

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HP3-P-D-4FT-S-835-DAO-120-KPL2008-115.003.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] KPL2008-115.003 Family Correlation File
[TESTLAB] Northern Lights Testing Laboratories
[ISSUE DATE] 1/29/2025
[TEST DATE] 1/29/2025
[MANUFAC] Finelite, Inc.
[LUMCAT] HP3-P-D-4ft-S-835-DAO
[LUMINAIRE] HP3 Series
[LAMPCAT] 160 757HT-V2H6 LEDs with 80CRI
[LAMP] Nichia
[BALLAST] Osram
[BALLASTCAT] OTi50, 700mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2458
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	26.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.44
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.10 m
Luminous Width (90-270)	1.22 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7644	8115	6064
55	6360	7148	5469
65	5179	6043	4818
75	4109	4852	4078
85	3107	3645	3298

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975
2.5	970.455	970.050	972.177	973.595	973.139	970.961	970.505	970.303	968.328	967.973
5.0	1002.361	1001.956	1003.881	1004.387	1003.323	999.879	997.702	995.676	991.574	988.890
7.5	1031.634	1031.077	1032.798	1032.798	1030.823	1026.113	1022.467	1018.263	1012.186	1007.527
10.0	1057.058	1056.601	1058.121	1057.007	1054.728	1048.599	1043.282	1037.508	1029.304	1022.265
12.5	1077.011	1076.454	1077.619	1076.556	1073.061	1066.629	1059.742	1052.601	1042.370	1033.052
15.0	1089.166	1088.457	1089.926	1088.102	1084.709	1077.568	1069.820	1061.970	1050.777	1039.787
17.5	1093.319	1092.458	1094.231	1092.205	1088.558	1081.772	1073.314	1064.755	1052.398	1040.598
20.0	1088.964	1087.950	1089.926	1088.102	1084.811	1078.379	1069.769	1061.109	1048.397	1035.482
22.5	1075.289	1074.935	1076.809	1075.644	1072.859	1067.642	1059.336	1050.575	1038.318	1024.848
25.0	1053.411	1053.107	1055.437	1055.032	1053.107	1048.751	1041.813	1033.660	1022.213	1008.539
27.5	1023.733	1023.480	1026.215	1026.670	1025.404	1022.467	1017.251	1010.262	1000.082	986.813
30.0	986.661	986.459	989.649	991.270	990.510	989.902	986.104	980.634	972.025	960.275
32.5	943.309	943.816	947.006	949.336	950.095	950.855	949.589	945.436	938.954	928.521
35.0	893.981	895.349	899.248	902.389	904.515	907.301	907.959	905.478	901.223	892.411
37.5	841.412	843.184	846.426	851.642	854.427	859.340	861.974	861.214	858.783	851.845
40.0	786.311	788.438	791.679	798.009	802.112	808.240	812.646	813.912	812.747	808.189
42.5	729.487	731.209	735.159	742.300	746.352	753.949	759.671	764.280	764.533	762.153
45.0	672.360	674.132	677.981	685.679	690.592	698.239	706.039	712.116	714.395	713.787
47.5	614.422	616.904	621.411	627.944	634.933	642.682	651.798	659.040	662.788	663.801
50.0	558.713	561.498	564.740	572.032	579.882	587.530	597.203	605.559	610.320	611.839
52.5	505.232	508.017	511.158	517.944	525.996	533.543	543.520	551.775	558.358	560.840
55.0	453.777	456.461	459.348	465.780	473.427	480.872	490.089	498.902	506.853	509.993
57.5	405.057	407.285	409.817	415.692	422.782	430.227	438.583	448.459	455.600	460.158
60.0	357.755	359.932	362.768	368.187	374.619	382.368	390.015	398.523	406.272	411.337
62.5	313.795	315.416	318.454	322.506	329.039	336.484	343.827	351.171	358.463	363.781
65.0	272.236	273.857	275.685	279.944	285.545	292.458	299.361	305.874	312.285	317.695
67.5	233.756	235.078	236.891	240.507	245.298	250.985	257.336	263.743	268.529	273.239
70.0	196.856	198.912	200.508	203.359	207.183	212.425	217.879	223.444	228.069	231.670
72.5	163.279	165.360	166.039	168.075	171.863	175.610	181.070	185.273	189.609	193.103
75.0	132.274	133.571	134.984	136.260	139.298	142.484	146.095	150.375	153.692	156.199
77.5	103.396	104.541	106.404	107.590	108.927	112.047	114.867	117.668	120.519	122.712
80.0	77.639	78.028	79.396	80.784	81.807	83.508	86.035	88.325	90.441	92.128
82.5	54.565	54.707	55.168	56.509	57.826	58.642	59.675	61.493	63.199	64.162
85.0	33.679	33.755	34.312	34.874	35.461	36.687	37.579	38.308	38.875	39.518
87.5	15.345	15.376	15.356	15.644	15.974	16.181	16.632	17.407	17.913	18.354
90.0	1.205	1.230	1.256	1.276	1.286	1.317	1.347	1.388	1.443	1.504
92.5	0.892	0.892	0.907	0.912	0.912	0.917	0.932	0.942	0.962	0.972
95.0	0.810	0.805	0.810	0.816	0.816	0.816	0.825	0.825	0.841	0.851
97.5	0.770	0.770	0.770	0.770	0.770	0.775	0.775	0.780	0.790	0.800
100.0	0.749	0.749	0.755	0.755	0.749	0.749	0.749	0.760	0.760	0.770
102.5	0.740	0.740	0.749	0.744	0.744	0.740	0.744	0.744	0.744	0.749
105.0	0.740	0.740	0.740	0.744	0.734	0.740	0.734	0.734	0.740	0.744
107.5	0.740	0.740	0.744	0.740	0.734	0.734	0.734	0.734	0.734	0.740
110.0	0.729	0.734	0.740	0.740	0.734	0.734	0.724	0.724	0.729	0.740
112.5	0.729	0.740	0.744	0.740	0.740	0.740	0.724	0.729	0.729	0.729
115.0	0.740	0.729	0.740	0.734	0.729	0.729	0.719	0.724	0.724	0.729
117.5	0.760	0.765	0.765	0.770	0.765	0.760	0.755	0.755	0.755	0.760
120.0	0.841	0.841	0.841	0.836	0.831	0.831	0.825	0.825	0.836	0.831
122.5	0.952	0.952	0.957	0.947	0.952	0.947	0.947	0.942	0.942	0.957
125.0	1.094	1.089	1.099	1.094	1.094	1.089	1.084	1.089	1.094	1.099
127.5	1.266	1.261	1.266	1.261	1.256	1.256	1.251	1.261	1.261	1.266
130.0	1.418	1.418	1.428	1.428	1.423	1.428	1.428	1.433	1.438	1.449
132.5	1.590	1.590	1.595	1.595	1.600	1.600	1.600	1.615	1.626	1.641

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CANDELA TABULATION - (Cont.)

