

IES Report

ZipTwo® | 707 | Square, Side Diffuse | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-S9-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	86	89	91	91
Total Lumens, 4' rail length (1219mm)	1276	1316	1343	1343
Lumens per foot (305mm)	319	329	336	336
Input Power (W), 4' rail length (1219mm)	14.9	14.9	14.9	14.9
Watts per foot (305mm)	3.8	3.8	3.8	3.8
CRI	82	82	82	82

Due to the large number of options in Vode's product offering, most Vode IES reports are factored reports prepared from source reports. Source reports are the IES test reports prepared for Vode by an NVLAP accredited photometric test laboratory. Factored reports are based on data from the Vode source reports.

If the data above is in black, it is directly from a Vode source report. If it is in grey, it is factored from Vode source reports. Reference details on Vode source reports can be found on the [IES File Finder](#) page on [vode.com](#).



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_S9.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911537 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-LO-35-S9-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, square side diffuse lens,

[MORE] low output, clear anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1343
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	14.89
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)	0.11 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4037	4152	4928
55	3196	3423	4689
65	2247	2559	4379
75	1309	1627	4088
85	391	595	3158

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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	206.869	206.869	206.869	206.869	206.869	206.869	206.869	206.869	206.869	206.869
5	215.035	214.977	214.919	214.583	214.310	213.979	213.597	213.162	212.680	212.152
10	224.564	224.414	223.979	223.474	222.836	222.070	221.189	219.919	218.579	217.164
15	234.094	233.827	233.125	232.325	231.234	229.587	227.789	225.869	223.839	221.461
20	241.680	241.292	240.433	239.296	237.377	235.318	233.027	230.214	227.412	224.211
25	245.375	244.748	243.983	242.127	240.050	237.504	234.651	231.942	227.801	223.607
30	243.380	242.701	241.761	239.876	237.614	234.952	232.099	228.305	224.141	219.716
35	235.167	234.482	233.317	231.809	229.448	226.908	224.013	219.692	215.830	211.097
40	220.580	220.035	218.811	217.245	215.540	213.597	210.117	206.544	201.950	197.589
45	200.744	200.483	199.595	198.621	196.811	195.234	192.305	190.211	185.577	182.677
50	178.234	177.811	176.964	176.007	174.615	172.927	170.914	168.444	165.416	161.861
55	152.128	151.769	151.479	151.009	150.139	148.677	147.024	144.901	142.900	140.238
60	125.292	125.071	124.990	124.694	124.271	123.296	121.986	120.669	119.016	116.719
65	98.936	98.919	99.110	98.919	98.629	98.136	97.440	96.425	95.253	93.931
70	73.996	74.159	74.426	74.449	74.489	74.147	73.776	73.237	72.436	71.317
75	51.243	51.574	51.922	52.177	52.194	52.206	51.933	51.597	51.353	50.947
80	30.920	31.419	31.923	32.248	32.300	32.312	32.364	32.306	31.883	31.488
85	12.934	13.903	14.407	14.744	14.889	14.877	14.941	14.976	14.987	14.860
90	2.813	2.575	2.482	2.430	2.384	2.285	2.140	2.042	1.897	1.798
95	12.934	13.903	14.407	14.744	14.889	14.877	14.941	14.976	14.987	14.860
100	30.920	31.419	31.923	32.248	32.300	32.312	32.364	32.306	31.883	31.488
105	51.243	51.574	51.922	52.177	52.194	52.206	51.933	51.597	51.353	50.947
110	73.996	74.159	74.426	74.449	74.489	74.147	73.776	73.237	72.436	71.317
115	98.936	98.919	99.110	98.919	98.629	98.136	97.440	96.425	95.253	93.931
120	125.292	125.071	124.990	124.694	124.271	123.296	121.986	120.669	119.016	116.719
125	152.128	151.769	151.479	151.009	150.139	148.677	147.024	144.901	142.900	140.238
130	178.234	177.811	176.964	176.007	174.615	172.927	170.914	168.444	165.416	161.861
135	200.744	200.483	199.595	198.621	196.811	195.234	192.305	190.211	185.577	182.677
140	220.580	220.035	218.811	217.245	215.540	213.597	210.117	206.544	201.950	197.589
145	235.167	234.482	233.317	231.809	229.448	226.908	224.013	219.692	215.830	211.097
150	243.380	242.701	241.761	239.876	237.614	234.952	232.099	228.305	224.141	219.716
155	245.375	244.748	243.983	242.127	240.050	237.504	234.651	231.942	227.801	223.607
160	241.680	241.292	240.433	239.296	237.377	235.318	233.027	230.214	227.412	224.211
165	234.094	233.827	233.125	232.325	231.234	229.587	227.789	225.869	223.839	221.461
170	224.564	224.414	223.979	223.474	222.836	222.070	221.189	219.919	218.579	217.164
175	215.035	214.977	214.919	214.583	214.310	213.979	213.597	213.162	212.680	212.152
180	206.480	206.480	206.480	206.480	206.480	206.480	206.480	206.480	206.480	206.480

