115	552.660	553.658	554.520	555.217
142.5	546.322	548.617	550.688	552.600	554.138	555.390	556.650	557.903	558.668	559.320
145.0	550.635	553.080	554.992	556.575	558.135	559.447	560.452	561.322	562.275	562.658
147.5	554.543	556.643	558.825	560.138	561.390	562.628	563.933	564.367	564.938	565.485
150.0	557.625	559.372	561.165	562.950	564.180	565.163	566.115	566.925	567.442	567.712
152.5	560.685	561.847	563.362	564.750	566.092	567.067	567.750	568.403	569.018	569.475
155.0	561.832	563.400	564.585	565.785	566.970	568.148	569.220	569.685	569.955	570.045
157.5	562.837	564.270	565.688	566.670	567.480	568.200	568.890	569.543	570.053	570.173
160.0	562.935	563.992	565.020	566.025	566.872	567.472	568.087	568.612	569.153	569.715
162.5	562.365	563.205	564.082	564.938	565.755	566.528	567.030	567.315	567.570	567.817
165.0	561.428	561.990	562.523	563.122	563.692	564.232	564.735	565.207	565.650	565.942
167.5	559.350	560.085	560.617	561.030	561.428	561.847	562.283	562.717	562.913	563.048
170.0	556.965	557.355	557.827	558.270	558.683	558.825	558.967	559.072	559.237	559.260
172.5	553.635	553.890	554.122	554.332	554.543	554.820	555.067	555.293	555.487	555.675
175.0	551.145	551.393	551.940	551.865	552.090	552.308	552.525	552.727	552.923	553.110
177.5	550.785	550.747	550.717	550.688	550.650	550.620	550.763	550.770	550.867	550.965
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

**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	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	551.048	551.130	551.212	551.288	551.355	551.415	551.475	551.528	551.572	551.617
5.0	553.290	553.485	553.673	553.875	554.070	554.242	554.408	554.558	554.685	554.805
7.5	555.758	556.163	556.357	556.852	556.740	556.905	557.085	557.258	557.408	557.543
10.0	559.335	559.380	559.388	559.357	559.305	559.215	559.942	560.190	560.122	560.310
12.5	563.138	563.197	563.220	563.190	562.995	562.755	562.477	562.163	561.908	562.230
15.0	566.092	566.242	566.250	566.063	565.837	565.575	565.260	564.908	564.510	564.053
17.5	568.043	568.222	568.365	568.455	568.485	568.125	567.525	566.835	566.115	565.357
20.0	569.895	569.970	569.707	569.438	569.160	568.808	568.440	567.795	566.970	566.115
22.5	570.210	570.278	570.217	569.925	569.587	569.303	568.793	568.260	567.487	566.347
25.0	570.097	570.097	570.067	569.970	569.595	568.928	568.230	567.518	566.775	565.898
27.5	569.783	569.572	569.227	568.852	568.665	568.065	567.540	566.707	565.673	564.518
30.0	567.967	568.043	568.087	567.832	567.240	566.370	565.553	564.742	563.513	562.253
32.5	565.830	566.055	565.890	565.500	565.260	564.150	563.408	562.275	561.442	559.673
35.0	563.303	563.122	563.040	562.665	562.207	561.540	560.362	558.915	557.535	556.163
37.5	559.582	559.695	559.635	559.485	558.630	557.648	556.590	555.308	553.755	552.090
40.0	555.712	555.847	555.585	555.120	554.640	553.665	552.210	550.590	548.798	546.817
42.5	550.920	551.145	551.250	550.313	549.405	548.528	546.885	545.107	543.315	541.492
45.0	545.768	545.640	545.197	544.612	543.705	542.438	540.990	539.408	537.337	535.298
47.5	538.995	539.145	539.355	538.477	537.375	536.265	534.803	532.942	531.045	528.668
50.0	532.080	532.185	531.952	531.653	530.940	529.560	527.888	525.952	523.830	521.393
52.5	524.572	524.737	524.625	524.122	523.455	522.143	520.350	518.467	516.120	513.480
55.0	516.870	516.758	516.487	515.925	514.913	513.675	512.340	510.030	507.683	505.223
57.5	508.005	508.005	507.952	506.858	505.702	504.495	502.680	500.745	498.480	495.938
60.0	498.555	498.488	497.887	497.033	495.923	494.423	492.683	490.635	488.190	485.483
62.5	488.168	488.280	487.530	486.600	485.288	483.892	482.280	480.502	478.200	475.065
65.0	477.270	477.413	476.873	475.785	474.525	472.995	471.600	470.355	467.745	464.340
67.5	465.750	466.125	465.757	464.618	463.395	461.842	460.290	458.910	456.735	453.502
70.0	454.132	454.545	454.305	453.142	451.905	450.870	449.738	448.200	446.070	443.063
72.5	441.870	442.027	441.803	440.993	440.033	439.342	439.020	437.805	436.072	432.120
75.0	429.090	429.135	429.007	428.460	427.613	427.447	426.885	425.752	423.248	419.955
77.5	416.430	416.385	416.205	415.710	414.765	414.668	414.082	412.305	409.553	406.702