135.0	1.783	1.783	1.788	1.788	1.788	1.798	1.803	1.813	1.833	1.848
137.5	1.975	1.980	1.985	1.991	1.985	1.995	2.011	2.020	2.041	2.066
140.0	2.178	2.178	2.188	2.188	2.198	2.203	2.213	2.228	2.249	2.284
142.5	2.370	2.370	2.385	2.390	2.385	2.405	2.416	2.436	2.456	2.492
145.0	2.553	2.557	2.568	2.573	2.578	2.588	2.598	2.623	2.649	2.689
147.5	2.725	2.720	2.735	2.745	2.750	2.765	2.781	2.801	2.826	2.862
150.0	2.877	2.877	2.892	2.892	2.912	2.917	2.938	2.963	2.998	3.039
152.5	3.018	3.014	3.034	3.039	3.054	3.064	3.079	3.110	3.140	3.186
155.0	3.130	3.135	3.155	3.160	3.171	3.186	3.206	3.241	3.282	3.323
157.5	3.251	3.262	3.272	3.272	3.287	3.323	3.348	3.378	3.424	3.464
160.0	3.383	3.398	3.408	3.413	3.428	3.454	3.484	3.515	3.545	3.571
162.5	3.504	3.510	3.530	3.530	3.550	3.586	3.611	3.626	3.636	3.656
165.0	3.636	3.641	3.661	3.677	3.692	3.697	3.707	3.707	3.712	3.717
167.5	3.798	3.804	3.829	3.829	3.819	3.809	3.793	3.783	3.783	3.778
170.0	3.991	3.981	3.970	3.935	3.910	3.885	3.859	3.839	3.829	3.824
172.5	4.031	4.026	4.011	3.970	3.935	3.910	3.880	3.864	3.854	3.849
175.0	3.880	3.910	3.940	3.925	3.910	3.885	3.869	3.854	3.849	3.839
177.5	3.788	3.783	3.804	3.813	3.813	3.813	3.804	3.798	3.793	3.798
180.0	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741

Vert. Angles	Horizontal Angles									
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975
2.5	967.416	962.200	956.933	953.185	947.259	942.904	941.486	936.928	933.180	930.597
5.0	986.053	978.254	970.505	963.769	955.059	947.411	943.107	935.712	928.571	923.152
7.5	1002.007	991.726	981.090	971.316	959.769	948.981	941.739	931.306	921.025	912.973
10.0	1014.617	1001.601	988.231	975.874	961.238	947.614	937.181	924.064	911.049	899.704
12.5	1023.328	1008.084	991.877	976.937	959.414	942.550	929.230	913.682	897.527	883.700
15.0	1027.835	1010.717	991.675	974.000	954.097	934.447	917.987	900.109	881.523	865.367
17.5	1027.886	1008.691	987.624	967.517	945.335	923.152	904.110	883.852	862.734	844.957
20.0	1022.062	1002.209	979.571	957.287	933.180	908.668	887.246	864.810	841.716	822.015
22.5	1011.274	990.966	967.112	943.562	917.632	890.841	867.038	843.184	818.520	797.098
25.0	995.017	974.861	949.690	925.533	898.742	869.773	844.046	819.128	793.198	770.560
27.5	973.797	954.198	928.774	903.401	876.306	846.375	818.824	792.793	765.445	741.895
30.0	947.664	928.825	903.604	877.370	850.326	819.736	790.869	763.773	736.223	712.217
32.5	916.873	899.806	874.939	847.793	820.597	790.463	760.785	733.184	705.431	680.665
35.0	881.371	866.127	842.577	815.077	787.931	758.709	728.626	700.924	672.714	648.506
37.5	842.729	829.055	806.163	779.980	752.632	723.967	694.441	666.637	639.289	615.385
40.0	800.288	788.691	767.572	741.692	715.053	687.553	658.179	631.490	604.749	581.503
42.5	755.417	745.035	726.600	701.784	675.145	648.962	621.107	595.278	569.298	546.862
45.0	708.672	698.999	683.603	660.154	633.971	609.155	583.073	558.004	533.340	512.272
47.5	659.648	651.848	638.174	616.853	592.392	568.791	544.583	520.679	497.129	477.175
50.0	610.118	603.736	591.987	572.894	550.154	527.718	505.434	482.645	461.019	442.382
52.5	560.131	554.864	544.431	528.478	507.410	486.595	466.286	445.117	425.365	407.944
55.0	510.448	505.485	496.977	483.151	464.666	444.965	426.226	407.893	390.167	374.012
57.5	460.665	457.069	449.523	438.128	421.820	404.398	387.635	371.378	355.324	340.738
60.0	412.451	409.716	403.183	393.408	379.633	364.288	349.500	335.066	320.784	307.464
62.5	364.997	363.022	357.755	349.094	337.800	324.937	312.372	299.311	286.391	275.209
65.0	319.619	318.353	313.020	305.828	297.006	286.133	275.482	265.297	253.300	243.596
67.5	275.452	275.052	270.873	264.892	257.447	248.782	240.021	231.603	221.429	213.027
70.0	233.629	233.351	230.955	225.420	219.722	212.733	205.881	198.750	190.110	183.055
72.5	194.886	194.552	192.698	188.414	183.608	178.735	173.053	167.457	159.926	153.864
75.0	158.108	158.482	156.745	153.874	149.524	145.999	141.811	137.941	131.276	126.151
77.5	123.933	124.298	123.497	121.183	118.402	115.217	112.750	109.874	104.617	100.332
80.0	92.837	93.110	92.979	91.409	89.424	87.357	85.640	83.797	79.446	75.861

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CANDELA TABULATION - (Cont.)

82.5	65.195	65.418	64.835	64.056	63.195	61.913	60.688	59.796	56.464	53.309
85.0	40.090	40.450	40.526	39.999	39.538	38.915	38.576	38.100	35.755	32.726
87.5	18.698	18.971	18.895	18.865	18.835	18.835	18.531	18.698	16.677	14.211
90.0	1.590	1.631	1.742	1.828	1.808	1.823	1.884	1.879	1.793	1.236
92.5	0.988	1.008	1.018	1.013	0.997	0.993	0.993	0.993	0.967	0.937
95.0	0.871	0.876	0.881	0.876	0.871	0.871	0.871	0.876	0.856	0.820
97.5	0.810	0.816	0.820	0.816	0.810	0.810	0.820	0.831	0.820	0.790
100.0	0.770	0.785	0.785	0.780	0.785	0.795	0.800	0.816	0.810	0.800
102.5	0.760	0.765	0.770	0.770	0.775	0.780	0.785	0.805	0.816	0.800
105.0	0.744	0.760	0.760	0.765	0.760	0.775	0.795	0.810	0.816	0.810
107.5	0.744	0.749	0.749	0.755	0.770	0.775	0.795	0.816	0.831	0.820
110.0	0.740	0.749	0.755	0.749	0.760	0.770	0.795	0.816	0.841	0.836
112.5	0.744	0.740	0.755	0.749	0.765	0.780	0.805	0.825	0.851	0.856
115.0	0.734	0.740	0.749	0.749	0.760	0.775	0.800	0.820	0.846	0.846
117.5	0.760	0.770	0.775	0.775	0.795	0.820	0.841	0.866	0.856	0.820
120.0	0.836	0.846	0.861	0.866	0.881	0.901	0.937	0.957	0.886	0.790
122.5	0.957	0.967	0.993	0.993	1.008	1.038	1.069	1.104	0.952	0.775
125.0	1.109	1.119	1.145	1.155	1.170	1.201	1.241	1.271	1.043	0.780
127.5	1.281	1.302	1.327	1.337	1.362	1.408	1.443	1.489	1.175	0.816
130.0	1.469	1.494	1.519	1.539	1.570	1.611	1.661	1.712	1.312	0.856
132.5	1.661	1.691	1.722	1.752	1.793	1.839	1.894	1.945	1.464	0.927
135.0	1.879	1.909	1.945	1.980	2.031	2.081	2.142	2.198	1.641	1.018
137.5	2.102	2.137	2.183	2.213	2.264	2.325	2.380	2.451	1.828	1.155
140.0	2.314	2.355	2.405	2.446	2.502	2.548	2.613	2.689	2.026	1.302
142.5	2.527	2.573	2.618	2.664	2.725	2.781	2.846	2.917	2.218	1.464
145.0	2.720	2.770	2.826	2.866	2.927	2.988	3.054	3.119	2.401	1.611
147.5	2.902	2.953	3.018	3.059	3.115	3.171	3.241	3.312	2.578	1.783
150.0	3.079	3.125	3.186	3.231	3.287	3.343	3.413	3.474	2.745	1.945
152.5	3.226	3.282	3.343	3.383	3.434	3.484	3.545	3.606	2.907	2.132
155.0	3.378	3.419	3.469	3.504	3.545	3.591	3.646	3.702	3.044	2.294
157.5	3.495	3.530	3.571	3.596	3.631	3.677	3.728	3.783	3.171	2.461
160.0	3.596	3.621	3.646	3.672	3.707	3.748	3.798	3.849	3.287	2.629
162.5	3.677	3.692	3.717	3.732	3.763	3.798	3.844	3.880	3.383	2.786
165.0	3.728	3.743	3.768	3.773	3.793	3.829	3.874	3.905	3.484	2.947
167.5	3.788	3.798	3.819	3.824	3.854	3.874	3.905	3.935	3.586	3.119
170.0	3.834	3.844	3.864	3.864	3.885	3.900	3.930	3.950	3.661	3.277
172.5	3.849	3.854	3.864	3.864	3.885	3.895	3.925	3.940	3.728	3.408
175.0	3.844	3.844	3.854	3.844	3.859	3.869	3.889	3.900	3.773	3.545
177.5	3.793	3.798	3.813	3.804	3.809	3.819	3.824	3.834	3.804	3.661
180.0	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741

