

IES Report

ZipTwo® | 707 | Square 3519, Side Diffuse | 80 CRI | SO

707-Z2-4-48-XX-XX-X-0-Z-SO-35-F9-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	58	60	61	61
Total Lumens, 4' rail length (1219mm)	1503	1551	1582	1582
Lumens per foot (305mm)	376	388	396	396
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
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_SO_35_F9_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011213 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 9/9/2020

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-Z-SO-35-F9-BL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board,

[MORE] square 3519, side diffuse black lens, standard output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1582
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	26.08
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)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4089	2774	231
55	5726	3836	231
65	7753	5258	228
75	10234	7290	246
85	13888	10895	425

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PHOTOMETRIC FILENAME : VODE_707_Z2_SO_35_F9_BL.IES

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	11.391	11.391	11.391	11.391	11.391	11.391	11.391	11.391	11.391	11.391
5	22.168	22.168	21.970	21.785	21.495	21.100	20.613	20.033	19.453	18.664
10	37.538	37.340	37.050	36.563	35.786	35.009	33.837	32.573	31.018	29.464
15	54.253	54.068	53.476	52.606	51.249	49.590	47.746	45.507	42.885	40.252
20	72.929	72.639	71.862	70.493	68.452	65.923	63.011	59.601	55.819	51.922
25	94.122	93.635	92.371	90.434	87.615	84.007	79.924	75.064	69.820	64.368
30	116.882	116.394	114.736	112.114	108.414	103.750	98.496	92.081	85.086	77.790
35	140.998	140.314	138.272	135.059	130.291	124.468	117.659	109.782	101.129	91.988
40	166.472	165.590	163.061	158.885	153.050	145.858	137.588	127.960	117.462	106.476
45	193.117	191.945	188.836	183.872	176.482	167.829	157.911	146.531	133.992	121.162
50	219.565	218.393	214.507	208.568	199.914	189.811	178.037	164.523	149.942	135.256
55	245.421	243.774	239.586	232.487	222.569	210.900	197.386	181.934	165.497	148.677
60	268.563	267.009	262.241	254.469	243.090	230.156	215.087	197.977	179.498	160.927
65	288.399	286.462	281.207	272.356	260.594	246.593	230.260	211.688	191.551	171.715
70	302.598	300.753	295.116	286.160	274.015	259.132	242.022	223.161	201.376	180.183
75	311.158	309.117	303.665	294.721	282.274	267.299	249.992	230.550	208.962	186.400
80	314.662	312.910	307.458	298.712	286.752	271.579	253.692	234.146	213.046	190.878
85	315.044	313.293	307.852	299.384	287.819	272.751	255.826	235.898	214.994	192.815
90	313.096	311.356	306.298	297.737	286.358	271.776	254.956	235.410	214.113	192.235
95	309.987	308.340	303.282	295.208	283.736	269.248	252.810	233.566	212.558	190.878
100	305.521	303.862	298.804	290.928	279.548	265.257	249.017	230.156	209.450	188.245
105	298.514	296.960	291.995	284.223	273.041	259.237	243.287	224.808	204.682	184.162
110	288.596	286.949	282.274	274.688	263.807	250.479	235.016	217.222	197.873	178.141
115	275.570	274.015	269.445	262.241	251.650	239.296	224.611	207.895	189.509	170.752
120	259.620	258.158	253.889	246.883	237.255	225.585	212.071	196.318	179.406	161.797
125	240.758	239.494	235.608	229.181	220.435	209.937	197.676	183.779	167.632	151.392
130	220.342	218.973	215.574	209.937	202.153	192.630	181.540	169.093	153.828	136.033
135	198.360	197.386	194.184	189.324	182.410	174.058	163.943	149.257	133.214	117.172
140	175.218	174.244	171.622	167.052	160.730	152.853	138.956	125.628	113.181	101.326
145	149.547	148.770	146.531	142.842	137.692	126.208	115.617	105.792	95.874	86.246
150	126.800	126.022	124.271	121.255	112.694	103.170	94.714	86.733	80.318	73.706
155	103.658	103.066	101.419	95.491	87.510	80.516	74.681	70.980	66.410	59.902
160	79.541	79.054	76.432	68.939	64.078	59.902	57.861	54.555	49.300	44.335
165	53.093	52.513	47.943	45.704	43.071	42.781	40.554	37.248	34.232	31.888
170	34.417	31.506	29.754	28.884	30.148	29.847	29.070	28.107	27.028	25.868
175	20.810	18.282	18.862	20.230	20.323	20.033	19.639	19.453	18.966	18.374
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	11.391	11.391	11.391	11.391	11.391	11.391	11.391	11.391	11.391	11.391
5	17.992	17.110	16.240	15.266	14.396	13.421	12.447	11.670	10.892	10.405
10	27.712	25.764	23.722	21.495	19.349	17.110	14.883	12.644	10.788	9.918
15	37.433	34.324	31.308	27.910	24.406	20.810	17.307	13.804	10.695	9.721
20	47.641	42.978	38.500	33.942	29.371	24.406	19.546	14.778	10.312	10.011
25	58.638	52.316	46.284	39.962	33.942	27.910	21.878	15.660	10.011	10.405
30	70.203	62.037	54.253	46.574	38.698	31.216	23.919	16.530	9.628	11.182
35	82.267	72.245	62.524	52.989	43.372	34.324	25.868	17.307	9.141	11.960
40	94.807	82.743	71.085	59.508	48.128	37.340	27.515	17.992	8.561	12.644
45	107.741	93.345	79.738	65.830	52.896	40.356	29.174	18.572	7.969	13.317
50	119.898	103.368	87.998	72.245	57.374	43.175	30.531	18.966	7.296	14.001
55	131.463	113.471	95.781	78.277	61.840	45.901	31.796	19.059	6.519	14.488
60	141.868	122.229	102.683	83.624	65.830	48.523	32.967	19.152	5.638	14.778