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

80.0	403.320	402.975	402.465	401.970	401.385	401.010	400.223	398.520	396.368	393.743
82.5	389.595	389.017	388.462	388.147	387.757	387.248	386.550	385.455	384.120	381.308
85.0	377.085	376.215	375.248	374.670	374.130	373.433	372.780	372.105	371.505	368.190
87.5	365.445	364.223	363.113	362.340	361.897	360.930	360.442	359.895	359.947	355.860
90.0	373.267	373.777	373.755	373.140	372.473	371.730	371.092	370.890	369.810	365.798
92.5	365.445	364.223	363.113	362.340	361.897	360.930	360.442	359.895	359.947	355.860
95.0	377.085	376.215	375.248	374.670	374.130	373.433	372.780	372.105	371.505	368.190
97.5	389.595	389.017	388.462	388.147	387.757	387.248	386.550	385.455	384.120	381.308
100.0	403.320	402.975	402.465	401.970	401.385	401.010	400.223	398.520	396.368	393.743
102.5	416.430	416.385	416.205	415.710	414.765	414.668	414.082	412.305	409.553	406.702
105.0	429.090	429.135	429.007	428.460	427.613	427.447	426.885	425.752	423.248	419.955
107.5	441.870	442.027	441.803	440.993	440.033	439.342	439.020	437.805	436.072	432.120
110.0	454.132	454.545	454.305	453.142	451.905	450.870	449.738	448.200	446.070	443.063
112.5	465.750	466.125	465.757	464.618	463.395	461.842	460.290	458.910	456.735	453.502
115.0	477.270	477.413	476.873	475.785	474.525	472.995	471.600	470.355	467.745	464.340
117.5	488.168	488.280	487.530	486.600	485.288	483.892	482.280	480.502	478.200	475.065
120.0	498.555	498.488	497.887	497.033	495.923	494.423	492.683	490.635	488.190	485.483
122.5	508.005	508.005	507.952	506.858	505.702	504.495	502.680	500.745	498.480	495.938
125.0	516.870	516.758	516.487	515.925	514.913	513.675	512.340	510.030	507.683	505.223
127.5	524.572	524.737	524.625	524.122	523.455	522.143	520.350	518.467	516.120	513.480
130.0	532.080	532.185	531.952	531.653	530.940	529.560	527.888	525.952	523.830	521.393
132.5	538.995	539.145	539.355	538.477	537.375	536.265	534.803	532.942	531.045	528.668
135.0	545.768	545.640	545.197	544.612	543.705	542.438	540.990	539.408	537.337	535.298
137.5	550.920	551.145	551.250	550.313	549.405	548.528	546.885	545.107	543.315	541.492
140.0	555.712	555.847	555.585	555.120	554.640	553.665	552.210	550.590	548.798	546.817
142.5	559.582	559.695	559.635	559.485	558.630	557.648	556.590	555.308	553.755	552.090
145.0	563.303	563.122	563.040	562.665	562.207	561.540	560.362	558.915	557.535	556.163
147.5	565.830	566.055	565.890	565.500	565.260	564.150	563.408	562.275	561.442	559.673
150.0	567.967	568.043	568.087	567.832	567.240	566.370	565.553	564.742	563.513	562.253
152.5	569.783	569.572	569.227	568.852	568.665	568.065	567.540	566.707	565.673	564.518
155.0	570.097	570.097	570.067	569.970	569.595	568.928	568.230	567.518	566.775	565.898
157.5	570.210	570.278	570.217	569.925	569.587	569.303	568.793	568.260	567.487	566.347
160.0	569.895	569.970	569.707	569.438	569.160	568.808	568.440	567.795	566.970	566.115
162.5	568.043	568.222	568.365	568.455	568.485	568.125	567.525	566.835	566.115	565.357
165.0	566.092	566.242	566.250	566.063	565.837	565.575	565.260	564.908	564.510	564.053
167.5	563.138	563.197	563.220	563.190	562.995	562.755	562.477	562.163	561.908	562.230
170.0	559.335	559.380	559.388	559.357	559.305	559.215	559.942	560.190	560.122	560.310
172.5	555.758	556.163	556.357	556.852	556.740	556.905	557.085	557.258	557.408	557.543
175.0	553.290	553.485	553.673	553.875	554.070	554.242	554.408	554.558	554.685	554.805
177.5	551.048	551.130	551.212	551.288	551.355	551.415	551.475	551.528	551.572	551.617
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

Vert. Angles **Horizontal Angles**

	250.0	252.5	255.0	257.5	260.0	262.5	265.0	267.5	270.0	272.5
0.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	551.648	551.678	551.700	551.722	551.820	551.768	551.813	551.850	551.880	551.850
5.0	554.903	554.992	555.060	555.112	555.150	555.173	555.322	555.240	555.308	555.240
7.5	557.663	557.760	557.835	557.895	557.940	557.955	557.955	557.955	558.045	557.955
10.0	560.475	560.610	560.730	560.813	560.880	560.910	560.918	560.895	560.977	561.045
12.5	562.365	562.470	562.545	562.605	562.635	562.643	562.620	562.575	562.620	562.560
15.0	563.760	563.940	563.992	564.015	564.015	563.992	563.947	563.880	563.880	563.857
17.5	564.577	563.790	563.910	563.865	563.798	563.722	563.625	563.520	563.467	563.497
20.0	565.523	564.300	563.378	563.482	563.408	563.303	563.190	563.055	562.935	563.033
22.5	565.185	564.000	562.793	561.990	561.870	561.683	561.487	561.285	561.082	561.270
25.0	564.645	563.310	561.900	560.445	560.003	559.740	559.485	559.230	559.425	559.207