**Vert.
Angles**

Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975
2.5	929.534	924.925	923.659	923.912	922.393	922.494	922.444	919.152	915.657	914.239
5.0	919.101	911.757	907.858	905.781	901.983	900.059	897.932	892.867	888.005	884.966
7.5	906.237	896.564	890.183	885.625	880.054	876.306	872.305	865.620	859.846	855.289
10.0	890.386	878.788	870.178	863.696	856.605	851.389	846.071	838.373	831.486	827.181
12.5	871.951	858.580	848.401	840.298	831.536	825.003	819.584	810.721	804.290	799.022
15.0	851.439	836.601	825.358	815.684	805.758	799.124	792.843	783.930	777.295	771.471
17.5	829.308	813.000	800.390	789.400	779.777	772.991	765.850	756.886	750.150	744.984
20.0	805.150	787.830	774.307	763.064	753.340	746.251	738.451	729.943	723.511	718.193
22.5	779.271	760.735	747.213	735.666	725.992	718.851	711.053	702.949	697.226	692.668
25.0	751.315	732.931	719.561	707.760	698.341	691.351	683.907	676.361	671.499	667.802
27.5	722.498	703.911	690.845	679.400	670.081	663.396	656.862	650.076	645.923	642.885

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

30.0	692.365	674.132	661.775	650.026	641.771	635.743	629.210	624.095	620.955	618.626
32.5	661.117	644.150	631.439	620.601	613.511	608.092	602.217	598.216	595.886	594.468
35.0	629.514	613.207	600.697	590.720	584.744	580.135	575.274	572.387	571.070	570.007
37.5	596.646	581.554	569.956	561.042	555.826	551.673	548.179	545.799	545.697	545.596
40.0	563.372	549.546	538.759	530.960	526.655	523.211	520.932	519.565	520.172	520.831
42.5	530.504	517.336	507.410	500.877	497.382	495.052	493.128	492.976	494.040	495.205
45.0	497.483	485.278	475.757	470.439	468.160	466.438	465.071	466.135	467.603	469.477
47.5	464.109	453.017	444.458	440.457	438.837	437.723	437.115	438.735	440.761	442.939
50.0	430.835	420.453	413.211	410.223	409.361	408.551	408.804	410.628	412.907	416.047
52.5	397.004	388.496	382.570	380.089	379.430	379.329	380.241	381.963	385.001	388.597
55.0	364.490	356.793	351.981	350.259	349.854	349.702	351.424	353.450	356.741	360.439
57.5	332.381	325.089	321.594	320.480	320.024	320.429	322.405	324.683	328.026	332.432
60.0	299.862	293.223	290.564	289.865	289.379	290.179	292.443	294.752	298.571	303.220
62.5	268.635	263.140	260.704	260.132	260.061	261.302	263.125	266.174	270.053	274.753
65.0	238.193	233.533	231.330	230.712	231.026	232.404	234.566	237.914	241.991	245.825
67.5	208.221	204.114	202.427	202.012	202.351	203.937	206.580	209.446	213.392	217.109
70.0	178.959	175.889	174.284	173.772	174.648	176.411	178.487	181.850	185.233	189.128
72.5	150.780	148.434	146.647	146.440	147.457	149.189	151.630	154.553	157.951	161.309
75.0	123.639	121.401	120.580	120.413	121.355	123.138	125.452	128.060	131.210	134.057
77.5	98.271	96.645	95.886	95.790	96.959	98.560	100.363	102.986	105.088	107.220
80.0	74.488	72.969	72.493	72.873	73.521	74.883	76.691	78.033	80.049	82.029
82.5	52.022	51.217	51.055	51.399	52.078	53.005	54.119	55.426	56.672	58.216
85.0	32.079	31.572	31.476	31.587	31.982	32.372	33.259	34.033	34.950	35.598
87.5	13.765	13.593	13.543	13.618	13.735	13.892	13.993	14.059	14.100	14.408
90.0	1.261	1.271	1.281	1.297	1.302	1.302	1.276	1.256	1.221	1.190
92.5	0.947	0.952	0.962	0.972	0.982	0.982	0.952	0.937	0.907	0.876
95.0	0.846	0.841	0.851	0.866	0.871	0.866	0.856	0.825	0.805	0.785
97.5	0.810	0.810	0.820	0.831	0.836	0.841	0.820	0.805	0.780	0.760
100.0	0.816	0.820	0.836	0.836	0.846	0.851	0.831	0.810	0.790	0.775
102.5	0.820	0.820	0.831	0.846	0.851	0.846	0.831	0.816	0.790	0.775
105.0	0.831	0.831	0.846	0.846	0.851	0.851	0.846	0.820	0.810	0.785
107.5	0.846	0.841	0.851	0.856	0.856	0.866	0.851	0.836	0.816	0.795
110.0	0.851	0.856	0.866	0.866	0.871	0.881	0.866	0.846	0.836	0.810
112.5	0.876	0.876	0.892	0.896	0.896	0.901	0.886	0.871	0.861	0.836
115.0	0.871	0.876	0.881	0.892	0.896	0.901	0.886	0.876	0.856	0.836
117.5	0.841	0.846	0.856	0.861	0.861	0.871	0.861	0.846	0.836	0.820
120.0	0.810	0.810	0.831	0.836	0.836	0.846	0.831	0.825	0.810	0.795
122.5	0.795	0.800	0.820	0.831	0.831	0.851	0.836	0.831	0.816	0.800
125.0	0.810	0.816	0.831	0.846	0.851	0.861	0.856	0.851	0.846	0.831
127.5	0.836	0.841	0.851	0.866	0.876	0.892	0.892	0.886	0.876	0.866
130.0	0.876	0.886	0.907	0.917	0.937	0.957	0.957	0.957	0.957	0.947
132.5	0.947	0.952	0.977	1.003	1.008	1.033	1.033	1.033	1.033	1.028
135.0	1.049	1.049	1.073	1.094	1.104	1.129	1.125	1.125	1.129	1.129
137.5	1.180	1.190	1.205	1.221	1.236	1.246	1.251	1.256	1.261	1.266
140.0	1.322	1.337	1.347	1.362	1.373	1.388	1.388	1.408	1.408	1.408
142.5	1.479	1.489	1.494	1.509	1.524	1.539	1.550	1.555	1.560	1.570
145.0	1.636	1.636	1.651	1.661	1.676	1.687	1.697	1.702	1.712	1.717
147.5	1.803	1.798	1.808	1.813	1.843	1.833	1.843	1.864	1.869	1.874
150.0	1.965	1.960	1.975	1.980	1.995	2.000	2.011	2.006	2.020	2.026
152.5	2.142	2.137	2.142	2.152	2.163	2.168	2.172	2.178	2.178	2.183
155.0	2.304	2.294	2.304	2.314	2.320	2.314	2.320	2.325	2.325	2.329
157.5	2.466	2.461	2.466	2.472	2.481	2.477	2.477	2.472	2.466	2.477
160.0	2.633	2.629	2.623	2.629	2.644	2.638	2.638	2.633	2.633	2.623
162.5	2.786	2.781	2.770	2.770	2.786	2.781	2.775	2.770	2.765	2.765
165.0	2.958	2.942	2.932	2.927	2.932	2.922	2.917	2.917	2.912	2.902
167.5	3.125	3.110	3.104	3.094	3.094	3.074	3.059	3.059	3.044	3.044

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CANDELA TABULATION - (Cont.)