**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	206.869	206.869	206.869	206.869	206.869	206.869	206.869	206.869	206.869	206.869
5	211.590	210.987	210.349	209.687	209.009	208.307	207.599	206.880	206.167	205.622
10	215.690	214.159	212.622	211.172	209.740	208.307	206.880	205.465	204.073	203.012
15	218.967	216.450	213.939	211.451	208.986	206.793	204.665	202.600	200.599	199.044
20	220.655	216.966	213.417	209.977	206.666	203.487	200.715	198.099	195.617	193.848
25	219.605	215.122	210.517	206.196	202.055	198.151	194.723	191.922	189.370	187.114
30	214.907	209.977	204.868	199.897	195.640	191.423	187.647	184.185	181.030	178.501
35	206.057	201.353	195.756	190.866	186.284	181.818	177.515	173.797	170.578	168.154
40	193.911	189.271	184.179	178.913	173.983	169.644	165.248	161.495	158.299	156.072
45	177.776	173.507	168.548	163.548	159.111	155.017	150.974	147.529	144.710	142.564
50	158.491	154.947	150.539	146.079	142.048	138.255	134.769	131.747	129.468	127.554
55	137.031	133.974	130.477	126.956	123.360	120.269	117.549	115.020	112.624	111.517
60	114.434	112.015	109.585	106.766	103.942	101.517	99.476	97.573	95.828	94.876

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CANDELA TABULATION - (Cont.)

65	92.220	90.376	88.317	86.118	84.239	82.580	80.585	79.228	78.590	77.360
70	70.058	68.974	67.628	66.213	64.995	63.904	62.524	61.637	61.161	60.436
75	49.828	49.538	49.091	48.848	48.575	47.595	47.015	46.725	46.307	46.255
80	31.291	31.384	30.815	30.044	29.783	29.162	28.501	28.437	28.223	27.956
85	14.442	14.657	14.465	13.914	14.152	13.995	13.450	13.816	13.781	13.450
90	1.653	1.508	1.311	1.311	1.119	0.922	1.218	0.974	0.679	1.311
95	14.442	14.657	14.465	13.914	14.152	13.995	13.450	13.816	13.781	13.450
100	31.291	31.384	30.815	30.044	29.783	29.162	28.501	28.437	28.223	27.956
105	49.828	49.538	49.091	48.848	48.575	47.595	47.015	46.725	46.307	46.255
110	70.058	68.974	67.628	66.213	64.995	63.904	62.524	61.637	61.161	60.436
115	92.220	90.376	88.317	86.118	84.239	82.580	80.585	79.228	78.590	77.360
120	114.434	112.015	109.585	106.766	103.942	101.517	99.476	97.573	95.828	94.876
125	137.031	133.974	130.477	126.956	123.360	120.269	117.549	115.020	112.624	111.517
130	158.491	154.947	150.539	146.079	142.048	138.255	134.769	131.747	129.468	127.554
135	177.776	173.507	168.548	163.548	159.111	155.017	150.974	147.529	144.710	142.564
140	193.911	189.271	184.179	178.913	173.983	169.644	165.248	161.495	158.299	156.072
145	206.057	201.353	195.756	190.866	186.284	181.818	177.515	173.797	170.578	168.154
150	214.907	209.977	204.868	199.897	195.640	191.423	187.647	184.185	181.030	178.501
155	219.605	215.122	210.517	206.196	202.055	198.151	194.723	191.922	189.370	187.114
160	220.655	216.966	213.417	209.977	206.666	203.487	200.715	198.099	195.617	193.848
165	218.967	216.450	213.939	211.451	208.986	206.793	204.665	202.600	200.599	199.044
170	215.690	214.159	212.622	211.172	209.740	208.307	206.880	205.465	204.073	203.012
175	211.590	210.987	210.349	209.687	209.009	208.307	207.599	206.880	206.167	205.622
180	206.480	206.480	206.480	206.480	206.480	206.480	206.480	206.480	206.480	206.480