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

27.5	563.347	561.607	559.875	558.165	556.860	556.620	556.320	556.028	555.825	556.013
30.0	560.857	559.425	557.565	555.638	553.725	553.200	552.855	552.533	552.352	552.510
32.5	557.940	556.035	554.085	551.842	549.930	548.415	548.003	547.620	547.455	547.597
35.0	554.227	552.173	550.192	548.018	545.340	543.308	542.903	542.467	542.332	542.452
37.5	550.148	547.710	545.197	542.753	539.947	537.383	536.640	536.122	535.987	536.100
40.0	544.867	542.655	539.925	537.383	534.428	531.540	530.153	529.530	529.403	529.508
42.5	539.288	536.925	533.947	530.918	527.872	524.707	522.697	522.030	521.970	522.015
45.0	532.942	530.303	527.482	524.190	521.205	517.800	515.122	514.425	514.425	514.403
47.5	526.372	523.462	520.327	516.825	513.413	509.865	506.423	505.710	505.755	505.695
50.0	518.692	515.970	512.648	509.197	505.433	501.915	498.127	496.860	496.942	496.845
52.5	510.817	507.967	504.660	500.985	496.920	493.147	489.202	487.395	487.522	487.373
55.0	502.478	499.402	496.147	492.330	488.303	484.305	480.233	477.810	478.012	477.795
57.5	493.005	490.327	487.125	483.330	479.033	474.683	470.430	467.363	467.700	467.348
60.0	482.760	479.910	476.813	473.363	469.185	464.910	460.688	456.855	457.260	456.863
62.5	471.788	468.892	465.637	462.270	458.475	454.305	449.887	445.582	445.935	445.582
65.0	460.808	457.673	454.072	450.375	446.752	443.250	439.058	434.250	434.535	434.250
67.5	449.873	446.625	443.002	439.155	435.015	431.332	427.673	423.022	422.933	422.978
70.0	439.395	436.080	432.293	427.950	423.360	419.205	415.770	411.870	411.262	411.832
72.5	428.452	425.257	421.192	417.150	412.418	407.123	402.915	399.510	398.738	399.480
75.0	416.228	412.837	409.275	405.480	400.447	395.152	390.173	386.790	386.160	386.767
77.5	403.358	400.305	396.728	392.723	388.245	383.415	377.587	373.020	372.420	372.998
80.0	390.442	387.705	383.827	380.092	375.488	370.538	365.175	359.520	358.650	359.498
82.5	377.767	374.692	371.212	367.620	362.858	358.447	352.800	347.257	344.783	347.243
85.0	364.470	361.260	358.118	354.240	349.800	345.158	339.600	334.882	330.930	334.868
87.5	351.960	348.900	345.772	341.655	337.275	332.783	327.765	322.965	318.255	322.957
90.0	361.853	357.892	353.842	349.665	345.315	339.285	334.238	333.540	333.285	333.510
92.5	351.960	348.900	345.772	341.655	337.275	332.783	327.765	322.965	318.255	322.957
95.0	364.470	361.260	358.118	354.240	349.800	345.158	339.600	334.882	330.930	334.868
97.5	377.767	374.692	371.212	367.620	362.858	358.447	352.800	347.257	344.783	347.243
100.0	390.442	387.705	383.827	380.092	375.488	370.538	365.175	359.520	358.650	359.498
102.5	403.358	400.305	396.728	392.723	388.245	383.415	377.587	373.020	372.420	372.998
105.0	416.228	412.837	409.275	405.480	400.447	395.152	390.173	386.790	386.160	386.767
107.5	428.452	425.257	421.192	417.150	412.418	407.123	402.915	399.510	398.738	399.480
110.0	439.395	436.080	432.293	427.950	423.360	419.205	415.770	411.870	411.262	411.832
112.5	449.865	446.625	443.002	439.155	435.015	431.332	427.673	423.022	422.933	422.978
115.0	460.808	457.673	454.072	450.375	446.752	443.250	439.058	434.250	434.535	434.250
117.5	471.788	468.892	465.637	462.270	458.475	454.305	449.887	445.582	445.935	445.582
120.0	482.760	479.910	476.813	473.363	469.185	464.910	460.688	456.855	457.260	456.863
122.5	493.005	490.327	487.125	483.330	479.033	474.683	470.430	467.363	467.700	467.348
125.0	502.478	499.402	496.147	492.330	488.303	484.305	480.233	477.810	478.012	477.795
127.5	510.817	507.967	504.660	500.985	496.920	493.147	489.202	487.395	487.522	487.373
130.0	518.692	515.970	512.648	509.197	505.433	501.915	498.127	496.860	496.942	496.845
132.5	526.372	523.462	520.327	516.825	513.413	509.865	506.423	505.710	505.755	505.695
135.0	532.942	530.303	527.482	524.190	521.205	517.800	515.122	514.425	514.425	514.403
137.5	539.288	536.925	533.947	530.918	527.872	524.707	522.697	522.030	521.970	522.015
140.0	544.867	542.655	539.925	537.383	534.428	531.540	530.153	529.530	529.403	529.508
142.5	550.148	547.710	545.197	542.753	539.947	537.383	536.640	536.122	535.987	536.100
145.0	554.227	552.173	550.192	548.018	545.340	543.308	542.903	542.467	542.332	542.452
147.5	557.940	556.035	554.085	551.842	549.930	548.415	548.003	547.620	547.455	547.597
150.0	560.857	559.425	557.565	555.638	553.725	553.200	552.855	552.533	552.352	552.510
152.5	563.347	561.607	559.875	558.165	556.860	556.620	556.320	556.028	555.825	556.013
155.0	564.645	563.310	561.900	560.445	560.003	559.740	559.485	559.230	559.425	559.207
157.5	565.185	564.000	562.793	561.990	561.870	561.683	561.487	561.285	561.082	561.270
160.0	565.523	564.300	563.378	563.482	563.408	563.303	563.190	563.055	562.935	563.033
162.5	564.577	563.790	563.910	563.865	563.798	563.722	563.625	563.520	563.467	563.497
165.0	563.760	563.940	563.992	564.015	564.015	563.992	563.947	563.880	563.880	563.857

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

167.5	562.365	562.470	562.545	562.605	562.635	562.643	562.620	562.575	562.620	562.560
170.0	560.475	560.610	560.730	560.813	560.880	560.910	560.918	560.895	560.977	561.045
172.5	557.663	557.760	557.835	557.895	557.940	557.955	557.955	557.955	558.045	557.955
175.0	554.903	554.992	555.060	555.112	555.150	555.173	555.322	555.240	555.308	555.240
177.5	551.648	551.678	551.700	551.722	551.820	551.768	551.813	551.850	551.880	551.850
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