170.0	3.272	3.256	3.256	3.247	3.247	3.231	3.206	3.191	3.175	3.160
172.5	3.408	3.393	3.383	3.383	3.388	3.373	3.348	3.338	3.312	3.292
175.0	3.550	3.535	3.530	3.525	3.535	3.515	3.504	3.500	3.484	3.459
177.5	3.672	3.652	3.646	3.641	3.652	3.641	3.636	3.631	3.626	3.606
180.0	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741

Vert. Angles	Horizontal Angles									
	150	155	160	165	170	175	180	185	190	195
0.0	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975
2.5	911.606	909.327	909.124	907.756	904.718	902.642	903.199	902.642	904.718	907.756
5.0	881.218	877.927	877.167	874.787	871.799	869.469	869.469	869.469	871.799	874.787
7.5	851.085	846.679	845.767	842.982	839.690	837.259	837.563	837.259	839.690	842.982
10.0	821.812	817.153	815.684	813.355	809.962	807.683	808.088	807.683	809.962	813.355
12.5	793.654	789.197	787.678	784.994	781.297	779.271	779.625	779.271	781.297	784.994
15.0	766.255	761.748	760.127	757.544	753.493	751.720	752.378	751.720	753.493	757.544
17.5	739.363	735.413	733.842	730.854	727.765	725.841	726.347	725.841	727.765	730.854
20.0	713.382	709.786	708.571	706.140	703.304	701.480	702.139	701.480	703.304	706.140
22.5	687.958	685.426	684.565	682.590	680.108	678.639	679.045	678.639	680.108	682.590
25.0	663.396	661.978	661.471	659.952	657.876	656.609	656.862	656.609	657.876	659.952
27.5	639.542	638.782	639.188	637.769	635.895	635.035	635.592	635.035	635.895	637.769
30.0	616.195	616.296	617.157	615.790	614.827	614.118	614.422	614.118	614.827	615.790
32.5	592.898	594.013	595.278	594.266	594.013	593.455	593.759	593.455	594.013	594.266
35.0	569.399	571.273	572.894	572.894	572.944	572.285	572.995	572.285	572.944	572.894
37.5	546.001	548.280	550.255	550.762	551.420	551.015	551.825	551.015	551.420	550.762
40.0	521.996	524.933	527.162	527.972	528.681	528.934	529.947	528.934	528.681	527.972
42.5	497.635	501.079	503.460	504.523	505.637	506.194	507.157	506.194	505.637	504.523
45.0	472.262	476.364	478.745	480.112	481.479	482.138	482.847	482.138	481.479	480.112
47.5	446.585	450.789	452.866	454.942	456.461	457.221	458.234	457.221	456.461	454.942
50.0	420.098	423.795	426.125	428.759	430.480	431.290	432.607	431.290	430.480	428.759
52.5	393.105	396.599	399.131	402.068	403.639	404.804	406.171	404.804	403.639	402.068
55.0	365.048	368.694	371.732	374.619	376.240	377.506	379.025	377.506	376.240	374.619
57.5	336.838	340.434	344.030	346.765	348.233	349.500	351.171	349.500	348.233	346.765
60.0	307.667	311.921	315.517	318.049	319.771	321.037	321.999	321.037	319.771	318.049
62.5	278.531	282.031	286.006	288.301	290.569	291.755	292.099	291.755	290.569	288.301
65.0	249.658	253.599	256.870	259.063	261.423	262.684	262.958	262.684	261.423	259.063
67.5	220.938	225.000	227.800	230.150	231.923	233.604	233.401	233.604	231.923	230.150
70.0	192.810	196.005	198.072	200.938	202.422	203.982	203.268	203.982	202.422	200.938
72.5	164.524	166.981	169.584	171.691	173.585	173.717	173.965	173.717	173.585	171.691
75.0	136.710	139.167	141.486	143.289	144.484	144.074	145.289	144.074	144.484	143.289
77.5	109.555	111.682	113.439	115.404	115.688	115.480	116.797	115.480	115.688	115.404
80.0	83.964	85.620	87.150	87.965	87.696	88.304	89.672	88.304	87.696	87.965
82.5	59.508	60.870	61.194	61.458	61.711	62.460	63.448	62.460	61.711	61.458
85.0	36.044	36.439	36.632	36.955	37.431	38.034	38.075	38.034	37.431	36.955
87.5	14.540	14.920	14.890	14.956	15.188	15.289	15.285	15.289	15.188	14.956
90.0	1.160	1.145	1.125	1.119	1.104	1.094	1.094	1.094	1.104	1.119
92.5	0.856	0.841	0.825	0.816	0.810	0.795	0.790	0.795	0.810	0.816
95.0	0.760	0.749	0.740	0.724	0.724	0.714	0.709	0.714	0.724	0.724
97.5	0.740	0.719	0.719	0.709	0.704	0.689	0.689	0.689	0.704	0.709
100.0	0.749	0.740	0.719	0.719	0.714	0.699	0.699	0.699	0.714	0.719
102.5	0.760	0.744	0.734	0.719	0.719	0.709	0.709	0.709	0.719	0.719
105.0	0.770	0.755	0.740	0.734	0.724	0.719	0.719	0.719	0.724	0.734
107.5	0.780	0.770	0.755	0.749	0.744	0.729	0.729	0.729	0.744	0.749
110.0	0.800	0.780	0.765	0.755	0.744	0.734	0.729	0.734	0.744	0.755
112.5	0.825	0.805	0.785	0.780	0.770	0.760	0.760	0.760	0.770	0.780
115.0	0.825	0.810	0.795	0.780	0.780	0.770	0.770	0.770	0.780	0.780

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CANDELA TABULATION - (Cont.)

117.5	0.805	0.790	0.775	0.770	0.765	0.749	0.749	0.749	0.765	0.770
120.0	0.785	0.770	0.760	0.755	0.755	0.744	0.740	0.744	0.755	0.755
122.5	0.790	0.780	0.770	0.760	0.755	0.744	0.749	0.744	0.755	0.760
125.0	0.820	0.810	0.795	0.790	0.790	0.775	0.770	0.775	0.790	0.790
127.5	0.866	0.866	0.861	0.861	0.866	0.851	0.851	0.851	0.866	0.861
130.0	0.952	0.942	0.942	0.937	0.937	0.932	0.932	0.932	0.937	0.937
132.5	1.033	1.028	1.018	1.023	1.023	1.013	1.003	1.013	1.023	1.023
135.0	1.129	1.129	1.129	1.134	1.140	1.129	1.134	1.129	1.140	1.134
137.5	1.266	1.271	1.266	1.271	1.276	1.266	1.266	1.266	1.276	1.271
140.0	1.413	1.423	1.418	1.428	1.433	1.428	1.418	1.428	1.433	1.428
142.5	1.580	1.580	1.585	1.590	1.595	1.590	1.590	1.590	1.595	1.590
145.0	1.722	1.732	1.742	1.742	1.752	1.747	1.742	1.747	1.752	1.742
147.5	1.879	1.889	1.899	1.899	1.904	1.904	1.915	1.904	1.904	1.899
150.0	2.036	2.046	2.051	2.061	2.071	2.061	2.056	2.061	2.071	2.061
152.5	2.193	2.203	2.203	2.218	2.228	2.218	2.208	2.218	2.228	2.218
155.0	2.340	2.350	2.350	2.355	2.370	2.355	2.360	2.355	2.370	2.355
157.5	2.477	2.492	2.497	2.502	2.507	2.512	2.512	2.512	2.507	2.502
160.0	2.618	2.629	2.633	2.644	2.659	2.664	2.654	2.664	2.659	2.644
162.5	2.765	2.760	2.760	2.765	2.775	2.770	2.775	2.770	2.775	2.765
165.0	2.907	2.897	2.892	2.892	2.902	2.902	2.897	2.902	2.902	2.892
167.5	3.039	3.044	3.039	3.034	3.044	3.029	3.018	3.029	3.044	3.034
170.0	3.165	3.160	3.155	3.150	3.150	3.135	3.130	3.135	3.150	3.150
172.5	3.282	3.277	3.277	3.282	3.272	3.247	3.231	3.247	3.272	3.282
175.0	3.444	3.428	3.428	3.428	3.428	3.403	3.393	3.403	3.428	3.428
177.5	3.596	3.576	3.555	3.550	3.571	3.571	3.576	3.571	3.571	3.550
180.0	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741