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	206.869	206.869	206.869	206.869	206.869	206.869	206.869	206.869	206.869	206.869
5	205.082	204.554	204.050	203.563	203.099	202.664	202.263	201.892	201.562	201.272
10	201.985	201.005	200.077	199.207	198.401	197.942	197.542	197.194	196.893	196.649
15	197.577	196.208	195.037	194.317	193.766	193.326	192.995	192.856	192.804	192.612
20	192.206	190.768	189.619	188.744	188.094	187.891	187.908	187.955	187.949	187.949
25	185.095	183.547	182.387	181.563	181.372	181.453	181.581	181.517	181.726	182.166
30	176.291	174.870	173.762	173.362	173.345	173.420	173.519	173.791	174.255	174.655
35	166.147	164.650	163.815	163.664	163.705	164.036	164.128	164.610	165.149	165.555
40	154.216	152.726	152.221	152.192	152.337	152.743	153.236	153.752	154.338	154.906
45	140.882	139.722	139.409	139.270	139.461	139.890	140.418	141.294	141.711	142.552
50	126.069	125.286	125.315	125.181	125.512	126.028	126.597	127.159	127.809	128.453
55	110.519	109.852	109.701	109.858	110.328	110.850	111.412	112.213	112.543	112.392
60	94.146	93.728	93.682	93.908	94.279	94.946	95.364	94.853	94.244	93.264
65	76.844	77.105	77.210	77.418	77.824	78.265	78.236	76.688	75.319	74.275
70	60.192	60.337	60.656	60.819	61.086	60.923	60.076	58.957	58.017	57.356
75	46.562	44.295	44.295	44.445	44.817	44.463	43.564	42.682	41.969	41.354
80	28.362	28.524	28.762	28.988	29.070	28.043	27.260	26.489	25.561	24.551
85	14.042	14.193	13.903	13.137	12.122	10.933	10.602	10.376	10.069	9.953
90	1.166	1.264	1.409	1.554	1.699	2.042	2.285	2.384	2.529	2.627
95	14.042	14.193	13.903	13.137	12.122	10.933	10.602	10.376	10.069	9.953
100	28.362	28.524	28.762	28.988	29.070	28.043	27.260	26.489	25.561	24.551
105	46.562	44.295	44.295	44.445	44.817	44.463	43.564	42.682	41.969	41.354
110	60.192	60.337	60.656	60.819	61.086	60.923	60.076	58.957	58.017	57.356
115	76.844	77.105	77.210	77.418	77.824	78.265	78.236	76.688	75.319	74.275
120	94.146	93.728	93.682	93.908	94.279	94.946	95.364	94.853	94.244	93.264
125	110.519	109.852	109.701	109.858	110.328	110.850	111.412	112.213	112.543	112.392
130	126.069	125.286	125.315	125.181	125.512	126.028	126.597	127.159	127.809	128.453
135	140.882	139.722	139.409	139.270	139.461	139.890	140.418	141.294	141.711	142.552

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CANDELA TABULATION - (Cont.)

140	154.216	152.726	152.221	152.192	152.337	152.743	153.236	153.752	154.338	154.906
145	166.147	164.650	163.815	163.664	163.705	164.036	164.128	164.610	165.149	165.555
150	176.291	174.870	173.762	173.362	173.345	173.420	173.519	173.791	174.255	174.655
155	185.095	183.547	182.387	181.563	181.372	181.453	181.581	181.517	181.726	182.166
160	192.206	190.768	189.619	188.744	188.094	187.891	187.908	187.955	187.949	187.949
165	197.577	196.208	195.037	194.317	193.766	193.326	192.995	192.856	192.804	192.612
170	201.985	201.005	200.077	199.207	198.401	197.942	197.542	197.194	196.893	196.649
175	205.082	204.554	204.050	203.563	203.099	202.664	202.263	201.892	201.562	201.272
180	206.480	206.480	206.480	206.480	206.480	206.480	206.480	206.480	206.480	206.480