**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	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	551.813	551.775	551.722	551.955	551.685	551.663	551.633	551.595	551.558	551.505
5.0	555.165	555.158	555.135	555.097	555.045	554.970	554.888	554.783	554.670	554.535
7.5	557.940	557.940	557.918	557.880	557.820	557.745	557.648	557.528	557.393	557.242
10.0	560.903	560.895	560.857	560.798	560.715	560.595	560.460	560.295	560.107	559.898
12.5	562.605	562.620	562.620	562.590	562.530	562.455	562.350	562.313	561.900	562.072
15.0	563.925	563.977	564.000	564.000	563.977	563.925	563.753	563.962	564.420	564.817
17.5	563.610	563.700	563.783	563.850	563.895	563.753	564.487	565.268	566.025	566.745
20.0	563.168	563.288	563.393	563.467	563.362	564.202	565.425	566.025	566.888	567.705
22.5	561.465	561.660	561.855	561.982	562.695	563.910	565.095	566.265	567.405	568.178
25.0	559.470	559.725	559.987	560.347	561.810	563.220	564.555	565.815	566.692	567.435
27.5	556.298	556.605	556.845	558.075	559.785	561.518	563.258	564.420	565.590	566.625
30.0	552.840	553.185	553.635	555.548	557.475	559.342	560.760	562.170	563.430	564.668
32.5	547.980	548.400	549.540	551.753	553.995	555.952	557.850	559.590	561.360	562.192
35.0	542.888	543.293	545.250	547.928	550.110	552.082	554.138	556.080	557.460	558.840
37.5	536.625	537.293	539.857	542.663	545.115	547.620	550.065	552.008	553.673	555.225
40.0	530.138	531.450	534.330	537.293	539.835	542.565	544.785	546.742	548.722	550.508
42.5	522.675	524.625	527.783	530.835	533.857	536.842	539.205	541.418	543.232	545.033
45.0	515.107	517.717	521.122	524.107	527.393	530.220	532.860	535.222	537.255	539.332
47.5	506.363	509.783	513.330	516.735	520.245	523.380	526.290	528.585	530.962	532.867
50.0	498.045	501.832	505.350	509.115	512.558	515.895	518.617	521.310	523.755	525.878
52.5	489.127	493.072	496.837	500.902	504.577	507.892	510.743	513.405	516.045	518.400
55.0	480.158	484.230	488.205	492.248	496.072	499.327	502.410	505.147	507.608	509.962
57.5	470.363	474.615	478.950	483.255	487.050	490.260	492.938	495.870	498.413	500.678
60.0	460.620	464.842	469.110	473.288	476.738	479.842	482.692	485.415	488.123	490.575
62.5	449.820	454.245	458.408	462.202	465.570	468.817	471.720	474.998	478.140	480.442
65.0	438.998	443.190	446.685	450.308	454.005	457.613	460.740	464.280	467.685	470.295
67.5	427.620	431.280	434.947	439.095	442.942	446.572	449.813	453.450	456.675	458.858
70.0	415.725	419.152	423.308	427.897	432.240	436.027	439.342	443.010	446.017	448.147
72.5	402.870	407.077	412.365	417.105	421.140	425.205	428.400	432.067	436.027	437.760
75.0	390.135	395.115	400.402	405.442	409.230	412.793	416.183	419.910	423.202	425.715
77.5	377.558	383.377	388.207	392.685	396.690	400.275	403.320	406.665	409.515	412.275
80.0	365.152	370.507	375.457	380.063	383.798	387.675	390.405	393.712	396.337	398.490
82.5	352.777	358.433	362.835	367.598	371.190	374.670	377.745	381.285	384.098	385.433
85.0	339.585	345.142	349.785	354.225	358.103	361.245	364.447	368.175	371.490	372.090
87.5	327.757	332.775	337.260	341.647	345.765	348.892	351.952	355.853	359.933	359.887
90.0	334.178	339.105	345.127	349.500	353.655	357.705	361.868	365.618	369.637	370.733
92.5	327.757	332.775	337.260	341.647	345.765	348.892	351.952	355.853	359.933	359.887
95.0	339.585	345.142	349.785	354.225	358.103	361.245	364.447	368.175	371.490	372.090
97.5	352.777	358.433	362.835	367.598	371.190	374.670	377.745	381.285	384.098	385.433
100.0	365.152	370.507	375.457	380.063	383.798	387.675	390.405	393.712	396.337	398.490
102.5	377.558	383.377	388.207	392.685	396.690	400.275	403.320	406.665	409.515	412.275
105.0	390.135	395.115	400.402	405.442	409.230	412.793	416.183	419.910	423.202	425.715
107.5	402.870	407.077	412.365	417.105	421.140	425.205	428.400	432.067	436.027	437.760
110.0	415.725	419.152	423.308	427.897	432.240	436.027	439.342	443.010	446.017	448.147
112.5	427.620	431.280	434.947	439.095	442.942	446.572	449.805	453.450	456.675	458.858

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

115.0	438.998	443.190	446.685	450.308	454.005	457.613	460.740	464.280	467.685	470.295
117.5	449.820	454.245	458.408	462.202	465.570	468.817	471.720	474.998	478.140	480.442
120.0	460.620	464.842	469.110	473.288	476.738	479.842	482.692	485.415	488.123	490.575
122.5	470.363	474.615	478.950	483.255	487.050	490.260	492.938	495.870	498.413	500.678
125.0	480.158	484.230	488.205	492.248	496.072	499.327	502.410	505.147	507.608	509.962
127.5	489.127	493.072	496.837	500.902	504.577	507.892	510.743	513.405	516.045	518.400
130.0	498.045	501.832	505.350	509.115	512.558	515.895	518.617	521.310	523.755	525.878
132.5	506.363	509.783	513.330	516.735	520.245	523.380	526.290	528.585	530.962	532.867
135.0	515.107	517.717	521.122	524.107	527.393	530.220	532.860	535.222	537.255	539.332
137.5	522.675	524.625	527.783	530.835	533.857	536.842	539.205	541.418	543.232	545.033
140.0	530.138	531.450	534.330	537.293	539.835	542.565	544.785	546.742	548.722	550.508
142.5	536.625	537.293	539.857	542.663	545.115	547.620	550.065	552.008	553.673	555.225
145.0	542.888	543.293	545.250	547.928	550.110	552.082	554.138	556.080	557.460	558.840
147.5	547.980	548.400	549.540	551.753	553.995	555.952	557.850	559.590	561.360	562.192
150.0	552.840	553.185	553.635	555.548	557.475	559.342	560.760	562.170	563.430	564.668
152.5	556.298	556.605	556.845	558.075	559.785	561.518	563.258	564.420	565.590	566.625
155.0	559.470	559.725	559.987	560.347	561.810	563.220	564.555	565.815	566.692	567.435
157.5	561.465	561.660	561.855	561.982	562.695	563.910	565.095	566.265	567.405	568.178
160.0	563.168	563.288	563.393	563.467	563.362	564.202	565.425	566.025	566.888	567.705
162.5	563.610	563.700	563.783	563.850	563.895	563.753	564.487	565.268	566.025	566.745
165.0	563.925	563.977	564.000	564.000	563.977	563.925	563.753	563.962	564.420	564.817
167.5	562.605	562.620	562.620	562.590	562.530	562.455	562.350	562.313	561.900	562.072
170.0	560.903	560.895	560.857	560.798	560.715	560.595	560.460	560.295	560.107	559.898
172.5	557.940	557.940	557.918	557.880	557.820	557.745	557.648	557.528	557.393	557.242
175.0	555.165	555.158	555.135	555.097	555.045	554.970	554.888	554.783	554.670	554.535
177.5	551.813	551.775	551.722	551.955	551.685	551.663	551.633	551.595	551.558	551.505
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