Vert. Horizontal Angles Angles

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0.0	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975
2.5	909.124	909.327	911.606	914.239	915.657	919.152	922.444	922.494	922.393	923.912
5.0	877.167	877.927	881.218	884.966	888.005	892.867	897.932	900.059	901.983	905.781
7.5	845.767	846.679	851.085	855.289	859.846	865.620	872.305	876.306	880.054	885.625
10.0	815.684	817.153	821.812	827.181	831.486	838.373	846.071	851.389	856.605	863.696
12.5	787.678	789.197	793.654	799.022	804.290	810.721	819.584	825.003	831.536	840.298
15.0	760.127	761.748	766.255	771.471	777.295	783.930	792.843	799.124	805.758	815.684
17.5	733.842	735.413	739.363	744.984	750.150	756.886	765.850	772.991	779.777	789.400
20.0	708.571	709.786	713.382	718.193	723.511	729.943	738.451	746.251	753.340	763.064
22.5	684.565	685.426	687.958	692.668	697.226	702.949	711.053	718.851	725.992	735.666
25.0	661.471	661.978	663.396	667.802	671.499	676.361	683.907	691.351	698.341	707.760
27.5	639.188	638.782	639.542	642.885	645.923	650.076	656.862	663.396	670.081	679.400
30.0	617.157	616.296	616.195	618.626	620.955	624.095	629.210	635.743	641.771	650.026
32.5	595.278	594.013	592.898	594.468	595.886	598.216	602.217	608.092	613.511	620.601
35.0	572.894	571.273	569.399	570.007	571.070	572.387	575.274	580.135	584.744	590.720
37.5	550.255	548.280	546.001	545.596	545.697	545.799	548.179	551.673	555.826	561.042
40.0	527.162	524.933	521.996	520.831	520.172	519.565	520.932	523.211	526.655	530.960
42.5	503.460	501.079	497.635	495.205	494.040	492.976	493.128	495.052	497.382	500.877
45.0	478.745	476.364	472.262	469.477	467.603	466.135	465.071	466.438	468.160	470.439
47.5	452.866	450.789	446.585	442.939	440.761	438.735	437.115	437.723	438.837	440.457
50.0	426.125	423.795	420.098	416.047	412.907	410.628	408.804	408.551	409.361	410.223
52.5	399.131	396.599	393.105	388.597	385.001	381.963	380.241	379.329	379.430	380.089
55.0	371.732	368.694	365.048	360.439	356.741	353.450	351.424	349.702	349.854	350.259
57.5	344.030	340.434	336.838	332.432	328.026	324.683	322.405	320.429	320.024	320.480
60.0	315.517	311.921	307.667	303.220	298.571	294.752	292.443	290.179	289.379	289.865
62.5	286.006	282.031	278.531	274.753	270.053	266.174	263.125	261.302	260.061	260.132

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CANDELA TABULATION - (Cont.)

65.0	256.870	253.599	249.658	245.825	241.991	237.914	234.566	232.404	231.026	230.712
67.5	227.800	225.000	220.938	217.109	213.392	209.446	206.580	203.937	202.351	202.012
70.0	198.072	196.005	192.810	189.128	185.233	181.850	178.487	176.411	174.648	173.772
72.5	169.584	166.981	164.524	161.309	157.951	154.553	151.630	149.189	147.457	146.440
75.0	141.486	139.167	136.710	134.057	131.210	128.060	125.452	123.138	121.355	120.413
77.5	113.439	111.682	109.555	107.220	105.088	102.986	100.363	98.560	96.959	95.790
80.0	87.150	85.620	83.964	82.029	80.049	78.033	76.691	74.883	73.521	72.873
82.5	61.194	60.870	59.508	58.216	56.672	55.426	54.119	53.005	52.078	51.399
85.0	36.632	36.439	36.044	35.598	34.950	34.033	33.259	32.372	31.982	31.587
87.5	14.890	14.920	14.540	14.408	14.100	14.059	13.993	13.892	13.735	13.618
90.0	1.125	1.145	1.160	1.190	1.221	1.256	1.276	1.302	1.302	1.297
92.5	0.825	0.841	0.856	0.876	0.907	0.937	0.952	0.982	0.982	0.972
95.0	0.740	0.749	0.760	0.785	0.805	0.825	0.856	0.866	0.871	0.866
97.5	0.719	0.719	0.740	0.760	0.780	0.805	0.820	0.841	0.836	0.831
100.0	0.719	0.740	0.749	0.775	0.790	0.810	0.831	0.851	0.846	0.836
102.5	0.734	0.744	0.760	0.775	0.790	0.816	0.831	0.846	0.851	0.846
105.0	0.740	0.755	0.770	0.785	0.810	0.820	0.846	0.851	0.851	0.846
107.5	0.755	0.770	0.780	0.795	0.816	0.836	0.851	0.866	0.856	0.856
110.0	0.765	0.780	0.800	0.810	0.836	0.846	0.866	0.881	0.871	0.866
112.5	0.785	0.805	0.825	0.836	0.861	0.871	0.886	0.901	0.896	0.896
115.0	0.795	0.810	0.825	0.836	0.856	0.876	0.886	0.901	0.896	0.892
117.5	0.775	0.790	0.805	0.820	0.836	0.846	0.861	0.871	0.861	0.861
120.0	0.760	0.770	0.785	0.795	0.810	0.825	0.831	0.846	0.836	0.836
122.5	0.770	0.780	0.790	0.800	0.816	0.831	0.836	0.851	0.831	0.831
125.0	0.795	0.810	0.820	0.831	0.846	0.851	0.856	0.861	0.851	0.846
127.5	0.861	0.866	0.866	0.866	0.876	0.886	0.892	0.892	0.876	0.866
130.0	0.942	0.942	0.952	0.947	0.957	0.957	0.957	0.957	0.937	0.917
132.5	1.018	1.028	1.033	1.028	1.033	1.033	1.033	1.033	1.008	1.003
135.0	1.129	1.129	1.129	1.129	1.129	1.125	1.125	1.129	1.104	1.094
137.5	1.266	1.271	1.266	1.266	1.261	1.256	1.251	1.246	1.236	1.221
140.0	1.418	1.423	1.413	1.408	1.408	1.408	1.388	1.388	1.373	1.362
142.5	1.585	1.580	1.580	1.570	1.560	1.555	1.550	1.539	1.524	1.509
145.0	1.742	1.732	1.722	1.717	1.712	1.702	1.697	1.687	1.676	1.661
147.5	1.899	1.889	1.879	1.874	1.869	1.864	1.843	1.833	1.843	1.813
150.0	2.051	2.046	2.036	2.026	2.020	2.006	2.011	2.000	1.995	1.980
152.5	2.203	2.203	2.193	2.183	2.178	2.178	2.172	2.168	2.163	2.152
155.0	2.350	2.350	2.340	2.329	2.325	2.325	2.320	2.314	2.320	2.314
157.5	2.497	2.492	2.477	2.477	2.466	2.472	2.477	2.477	2.481	2.472
160.0	2.633	2.629	2.618	2.623	2.633	2.633	2.638	2.638	2.644	2.629
162.5	2.760	2.760	2.765	2.765	2.765	2.770	2.775	2.781	2.786	2.770
165.0	2.892	2.897	2.907	2.902	2.912	2.917	2.917	2.922	2.932	2.927
167.5	3.039	3.044	3.039	3.044	3.044	3.059	3.059	3.074	3.094	3.094
170.0	3.155	3.160	3.165	3.160	3.175	3.191	3.206	3.231	3.247	3.247
172.5	3.277	3.277	3.282	3.292	3.312	3.338	3.348	3.373	3.388	3.383
175.0	3.428	3.428	3.444	3.459	3.484	3.500	3.504	3.515	3.535	3.525
177.5	3.555	3.576	3.596	3.606	3.626	3.631	3.636	3.641	3.652	3.641
180.0	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741