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	206.869	206.869	206.869	206.869	206.869	206.869	206.869
5	201.022	200.819	200.657	200.547	200.483	200.465	200.500
10	196.475	196.197	195.994	195.860	195.796	195.802	195.883
15	192.548	192.595	192.757	192.751	192.751	192.827	192.966
20	188.140	188.169	188.268	188.517	188.541	188.593	188.784
25	182.219	182.526	182.822	183.031	183.379	183.396	183.628
30	175.172	175.491	175.850	176.187	176.569	176.703	176.970
35	166.321	166.686	167.063	167.545	167.800	168.084	168.316
40	155.417	156.136	156.426	156.728	157.128	157.528	157.667
45	142.912	143.660	144.066	144.426	144.774	145.110	145.220
50	129.004	129.543	130.019	130.361	130.651	130.923	131.121
55	113.344	113.373	114.480	115.159	115.420	115.617	115.809
60	92.707	92.864	94.076	96.495	98.907	99.534	99.714
65	73.904	73.590	74.043	75.296	78.712	82.870	83.091
70	57.872	58.336	58.412	58.180	58.354	63.585	66.317
75	40.931	41.470	42.143	42.879	42.792	42.033	48.766
80	24.354	24.372	24.731	25.514	25.914	25.526	29.951
85	10.463	10.939	11.693	12.290	12.859	13.462	13.270
90	2.964	3.405	3.840	4.280	4.524	4.617	0.000
95	10.463	10.939	11.693	12.290	12.859	13.462	13.270
100	24.354	24.372	24.731	25.514	25.914	25.526	29.951
105	40.931	41.470	42.143	42.879	42.792	42.033	48.766
110	57.872	58.336	58.412	58.180	58.354	63.585	66.317
115	73.904	73.590	74.043	75.296	78.712	82.870	83.091
120	92.707	92.864	94.076	96.495	98.907	99.534	99.714
125	113.344	113.373	114.480	115.159	115.420	115.617	115.809
130	129.004	129.543	130.019	130.361	130.651	130.923	131.121
135	142.912	143.660	144.066	144.426	144.774	145.110	145.220
140	155.417	156.136	156.426	156.728	157.128	157.528	157.667
145	166.321	166.686	167.063	167.545	167.800	168.084	168.316
150	175.172	175.491	175.850	176.187	176.569	176.703	176.970
155	182.219	182.526	182.822	183.031	183.379	183.396	183.628
160	188.140	188.169	188.268	188.517	188.541	188.593	188.784
165	192.548	192.595	192.757	192.751	192.751	192.827	192.966
170	196.475	196.197	195.994	195.860	195.796	195.802	195.883
175	201.022	200.819	200.657	200.547	200.483	200.465	200.500
180	206.480	206.480	206.480	206.480	206.480	206.480	206.480

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	78.35	N.A.	5.80
0-30	171.49	N.A.	12.80
0-40	288.24	N.A.	21.50
0-60	522.84	N.A.	38.90
0-80	655.98	N.A.	48.80
0-90	671.64	N.A.	50.00
10-90	651.87	N.A.	48.50
20-40	209.89	N.A.	15.60
20-50	333.24	N.A.	24.80
40-70	318.29	N.A.	23.70
60-80	133.14	N.A.	9.90
70-80	49.45	N.A.	3.70
80-90	15.66	N.A.	1.20
90-110	65.11	N.A.	4.80
90-120	148.79	N.A.	11.10
90-130	260.05	N.A.	19.40
90-150	500.15	N.A.	37.20
90-180	671.63	N.A.	50.00
110-180	606.52	N.A.	45.20
0-180	1343.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	19.76
10-20	58.58
20-30	93.14
30-40	116.75
40-50	123.35
50-60	111.25
60-70	83.69
70-80	49.45
80-90	15.66
90-100	15.66
100-110	49.45
110-120	83.69
120-130	111.25
130-140	123.35
140-150	116.75
150-160	93.14
160-170	58.58
170-180	19.76