**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	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	551.452	551.400	551.332	551.265	551.190	551.115	551.033	550.942	550.852	550.755
5.0	554.393	554.227	554.055	553.860	553.658	553.470	553.275	553.095	552.908	552.712
7.5	557.070	556.890	556.725	556.538	556.342	556.148	555.742	555.720	555.390	555.195
10.0	559.928	559.192	559.207	559.268	559.290	559.283	559.245	559.170	559.148	558.982
12.5	562.388	562.665	562.905	563.100	563.130	563.107	563.055	562.957	562.822	562.643
15.0	565.170	565.485	565.755	565.980	566.160	566.168	566.018	565.860	565.575	565.133
17.5	567.442	568.035	568.575	568.380	568.283	568.140	567.960	567.742	567.495	567.240
20.0	568.357	568.725	569.085	569.362	569.633	569.895	569.820	569.640	569.130	568.545
22.5	568.710	569.220	569.513	569.850	570.143	570.150	570.143	570.097	569.985	569.475
25.0	568.155	568.845	569.520	569.835	569.992	570.030	570.023	569.977	569.888	569.617
27.5	567.465	567.990	568.365	568.778	569.153	569.497	569.715	569.408	568.965	568.350
30.0	565.477	566.295	567.165	567.758	568.013	567.975	568.013	567.653	567.390	566.872
32.5	563.107	564.075	565.185	565.425	565.822	565.995	565.770	565.433	564.885	564.315
35.0	560.288	561.465	562.133	562.590	562.980	563.063	563.242	562.605	562.335	561.278
37.5	556.515	557.572	558.555	559.410	559.575	559.643	559.523	559.275	558.622	557.865
40.0	552.128	553.590	554.572	555.060	555.525	555.795	555.668	555.173	554.482	553.620
42.5	546.810	548.580	549.337	550.253	551.190	551.100	550.867	550.477	550.192	548.842
45.0	540.923	542.370	543.645	544.553	545.145	545.550	545.722	545.092	544.050	542.895
47.5	534.847	536.205	537.315	538.425	539.295	539.092	538.950	538.612	538.110	536.715
50.0	527.820	529.492	530.872	531.592	531.908	532.133	532.043	531.510	530.888	530.033
52.5	520.283	522.075	523.492	524.070	524.572	524.692	524.535	524.115	523.725	522.420
55.0	512.273	513.615	514.860	515.872	516.442	516.712	516.832	516.345	515.355	514.268
57.5	502.620	504.435	505.650	506.805	507.900	507.967	507.967	507.675	506.858	505.673
60.0	492.623	494.363	495.870	496.988	497.842	498.442	498.525	498.045	497.197	495.945

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

62.5	482.228	483.840	485.243	486.555	487.485	488.243	488.137	487.695	486.938	485.355
65.0	471.548	472.942	474.473	475.740	476.827	477.375	477.240	476.820	476.085	474.510
67.5	460.238	461.790	463.350	464.572	465.712	466.095	465.720	465.442	464.550	463.132
70.0	449.692	450.825	451.868	453.098	454.267	454.515	454.110	454.095	452.887	451.500
72.5	438.600	439.305	439.995	440.955	441.765	442.005	441.848	441.615	440.685	439.627
75.0	426.848	427.410	427.575	428.430	428.978	429.105	429.067	428.798	428.190	427.275
77.5	414.053	414.645	414.735	415.680	416.183	416.363	416.408	416.063	415.575	414.788
80.0	400.200	400.988	401.363	401.947	402.457	402.960	403.305	402.697	401.985	401.175
82.5	386.527	387.233	387.743	388.132	388.447	389.002	389.580	388.733	388.020	387.533
85.0	372.765	373.418	374.115	374.655	375.233	376.207	377.077	375.990	375.345	374.272
87.5	360.428	360.923	361.890	362.332	363.105	364.215	365.438	364.095	362.835	362.152
90.0	370.942	371.572	372.330	372.990	373.613	373.658	373.155	371.865	370.163	368.655
92.5	360.428	360.923	361.890	362.332	363.105	364.215	365.438	364.103	362.835	362.152
95.0	372.765	373.418	374.115	374.655	375.233	376.207	377.077	375.990	375.345	374.272
97.5	386.527	387.233	387.743	388.132	388.447	389.002	389.580	388.733	388.020	387.533
100.0	400.200	400.988	401.363	401.947	402.457	402.960	403.305	402.697	401.985	401.175
102.5	414.053	414.645	414.735	415.680	416.183	416.363	416.408	416.063	415.575	414.788
105.0	426.848	427.410	427.575	428.430	428.978	429.105	429.067	428.798	428.190	427.275
107.5	438.600	439.305	439.995	440.955	441.765	442.005	441.848	441.615	440.685	439.627
110.0	449.692	450.825	451.868	453.098	454.267	454.515	454.110	454.095	452.887	451.500
112.5	460.238	461.790	463.350	464.572	465.712	466.095	465.720	465.442	464.550	463.132
115.0	471.548	472.942	474.473	475.740	476.827	477.375	477.240	476.820	476.085	474.510
117.5	482.228	483.840	485.243	486.555	487.485	488.243	488.137	487.695	486.938	485.355
120.0	492.623	494.363	495.870	496.988	497.842	498.442	498.525	498.045	497.197	495.945
122.5	502.620	504.435	505.650	506.805	507.900	507.967	507.967	507.675	506.858	505.673
125.0	512.273	513.615	514.860	515.872	516.442	516.712	516.832	516.345	515.355	514.268
127.5	520.283	522.075	523.492	524.070	524.572	524.692	524.535	524.115	523.725	522.420
130.0	527.820	529.492	530.872	531.592	531.908	532.133	532.043	531.510	530.888	530.033
132.5	534.847	536.205	537.315	538.425	539.295	539.092	538.950	538.612	538.110	536.715
135.0	540.923	542.370	543.645	544.553	545.145	545.550	545.722	545.092	544.050	542.895
137.5	546.810	548.580	549.337	550.253	551.190	551.100	550.867	550.477	550.192	548.842
140.0	552.128	553.590	554.572	555.060	555.525	555.795	555.668	555.173	554.482	553.620
142.5	556.515	557.572	558.555	559.410	559.575	559.643	559.523	559.275	558.622	557.865
145.0	560.288	561.465	562.133	562.590	562.980	563.063	563.242	562.605	562.335	561.278
147.5	563.107	564.075	565.185	565.425	565.822	565.995	565.770	565.433	564.885	564.315
150.0	565.477	566.295	567.165	567.758	568.013	567.975	568.013	567.653	567.390	566.872
152.5	567.465	567.990	568.365	568.778	569.153	569.497	569.715	569.408	568.965	568.350
155.0	568.155	568.845	569.520	569.835	569.992	570.030	570.023	569.977	569.888	569.617
157.5	568.710	569.220	569.513	569.850	570.143	570.150	570.143	570.097	569.985	569.475
160.0	568.357	568.725	569.085	569.362	569.633	569.895	569.820	569.640	569.130	568.545
162.5	567.442	568.035	568.575	568.380	568.283	568.140	567.960	567.742	567.495	567.240
165.0	565.170	565.485	565.755	565.980	566.160	566.168	566.018	565.860	565.575	565.133
167.5	562.388	562.665	562.905	563.100	563.130	563.107	563.055	562.957	562.822	562.643
170.0	559.928	559.192	559.207	559.268	559.290	559.283	559.245	559.170	559.148	558.982
172.5	557.070	556.890	556.725	556.538	556.342	556.148	555.742	555.720	555.390	555.195
175.0	554.393	554.227	554.055	553.860	553.658	553.470	553.275	553.095	552.908	552.712
177.5	551.452	551.400	551.332	551.265	551.190	551.115	551.033	550.942	550.852	550.755
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