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_SO_35_F9_BL.IES

CANDELA TABULATION - (Cont.)

65	151.102	129.816	108.808	88.288	69.333	50.657	33.837	19.059	4.768	14.976
70	158.595	136.033	113.866	92.278	72.152	52.513	34.812	18.479	3.990	15.068
75	163.943	140.696	117.659	95.190	74.286	53.870	34.812	18.189	3.213	15.068
80	167.446	143.817	120.188	97.138	75.655	54.648	35.102	17.794	2.819	14.976
85	168.513	145.371	121.638	98.310	76.525	55.819	35.299	17.597	2.042	15.266
90	168.710	145.568	121.835	98.403	76.525	55.715	35.786	17.887	1.264	15.173
95	167.632	144.884	121.348	98.113	76.328	55.622	35.589	17.794	1.462	15.660
100	165.590	142.355	119.990	97.823	75.655	55.228	35.496	16.333	1.752	16.333
105	161.994	139.536	117.659	96.071	75.168	53.870	32.967	14.396	2.239	15.950
110	157.528	135.349	114.353	93.542	72.639	50.762	31.888	12.934	2.726	13.908
115	151.299	130.686	110.072	89.459	68.556	49.300	30.148	11.960	3.503	12.447
120	143.515	124.271	104.632	83.717	65.436	45.901	26.738	11.090	4.083	11.182
125	134.386	114.550	94.122	75.945	58.441	40.554	23.722	10.312	4.663	10.208
130	118.239	100.154	83.822	67.384	51.434	35.589	20.810	9.628	5.348	10.011
135	102.486	88.392	73.706	58.824	44.822	30.926	17.992	9.338	5.928	10.011
140	89.065	76.525	63.696	50.657	38.210	26.065	16.530	9.141	6.415	10.115
145	77.210	66.897	53.580	42.004	31.888	21.785	15.173	8.851	6.902	10.115
150	65.633	54.845	44.822	35.682	26.645	21.495	14.883	9.338	8.166	10.892
155	51.342	43.755	37.050	29.371	24.986	20.126	14.396	10.208	9.628	11.867
160	39.475	33.153	29.267	26.158	22.562	18.084	13.514	10.892	10.695	12.447
165	29.951	27.910	25.474	22.562	19.349	15.950	12.934	11.762	11.670	12.934
170	24.499	22.852	20.903	18.862	16.437	14.291	13.131	12.934	13.027	13.711
175	17.412	16.530	15.463	14.488	14.094	13.804	13.711	13.804	14.001	14.291
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	11.391	11.391	11.391	11.391	11.391	11.391	11.391	11.391	11.391	11.391
5	10.115	10.011	10.115	10.405	10.892	11.577	12.250	12.841	13.514	14.094
10	10.208	11.577	13.514	15.463	17.597	19.349	20.903	22.562	24.024	25.276
15	11.670	14.883	18.084	21.100	24.209	26.935	29.661	32.283	34.614	36.853
20	13.618	18.282	22.458	26.645	30.926	34.812	38.698	42.595	45.901	49.103
25	15.753	21.390	26.842	32.190	37.920	42.978	48.233	53.290	57.954	62.234
30	17.794	24.406	31.216	37.828	44.822	51.632	58.046	64.473	70.598	76.038
35	19.639	27.422	35.496	43.465	52.212	60.192	68.162	76.131	83.427	90.619
40	21.193	30.334	39.765	49.103	59.415	68.939	78.370	87.998	96.941	105.409
45	22.852	33.060	43.860	54.740	66.514	77.697	88.775	100.062	110.850	120.675
50	24.406	35.879	47.943	60.192	73.614	86.246	98.983	112.021	124.468	135.940
55	25.764	38.408	51.724	65.343	80.121	94.517	108.808	123.494	137.692	150.812
60	26.935	40.554	55.135	69.913	86.246	101.999	117.752	134.386	149.744	164.430
65	27.910	42.491	58.151	74.089	91.698	108.611	125.732	143.910	160.730	176.772
70	28.687	44.150	60.772	77.592	96.361	114.446	132.634	151.879	169.870	186.980
75	29.371	45.414	62.617	80.516	100.062	118.923	137.982	157.621	176.877	194.764
80	30.241	46.968	64.276	82.557	102.776	122.125	141.775	162.098	181.146	200.019
85	30.438	47.456	65.146	83.822	104.435	124.271	144.200	164.616	183.872	202.838
90	30.636	47.746	66.213	85.179	104.725	124.561	144.594	165.497	184.649	203.510
95	30.926	47.746	66.120	85.573	105.015	124.654	144.490	165.404	184.162	202.838
100	31.598	48.128	66.213	84.889	104.632	124.654	144.200	163.943	182.514	200.692
105	31.888	48.036	65.923	84.007	103.948	122.902	141.868	161.124	179.104	196.713
110	31.413	47.746	65.146	82.650	101.906	120.280	138.469	156.936	174.928	191.261
115	30.241	47.061	63.696	80.516	98.983	116.394	133.702	151.879	168.316	183.779
120	25.578	45.112	61.352	77.592	95.097	111.430	127.774	144.780	160.150	174.638
125	22.562	40.066	56.202	71.085	87.418	103.460	119.990	136.428	150.522	163.746
130	19.639	33.060	50.854	64.368	78.857	92.962	107.346	122.612	138.365	151.693
135	16.924	28.397	42.885	57.664	70.598	82.847	95.190	108.228	121.348	134.769