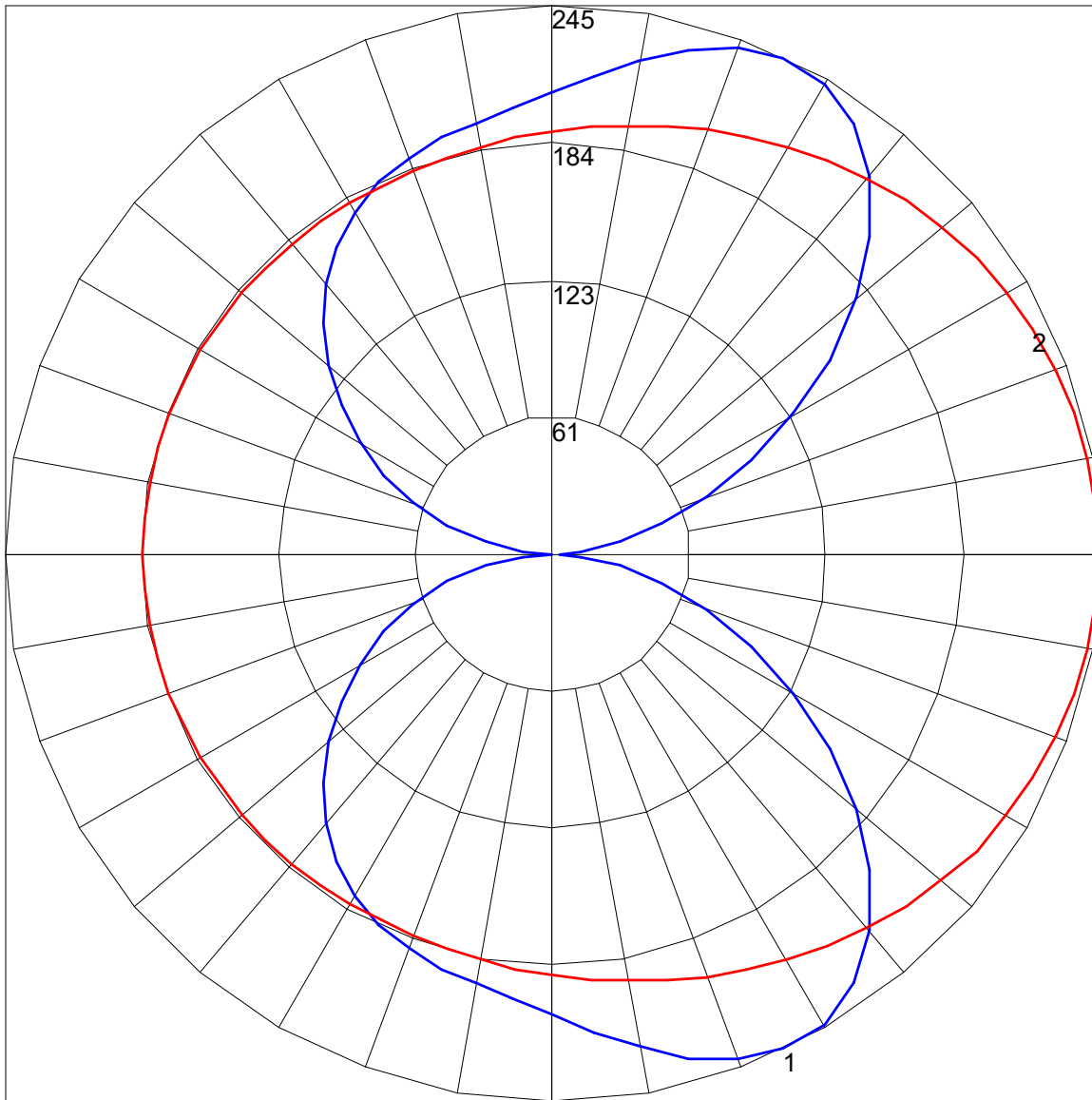
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	85	90	86	82	79	73	70	68	60	59	57	49	48	47	41
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	63	57	74	66	59	54	56	51	46	46	43	40	38	35	33	29
4	74	63	54	48	67	58	51	45	49	44	39	41	37	34	34	31	28	24
5	67	56	47	41	62	52	44	39	44	38	34	37	32	29	30	27	24	21
6	62	50	41	36	57	46	39	33	39	34	29	33	29	25	27	24	21	18
7	57	45	37	31	53	42	34	29	36	30	26	30	25	22	25	21	19	16
8	53	41	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17	14
9	49	37	29	24	45	34	28	23	30	24	20	25	21	18	21	17	15	13
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	13	12

POLAR GRAPH



Maximum Candela = 245.375 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)