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	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942
2.5	550.747	550.605	550.635	550.665	550.702	550.732	550.763	550.800	550.830	550.860
5.0	552.510	552.293	552.075	551.850	551.617	551.565	551.130	550.883	550.755	550.815
7.5	554.977	554.722	554.445	554.242	554.033	553.800	553.545	553.268	552.975	552.660

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

10.0	558.878	558.735	558.592	558.180	557.737	557.265	556.883	556.500	556.102	555.923
12.5	562.207	561.773	561.345	560.955	560.535	560.010	559.268	558.503	557.918	557.310
15.0	564.660	564.158	563.617	563.048	562.447	561.915	561.352	560.550	559.605	558.847
17.5	566.955	566.452	565.808	564.862	564.015	563.130	562.290	561.480	560.475	559.313
20.0	568.013	567.398	566.805	565.957	564.952	563.925	562.867	561.840	560.865	559.635
22.5	568.822	568.133	567.413	566.610	565.628	564.217	562.785	561.352	560.018	558.735
25.0	569.153	568.095	566.918	565.732	564.533	563.347	561.788	560.205	558.660	557.168
27.5	567.697	567.015	566.040	564.697	563.310	561.803	560.430	558.435	556.500	554.648
30.0	566.063	565.110	564.135	562.913	561.128	559.342	557.595	555.803	553.680	551.587
32.5	563.888	562.590	561.352	560.100	558.780	556.605	554.513	552.442	550.260	547.763
35.0	560.415	559.418	558.105	556.538	555.060	553.058	550.620	548.197	545.857	543.247
37.5	556.612	555.352	554.107	552.570	550.665	548.595	546.308	543.563	540.847	538.237
40.0	552.630	551.085	549.217	547.545	545.760	543.563	541.140	538.342	535.275	532.440
42.5	547.230	545.580	543.832	541.995	540.158	538.013	535.290	532.470	529.237	526.080
45.0	541.620	539.872	537.923	536.100	533.760	531.615	529.020	526.020	522.862	519.375
47.5	535.440	533.617	531.570	529.455	527.408	524.895	522.180	518.955	515.715	511.973
50.0	528.675	526.852	524.820	522.495	519.870	517.372	514.538	511.575	508.118	504.315
52.5	521.025	519.555	517.275	514.830	512.175	509.580	506.760	503.490	499.913	496.065
55.0	513.008	511.207	509.265	506.880	504.322	501.240	498.345	495.113	491.603	487.613
57.5	503.985	502.155	500.197	497.933	495.007	492.255	489.382	486.240	482.460	478.553
60.0	494.295	492.308	490.327	487.808	484.905	481.980	479.070	475.875	472.725	469.043
62.5	483.683	481.882	480.030	477.765	475.313	471.293	468.038	465.007	461.663	457.942
65.0	472.897	470.970	469.215	467.805	464.190	460.462	457.155	453.690	449.940	446.235
67.5	461.618	459.660	457.875	455.947	453.202	449.790	446.183	442.725	439.095	435.165
70.0	450.127	448.860	447.435	445.522	443.100	439.530	435.877	432.480	428.423	424.020
72.5	438.525	437.640	436.522	435.473	432.908	428.895	425.250	421.845	417.690	413.655
75.0	426.413	425.955	424.920	423.517	420.435	417.007	413.257	409.935	406.267	402.442
77.5	413.887	413.438	412.440	410.115	407.205	404.475	400.785	397.800	394.252	390.045
80.0	400.545	399.892	398.925	396.840	394.560	391.725	388.298	385.493	381.592	377.910
82.5	387.053	386.355	385.553	384.270	383.123	379.725	376.155	373.027	369.480	365.858
85.0	374.040	372.840	372.217	371.355	370.673	367.118	363.322	360.173	356.962	353.055
87.5	361.455	360.637	359.850	359.527	359.235	355.320	351.555	348.360	345.202	341.070
90.0	366.900	365.265	364.065	362.850	358.373	353.723	349.178	345.158	340.762	335.783
92.5	361.455	360.637	359.850	359.527	359.235	355.320	351.555	348.360	345.202	341.070
95.0	374.040	372.840	372.217	371.355	370.673	367.118	363.322	360.173	356.962	353.055
97.5	387.053	386.355	385.553	384.270	383.123	379.725	376.155	373.027	369.480	365.858
100.0	400.545	399.892	398.925	396.840	394.560	391.725	388.298	385.493	381.592	377.910
102.5	413.887	413.438	412.440	410.115	407.205	404.475	400.785	397.800	394.252	390.045
105.0	426.413	425.955	424.920	423.517	420.435	417.007	413.257	409.935	406.260	402.442
107.5	438.525	437.640	436.522	435.473	432.908	428.895	425.250	421.845	417.690	413.655
110.0	450.127	448.860	447.435	445.522	443.100	439.530	435.877	432.480	428.423	424.020
112.5	461.618	459.660	457.875	455.947	453.202	449.790	446.183	442.725	439.095	435.165
115.0	472.897	470.970	469.215	467.805	464.190	460.462	457.155	453.690	449.940	446.235
117.5	483.683	481.882	480.030	477.765	475.313	471.293	468.038	465.007	461.663	457.942
120.0	494.295	492.308	490.327	487.808	484.905	481.980	479.070	475.875	472.725	469.043
122.5	503.985	502.155	500.197	497.933	495.007	492.255	489.382	486.240	482.460	478.553
125.0	513.008	511.207	509.265	506.880	504.322	501.240	498.345	495.113	491.603	487.613
127.5	521.025	519.555	517.275	514.830	512.175	509.580	506.760	503.490	499.913	496.065
130.0	528.675	526.852	524.820	522.495	519.870	517.372	514.538	511.582	508.118	504.315
132.5	535.440	533.617	531.570	529.455	527.408	524.895	522.180	518.955	515.715	511.973
135.0	541.620	539.872	537.923	536.100	533.760	531.615	529.020	526.020	522.862	519.375
137.5	547.230	545.580	543.832	541.995	540.158	538.013	535.290	532.470	529.237	526.080
140.0	552.630	551.085	549.217	547.545	545.760	543.563	541.140	538.342	535.275	532.440
142.5	556.612	555.352	554.107	552.570	550.665	548.595	546.308	543.563	540.847	538.237
145.0	560.415	559.418	558.105	556.538	555.060	553.058	550.620	548.197	545.857	543.247
147.5	563.888	562.590	561.352	560.100	558.780	556.605	554.513	552.442	550.260	547.763