Vert. Horizontal Angles

Angles	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0.0	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975
2.5	923.659	924.925	929.534	930.597	933.180	936.928	941.486	942.904	947.259	953.185
5.0	907.858	911.757	919.101	923.152	928.571	935.712	943.107	947.411	955.059	963.769
7.5	890.183	896.564	906.237	912.973	921.025	931.306	941.739	948.981	959.769	971.316
10.0	870.178	878.788	890.386	899.704	911.049	924.064	937.181	947.614	961.238	975.874

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

12.5	848.401	858.580	871.951	883.700	897.527	913.682	929.230	942.550	959.414	976.937
15.0	825.358	836.601	851.439	865.367	881.523	900.109	917.987	934.447	954.097	974.000
17.5	800.390	813.000	829.308	844.957	862.734	883.852	904.110	923.152	945.335	967.517
20.0	774.307	787.830	805.150	822.015	841.716	864.810	887.246	908.668	933.180	957.287
22.5	747.213	760.735	779.271	797.098	818.520	843.184	867.038	890.841	917.632	943.562
25.0	719.561	732.931	751.315	770.560	793.198	819.128	844.046	869.773	898.742	925.533
27.5	690.845	703.911	722.498	741.895	765.445	792.793	818.824	846.375	876.306	903.401
30.0	661.775	674.132	692.365	712.217	736.223	763.773	790.869	819.736	850.326	877.370
32.5	631.439	644.150	661.117	680.665	705.431	733.184	760.785	790.463	820.597	847.793
35.0	600.697	613.207	629.514	648.506	672.714	700.924	728.626	758.709	787.931	815.077
37.5	569.956	581.554	596.646	615.385	639.289	666.637	694.441	723.967	752.632	779.980
40.0	538.759	549.546	563.372	581.503	604.749	631.490	658.179	687.553	715.053	741.692
42.5	507.410	517.336	530.504	546.862	569.298	595.278	621.107	648.962	675.145	701.784
45.0	475.757	485.278	497.483	512.272	533.340	558.004	583.073	609.155	633.971	660.154
47.5	444.458	453.017	464.109	477.175	497.129	520.679	544.583	568.791	592.392	616.853
50.0	413.211	420.453	430.835	442.382	461.019	482.645	505.434	527.718	550.154	572.894
52.5	382.570	388.496	397.004	407.944	425.365	445.117	466.286	486.595	507.410	528.478
55.0	351.981	356.793	364.490	374.012	390.167	407.893	426.226	444.965	464.666	483.151
57.5	321.594	325.089	332.381	340.738	355.324	371.378	387.635	404.398	421.820	438.128
60.0	290.564	293.223	299.862	307.464	320.784	335.066	349.500	364.288	379.633	393.408
62.5	260.704	263.140	268.635	275.209	286.391	299.311	312.372	324.937	337.800	349.094
65.0	231.330	233.533	238.193	243.596	253.300	265.297	275.482	286.133	297.006	305.828
67.5	202.427	204.114	208.221	213.027	221.429	231.603	240.021	248.782	257.447	264.892
70.0	174.284	175.889	178.959	183.055	190.110	198.750	205.881	212.733	219.722	225.420
72.5	146.647	148.434	150.780	153.864	159.926	167.457	173.053	178.735	183.608	188.414
75.0	120.580	121.401	123.639	126.151	131.276	137.941	141.811	145.999	149.524	153.874
77.5	95.886	96.645	98.271	100.332	104.617	109.874	112.750	115.217	118.402	121.183
80.0	72.493	72.969	74.488	75.861	79.446	83.797	85.640	87.357	89.424	91.409
82.5	51.055	51.217	52.022	53.309	56.464	59.796	60.688	61.913	63.195	64.056
85.0	31.476	31.572	32.079	32.726	35.755	38.100	38.576	38.915	39.538	39.999
87.5	13.543	13.593	13.765	14.211	16.677	18.698	18.531	18.835	18.835	18.865
90.0	1.281	1.271	1.261	1.236	1.793	1.879	1.884	1.823	1.808	1.828
92.5	0.962	0.952	0.947	0.937	0.967	0.993	0.993	0.993	0.997	1.013
95.0	0.851	0.841	0.846	0.820	0.856	0.876	0.871	0.871	0.871	0.876
97.5	0.820	0.810	0.810	0.790	0.820	0.831	0.820	0.810	0.810	0.816
100.0	0.836	0.820	0.816	0.800	0.810	0.816	0.800	0.795	0.785	0.780
102.5	0.831	0.820	0.820	0.800	0.816	0.805	0.785	0.780	0.775	0.770
105.0	0.846	0.831	0.831	0.810	0.816	0.810	0.795	0.775	0.760	0.765
107.5	0.851	0.841	0.846	0.820	0.831	0.816	0.795	0.775	0.770	0.755
110.0	0.866	0.856	0.851	0.836	0.841	0.816	0.795	0.770	0.760	0.749
112.5	0.892	0.876	0.876	0.856	0.851	0.825	0.805	0.780	0.765	0.749
115.0	0.881	0.876	0.871	0.846	0.846	0.820	0.800	0.775	0.760	0.749
117.5	0.856	0.846	0.841	0.820	0.856	0.866	0.841	0.820	0.795	0.775
120.0	0.831	0.810	0.810	0.790	0.886	0.957	0.937	0.901	0.881	0.866
122.5	0.820	0.800	0.795	0.775	0.952	1.104	1.069	1.038	1.008	0.993
125.0	0.831	0.816	0.810	0.780	1.043	1.271	1.241	1.201	1.170	1.155
127.5	0.851	0.841	0.836	0.816	1.175	1.489	1.443	1.408	1.362	1.337
130.0	0.907	0.886	0.876	0.856	1.312	1.712	1.661	1.611	1.570	1.539
132.5	0.977	0.952	0.947	0.927	1.464	1.945	1.894	1.839	1.793	1.752
135.0	1.073	1.049	1.049	1.018	1.641	2.198	2.142	2.081	2.031	1.980
137.5	1.205	1.190	1.180	1.155	1.828	2.451	2.380	2.325	2.264	2.213
140.0	1.347	1.337	1.322	1.302	2.026	2.689	2.613	2.548	2.502	2.446
142.5	1.494	1.489	1.479	1.464	2.218	2.917	2.846	2.781	2.725	2.664
145.0	1.651	1.636	1.636	1.611	2.401	3.119	3.054	2.988	2.927	2.866
147.5	1.808	1.798	1.803	1.783	2.578	3.312	3.241	3.171	3.115	3.059
150.0	1.975	1.960	1.965	1.945	2.745	3.474	3.413	3.343	3.287	3.231

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

152.5	2.142	2.137	2.142	2.132	2.907	3.606	3.545	3.484	3.434	3.383
155.0	2.304	2.294	2.304	2.294	3.044	3.702	3.646	3.591	3.545	3.504
157.5	2.466	2.461	2.466	2.461	3.171	3.783	3.728	3.677	3.631	3.596
160.0	2.623	2.629	2.633	2.629	3.287	3.849	3.798	3.748	3.707	3.672
162.5	2.770	2.781	2.786	2.786	3.383	3.880	3.844	3.798	3.763	3.732
165.0	2.932	2.942	2.958	2.947	3.484	3.905	3.874	3.829	3.793	3.773
167.5	3.104	3.110	3.125	3.119	3.586	3.935	3.905	3.874	3.854	3.824
170.0	3.256	3.256	3.272	3.277	3.661	3.950	3.930	3.900	3.885	3.864
172.5	3.383	3.393	3.408	3.408	3.728	3.940	3.925	3.895	3.885	3.864
175.0	3.530	3.535	3.550	3.545	3.773	3.900	3.889	3.869	3.859	3.844
177.5	3.646	3.652	3.672	3.661	3.804	3.834	3.824	3.819	3.809	3.804
180.0	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741

Vert. Angles	Horizontal Angles									
	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0.0	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975	939.975
2.5	956.933	962.200	967.416	967.973	968.328	970.303	970.505	970.961	973.139	973.595
5.0	970.505	978.254	986.053	988.890	991.574	995.676	997.702	999.879	1003.323	1004.387
7.5	981.090	991.726	1002.007	1007.527	1012.186	1018.263	1022.467	1026.113	1030.823	1032.798
10.0	988.231	1001.601	1014.617	1022.265	1029.304	1037.508	1043.282	1048.599	1054.728	1057.007
12.5	991.877	1008.084	1023.328	1033.052	1042.370	1052.601	1059.742	1066.629	1073.061	1076.556
15.0	991.675	1010.717	1027.835	1039.787	1050.777	1061.970	1069.820	1077.568	1084.709	1088.102
17.5	987.624	1008.691	1027.886	1040.598	1052.398	1064.755	1073.314	1081.772	1088.558	1092.205
20.0	979.571	1002.209	1022.062	1035.482	1048.397	1061.109	1069.769	1078.379	1084.811	1088.102
22.5	967.112	990.966	1011.274	1024.848	1038.318	1050.575	1059.336	1067.642	1072.859	1075.644
25.0	949.690	974.861	995.017	1008.539	1022.213	1033.660	1041.813	1048.751	1053.107	1055.032
27.5	928.774	954.198	973.797	986.813	1000.082	1010.262	1017.251	1022.467	1025.404	1026.670
30.0	903.604	928.825	947.664	960.275	972.025	980.634	986.104	989.902	990.510	991.270
32.5	874.939	899.806	916.873	928.521	938.954	945.436	949.589	950.855	950.095	949.336
35.0	842.577	866.127	881.371	892.411	901.223	905.478	907.959	907.301	904.515	902.389
37.5	806.163	829.055	842.729	851.845	858.783	861.214	861.974	859.340	854.427	851.642
40.0	767.572	788.691	800.288	808.189	812.747	813.912	812.646	808.240	802.112	798.009
42.5	726.600	745.035	755.417	762.153	764.533	764.280	759.671	753.949	746.352	742.300
45.0	683.603	698.999	708.672	713.787	714.395	712.116	706.039	698.239	690.592	685.679
47.5	638.174	651.848	659.648	663.801	662.788	659.040	651.798	642.682	634.933	627.944
50.0	591.987	603.736	610.118	611.839	610.320	605.559	597.203	587.530	579.882	572.032
52.5	544.431	554.864	560.131	560.840	558.358	551.775	543.520	533.543	525.996	517.944
55.0	496.977	505.485	510.448	509.993	506.853	498.902	490.089	480.872	473.427	465.780
57.5	449.523	457.069	460.665	460.158	455.600	448.459	438.583	430.227	422.782	415.692
60.0	403.183	409.716	412.451	411.337	406.272	398.523	390.015	382.368	374.619	368.187
62.5	357.755	363.022	364.997	363.781	358.463	351.171	343.827	336.484	329.039	322.506
65.0	313.020	318.353	319.619	317.695	312.285	305.874	299.361	292.458	285.545	279.944
67.5	270.873	275.052	275.452	273.239	268.529	263.743	257.336	250.985	245.298	240.507
70.0	230.955	233.351	233.629	231.670	228.069	223.444	217.879	212.425	207.183	203.359
72.5	192.698	194.552	194.886	193.103	189.609	185.273	181.070	175.610	171.863	168.075
75.0	156.745	158.482	158.108	156.199	153.692	150.375	146.095	142.484	139.298	136.260
77.5	123.497	124.298	123.933	122.712	120.519	117.668	114.867	112.047	108.927	107.590
80.0	92.979	93.110	92.837	92.128	90.441	88.325	86.035	83.508	81.807	80.784
82.5	64.835	65.418	65.195	64.162	63.199	61.493	59.675	58.642	57.826	56.509
85.0	40.526	40.450	40.090	39.518	38.875	38.308	37.579	36.687	35.461	34.874
87.5	18.895	18.971	18.698	18.354	17.913	17.407	16.632	16.181	15.974	15.644
90.0	1.742	1.631	1.590	1.504	1.443	1.388	1.347	1.317	1.286	1.276
92.5	1.018	1.008	0.988	0.972	0.962	0.942	0.932	0.917	0.912	0.912
95.0	0.881	0.876	0.871	0.851	0.841	0.825	0.825	0.816	0.816	0.816
97.5	0.820	0.816	0.810	0.800	0.790	0.780	0.775	0.775	0.770	0.770

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP3-P-D-4FT-S-835-DAO-120-KPL2008-115.003.IES

CANDELA TABULATION - (Cont.)

100.0	0.785	0.785	0.770	0.770	0.760	0.760	0.749	0.749	0.749	0.755
102.5	0.770	0.765	0.760	0.749	0.744	0.744	0.744	0.740	0.744	0.744
105.0	0.760	0.760	0.744	0.744	0.740	0.734	0.734	0.740	0.734	0.744
107.5	0.749	0.749	0.744	0.740	0.734	0.734	0.734	0.734	0.734	0.740
110.0	0.755	0.749	0.740	0.740	0.729	0.724	0.724	0.734	0.734	0.740
112.5	0.755	0.740	0.744	0.729	0.729	0.729	0.724	0.740	0.740	0.740
115.0	0.749	0.740	0.734	0.729	0.724	0.724	0.719	0.729	0.729	0.734
117.5	0.775	0.770	0.760	0.760	0.755	0.755	0.755	0.760	0.765	0.770
120.0	0.861	0.846	0.836	0.831	0.836	0.825	0.825	0.831	0.831	0.836
122.5	0.993	0.967	0.957	0.957	0.942	0.942	0.947	0.947	0.952	0.947
125.0	1.145	1.119	1.109	1.099	1.094	1.089	1.084	1.089	1.094	1.094
127.5	1.327	1.302	1.281	1.266	1.261	1.261	1.251	1.256	1.256	1.261
130.0	1.519	1.494	1.469	1.449	1.438	1.433	1.428	1.428	1.423	1.428
132.5	1.722	1.691	1.661	1.641	1.626	1.615	1.600	1.600	1.600	1.595
135.0	1.945	1.909	1.879	1.848	1.833	1.813	1.803	1.798	1.788	1.788
137.5	2.183	2.137	2.102	2.066	2.041	2.020	2.011	1.995	1.985	1.991
140.0	2.405	2.355	2.314	2.284	2.249	2.228	2.213	2.203	2.198	2.188
142.5	2.618	2.573	2.527	2.492	2.456	2.436	2.416	2.405	2.385	2.390
145.0	2.826	2.770	2.720	2.689	2.649	2.623	2.598	2.588	2.578	2.573
147.5	3.018	2.953	2.902	2.862	2.826	2.801	2.781	2.765	2.750	2.745
150.0	3.186	3.125	3.079	3.039	2.998	2.963	2.938	2.917	2.912	2.892
152.5	3.343	3.282	3.226	3.186	3.140	3.110	3.079	3.064	3.054	3.039
155.0	3.469	3.419	3.378	3.323	3.282	3.241	3.206	3.186	3.171	3.160
157.5	3.571	3.530	3.495	3.464	3.424	3.378	3.348	3.323	3.287	3.272
160.0	3.646	3.621	3.596	3.571	3.545	3.515	3.484	3.454	3.428	3.413
162.5	3.717	3.692	3.677	3.656	3.636	3.626	3.611	3.586	3.550	3.530
165.0	3.768	3.743	3.728	3.717	3.712	3.707	3.707	3.697	3.692	3.677
167.5	3.819	3.798	3.788	3.778	3.783	3.783	3.793	3.809	3.819	3.829
170.0	3.864	3.844	3.834	3.824	3.829	3.839	3.859	3.885	3.910	3.935
172.5	3.864	3.854	3.849	3.849	3.854	3.864	3.880	3.910	3.935	3.970
175.0	3.854	3.844	3.844	3.839	3.849	3.854	3.869	3.885	3.910	3.925
177.5	3.813	3.798	3.793	3.798	3.793	3.798	3.804	3.813	3.813	3.813
180.0	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741	3.741