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

150.0	566.063	565.110	564.135	562.913	561.128	559.342	557.595	555.803	553.680	551.587
152.5	567.697	567.015	566.040	564.697	563.310	561.803	560.430	558.435	556.500	554.648
155.0	569.153	568.095	566.918	565.732	564.533	563.347	561.788	560.205	558.660	557.168
157.5	568.822	568.133	567.413	566.610	565.628	564.217	562.785	561.352	560.018	558.735
160.0	568.013	567.398	566.805	565.957	564.952	563.925	562.867	561.840	560.865	559.635
162.5	566.955	566.452	565.808	564.862	564.015	563.130	562.290	561.480	560.475	559.313
165.0	564.660	564.158	563.617	563.048	562.447	561.915	561.352	560.550	559.605	558.847
167.5	562.207	561.773	561.345	560.955	560.535	560.010	559.268	558.503	557.918	557.310
170.0	558.878	558.735	558.592	558.180	557.737	557.265	556.883	556.500	556.102	555.923
172.5	554.977	554.722	554.445	554.242	554.033	553.800	553.545	553.268	552.975	552.660
175.0	552.510	552.293	552.075	551.850	551.617	551.565	551.130	550.883	550.755	550.815
177.5	550.747	550.605	550.635	550.665	550.702	550.732	550.763	550.800	550.830	550.860
180.0	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942	550.942

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	550.942	550.942	550.942	550.942	550.942
2.5	550.890	550.920	550.950	550.995	551.010
5.0	550.875	550.935	550.995	551.055	551.107
7.5	552.428	552.563	552.690	552.795	552.885
10.0	555.202	554.798	554.947	555.075	555.195
12.5	556.688	556.050	555.803	555.960	556.102
15.0	558.105	557.347	556.628	557.085	557.212
17.5	558.330	557.385	556.433	556.342	556.530
20.0	558.367	557.288	556.192	555.780	556.028
22.5	557.048	555.727	554.423	553.628	553.852
25.0	555.563	553.913	552.457	551.325	551.565
27.5	552.915	550.913	549.225	547.680	547.928
30.0	549.660	547.553	545.700	543.945	544.043
32.5	545.452	543.180	541.005	538.965	538.913
35.0	540.675	538.327	535.965	533.753	533.505
37.5	535.290	532.612	530.063	527.648	527.190
40.0	529.290	526.327	523.658	521.100	520.447
42.5	522.915	519.638	516.765	513.997	513.128
45.0	516.173	512.580	509.558	506.632	505.545
47.5	508.530	504.803	501.502	498.517	497.220
50.0	500.490	496.620	493.027	489.945	488.377
52.5	492.105	488.160	484.380	481.103	479.250
55.0	483.548	479.377	475.185	471.877	469.785
57.5	474.368	470.108	465.840	462.217	459.915
60.0	464.783	460.387	455.775	452.152	449.595
62.5	454.103	449.962	445.245	441.563	438.720
65.0	442.710	439.358	434.550	430.725	427.560
67.5	430.890	427.522	423.525	419.842	416.490
70.0	419.475	415.695	412.020	408.772	405.202
72.5	408.908	403.702	399.368	396.810	393.330
75.0	397.230	392.168	387.067	384.360	381.270
77.5	385.515	380.738	374.783	370.890	368.288
80.0	373.118	368.385	362.925	357.788	355.215
82.5	361.058	356.820	351.038	345.863	342.173
85.0	348.600	344.033	338.423	333.960	329.175
87.5	336.652	332.212	327.195	322.515	317.370
90.0	330.563	325.215	320.002	314.002	312.293
92.5	336.652	332.212	327.195	322.515	317.370
95.0	348.600	344.033	338.423	333.960	329.175

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

CANDELA TABULATION - (Cont.)

97.5	361.058	356.820	351.038	345.863	342.173
100.0	373.118	368.385	362.925	357.788	355.215
102.5	385.515	380.738	374.783	370.890	368.288
105.0	397.230	392.168	387.067	384.360	381.270
107.5	408.908	403.702	399.368	396.810	393.330
110.0	419.475	415.695	412.020	408.772	405.202
112.5	430.890	427.522	423.525	419.842	416.490
115.0	442.710	439.358	434.550	430.725	427.560
117.5	454.103	449.962	445.245	441.563	438.720
120.0	464.783	460.387	455.775	452.152	449.595
122.5	474.368	470.108	465.840	462.217	459.915
125.0	483.548	479.377	475.185	471.877	469.785
127.5	492.105	488.160	484.380	481.103	479.250
130.0	500.490	496.620	493.027	489.945	488.377
132.5	508.530	504.803	501.502	498.517	497.220
135.0	516.173	512.580	509.558	506.632	505.545
137.5	522.915	519.638	516.765	513.997	513.128
140.0	529.290	526.327	523.658	521.100	520.447
142.5	535.290	532.612	530.063	527.648	527.190
145.0	540.675	538.327	535.965	533.753	533.505
147.5	545.452	543.180	541.005	538.965	538.913
150.0	549.660	547.553	545.700	543.945	544.043
152.5	552.915	550.913	549.225	547.680	547.928
155.0	555.563	553.913	552.457	551.325	551.565
157.5	557.048	555.727	554.423	553.628	553.852
160.0	558.367	557.288	556.192	555.780	556.028
162.5	558.330	557.385	556.433	556.342	556.530
165.0	558.105	557.347	556.628	557.085	557.212
167.5	556.688	556.050	555.803	555.960	556.102
170.0	555.202	554.798	554.947	555.075	555.195
172.5	552.428	552.563	552.690	552.795	552.885
175.0	550.875	550.935	550.995	551.055	551.107
177.5	550.890	550.920	550.950	550.995	551.010
180.0	550.942	550.942	550.942	550.942	550.942