Vert. Horizontal Angles

	<u>350</u>	<u>355</u>	<u>360</u>
0.0	939.975	939.975	939.975
2.5	972.177	970.050	970.455
5.0	1003.881	1001.956	1002.361
7.5	1032.798	1031.077	1031.634
10.0	1058.121	1056.601	1057.058
12.5	1077.619	1076.454	1077.011
15.0	1089.926	1088.457	1089.166
17.5	1094.231	1092.458	1093.319
20.0	1089.926	1087.950	1088.964
22.5	1076.809	1074.935	1075.289
25.0	1055.437	1053.107	1053.411
27.5	1026.215	1023.480	1023.733
30.0	989.649	986.459	986.661
32.5	947.006	943.816	943.309
35.0	899.248	895.349	893.981
37.5	846.426	843.184	841.412
40.0	791.679	788.438	786.311
42.5	735.159	731.209	729.487
45.0	677.981	674.132	672.360

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP3-P-D-4FT-S-835-DAO-120-KPL2008-115.003.IES****CANDELA TABULATION - (Cont.)**

47.5	621.411	616.904	614.422
50.0	564.740	561.498	558.713
52.5	511.158	508.017	505.232
55.0	459.348	456.461	453.777
57.5	409.817	407.285	405.057
60.0	362.768	359.932	357.755
62.5	318.454	315.416	313.795
65.0	275.685	273.857	272.236
67.5	236.891	235.078	233.756
70.0	200.508	198.912	196.856
72.5	166.039	165.360	163.279
75.0	134.984	133.571	132.274
77.5	106.404	104.541	103.396
80.0	79.396	78.028	77.639
82.5	55.168	54.707	54.565
85.0	34.312	33.755	33.679
87.5	15.356	15.376	15.345
90.0	1.256	1.230	1.205
92.5	0.907	0.892	0.892
95.0	0.810	0.805	0.810
97.5	0.770	0.770	0.770
100.0	0.755	0.749	0.749
102.5	0.749	0.740	0.740
105.0	0.740	0.740	0.740
107.5	0.744	0.740	0.740
110.0	0.740	0.734	0.729
112.5	0.744	0.740	0.729
115.0	0.740	0.729	0.740
117.5	0.765	0.765	0.760
120.0	0.841	0.841	0.841
122.5	0.957	0.952	0.952
125.0	1.099	1.089	1.094
127.5	1.266	1.261	1.266
130.0	1.428	1.418	1.418
132.5	1.595	1.590	1.590
135.0	1.788	1.783	1.783
137.5	1.985	1.980	1.975
140.0	2.188	2.178	2.178
142.5	2.385	2.370	2.370
145.0	2.568	2.557	2.553
147.5	2.735	2.720	2.725
150.0	2.892	2.877	2.877
152.5	3.034	3.014	3.018
155.0	3.155	3.135	3.130
157.5	3.272	3.262	3.251
160.0	3.408	3.398	3.383
162.5	3.530	3.510	3.504
165.0	3.661	3.641	3.636
167.5	3.829	3.804	3.798
170.0	3.970	3.981	3.991
172.5	4.011	4.026	4.031
175.0	3.940	3.910	3.880
177.5	3.804	3.783	3.788
180.0	3.741	3.741	3.741

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	344.77	N.A.	14.00
0-30	728.62	N.A.	29.60
0-40	1177.54	N.A.	47.90
0-60	1993.3	N.A.	81.10
0-80	2408.03	N.A.	98.00
0-90	2449.62	N.A.	99.60
10-90	2360.55	N.A.	96.00
20-40	832.77	N.A.	33.90
20-50	1274.69	N.A.	51.90
40-70	1082.89	N.A.	44.10
60-80	414.73	N.A.	16.90
70-80	147.59	N.A.	6.00
80-90	41.59	N.A.	1.70
90-110	1.81	N.A.	0.10
90-120	2.61	N.A.	0.10
90-130	3.49	N.A.	0.10
90-150	6.05	N.A.	0.20
90-180	8.65	N.A.	0.40
110-180	6.83	N.A.	0.30
0-180	2458.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

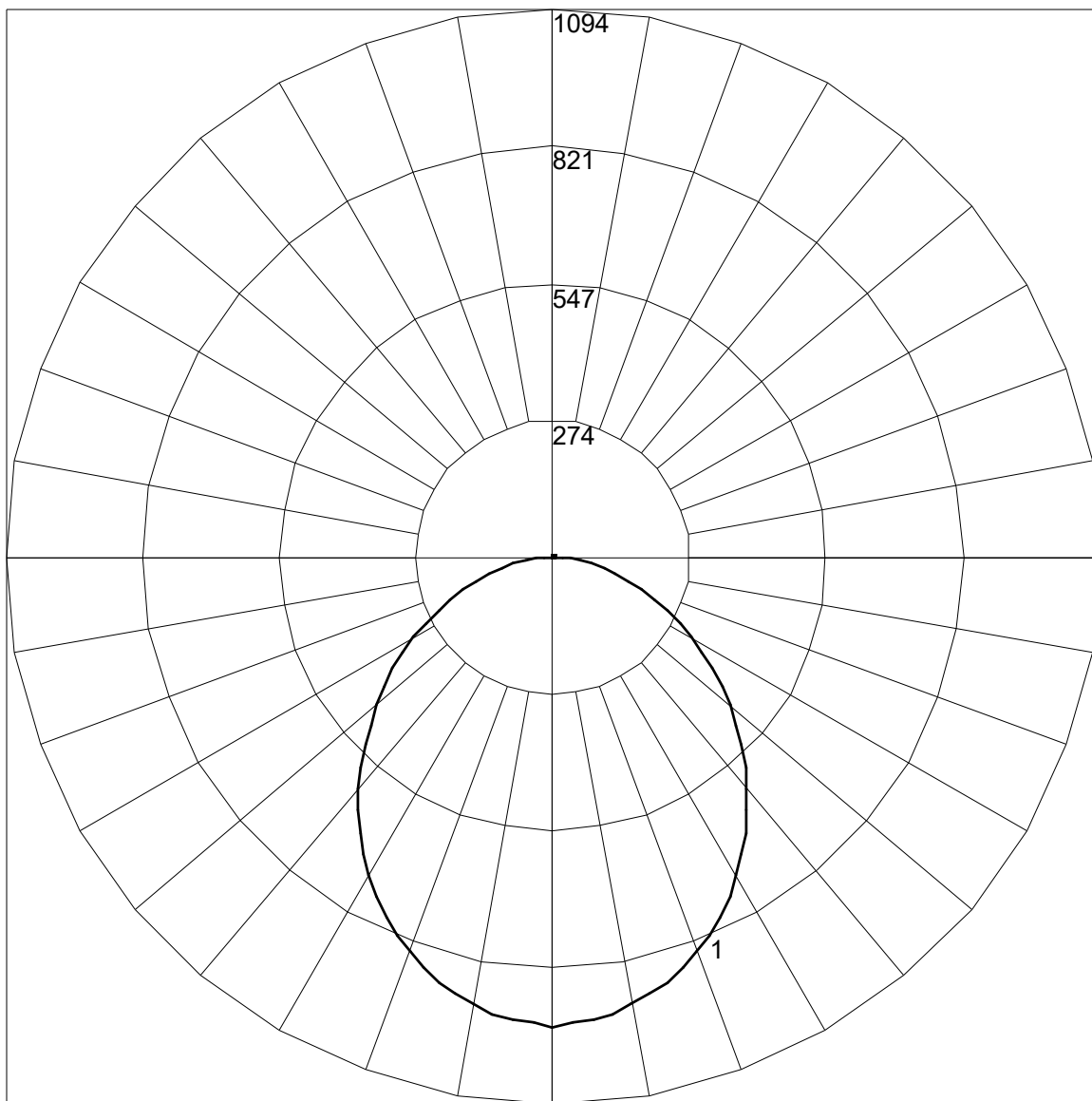
Zone	Lumens
0-10	89.07
10-20	255.70
20-30	383.85
30-40	448.91
40-50	441.93
50-60	373.83
60-70	267.13
70-80	147.59
80-90	41.59
90-100	0.99
100-110	0.82
110-120	0.79
120-130	0.89
130-140	1.17
140-150	1.39
150-160	1.31
160-170	0.94
170-180	0.35

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	92	85	79	97	90	84	78	86	81	77	83	78	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	38	32	28	38	32	27	26

POLAR GRAPH



Maximum Candela = 1094.231 Located At Horizontal Angle = 10, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)