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	212.55	N.A.	3.60
0-30	473.10	N.A.	8.00
0-40	819.68	N.A.	13.80
0-60	1677.94	N.A.	28.30
0-80	2570.09	N.A.	43.30
0-90	2967.57	N.A.	50.00
10-90	2914.59	N.A.	49.10
20-40	607.14	N.A.	10.20
20-50	1017.6	N.A.	17.10
40-70	1313.69	N.A.	22.10
60-80	892.15	N.A.	15.00
70-80	436.72	N.A.	7.40
80-90	397.48	N.A.	6.70
90-110	834.19	N.A.	14.10
90-120	1289.62	N.A.	21.70
90-130	1737.41	N.A.	29.30
90-150	2494.47	N.A.	42.00
90-180	2967.57	N.A.	50.00
110-180	2133.38	N.A.	35.90
0-180	5935.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.98
10-20	159.57
20-30	260.55
30-40	346.58
40-50	410.47
50-60	447.79
60-70	455.43
70-80	436.72
80-90	397.48
90-100	397.48
100-110	436.72
110-120	455.43
120-130	447.79
130-140	410.47
140-150	346.58
150-160	260.55
160-170	159.57
170-180	52.98

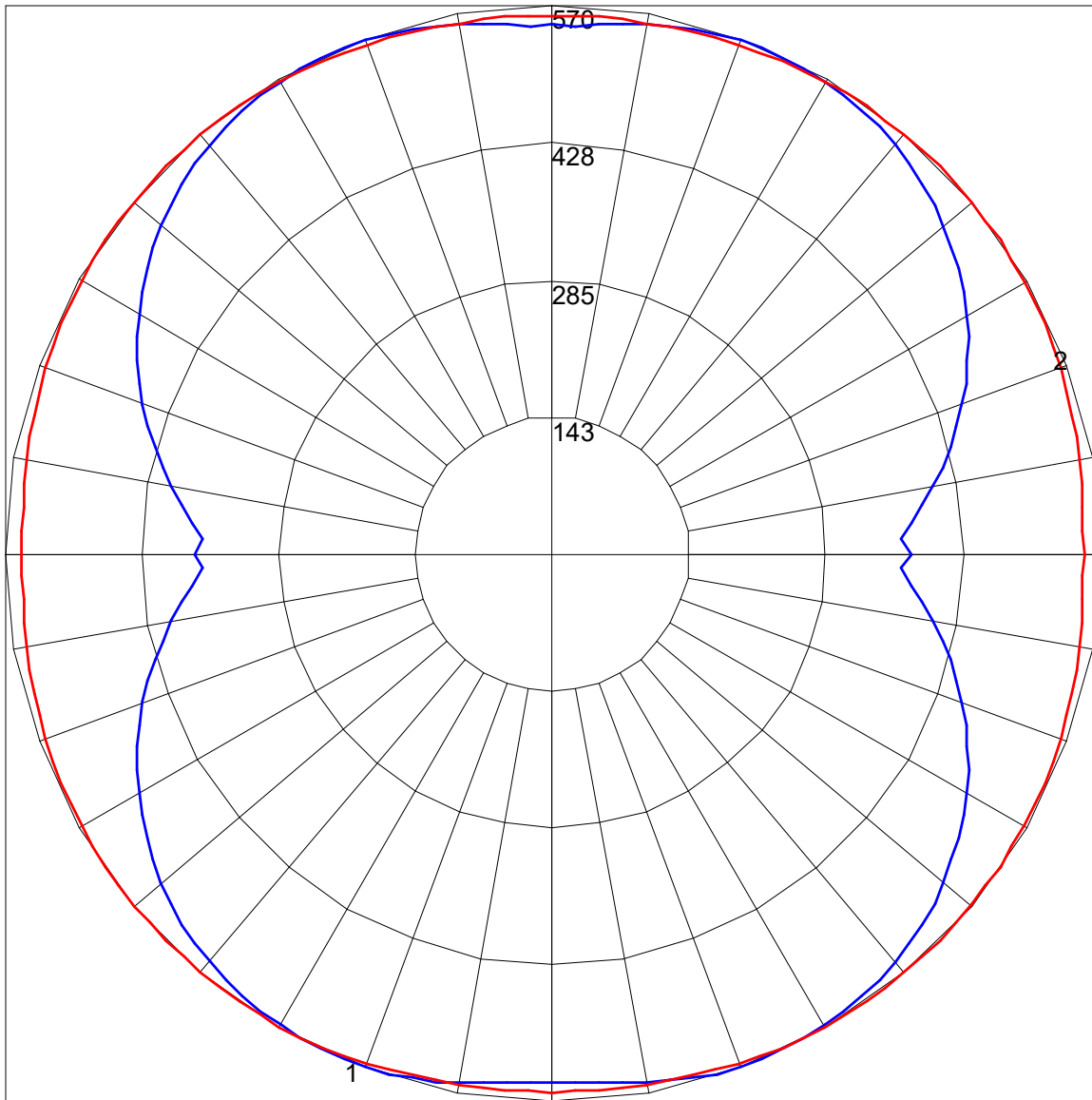
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ZIS-14-LED4-MO-SAL.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	95	89	84	79	87	82	77	73	68	65	62	56	53	51	44	43	41	35
2	85	76	68	62	77	70	63	57	58	53	49	47	43	40	37	35	32	27
3	77	66	57	50	70	60	53	47	50	44	39	41	36	33	32	29	26	22
4	70	57	48	42	63	53	45	39	44	38	33	36	31	27	28	24	22	18
5	64	51	42	35	58	47	39	33	39	33	28	32	27	23	25	21	18	15
6	58	45	36	30	53	42	34	28	35	28	24	28	23	20	22	19	16	13
7	54	41	32	26	49	37	30	24	31	25	21	26	21	17	20	17	14	11
8	50	37	28	23	45	34	26	21	28	22	18	23	18	15	19	15	12	10
9	46	33	25	20	42	31	24	19	26	20	16	21	17	13	17	13	11	8
10	43	30	23	18	40	28	21	17	24	18	14	20	15	12	16	12	10	8

POLAR GRAPH



Maximum Candela = 570.36 Located At Horizontal Angle = 132.5, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (132.5 - 312.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)