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_SO_35_F9_BL.IES

CANDELA TABULATION - (Cont.)

140	15.950	24.696	33.744	48.906	62.524	73.614	83.427	94.320	105.409	116.394
145	14.976	20.416	29.267	37.433	51.922	65.250	74.286	81.966	89.946	98.890
150	15.463	20.033	25.091	32.770	39.869	51.144	63.104	71.572	77.395	82.743
155	15.463	19.743	23.235	27.330	33.547	39.382	45.600	56.109	63.394	68.846
160	15.358	19.152	22.458	25.381	27.805	31.598	36.076	40.449	45.217	49.103
165	14.976	17.794	21.008	23.722	25.764	27.515	28.780	31.018	33.060	35.983
170	14.976	16.727	18.664	20.810	22.655	24.499	25.578	26.065	27.132	27.805
175	14.778	15.556	16.437	17.307	18.374	19.349	20.323	21.100	21.680	21.970
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	11.391	11.391	11.391	11.391	11.391	11.391	11.391
5	14.581	15.068	15.463	15.753	15.950	15.950	15.950
10	26.448	27.422	28.292	28.977	29.464	29.661	29.754
15	38.605	40.356	41.911	42.978	43.662	44.150	44.335
20	51.922	54.555	56.596	58.244	59.415	60.088	60.285
25	66.120	69.623	72.442	74.681	76.328	77.395	77.790
30	81.188	85.573	89.262	92.278	94.412	95.781	96.268
35	97.046	102.393	107.149	110.942	113.668	115.420	115.907
40	113.286	119.990	125.732	130.488	133.794	136.033	136.718
45	130.001	138.075	144.884	150.812	154.802	157.621	158.491
50	146.531	156.449	164.616	171.622	176.390	179.696	180.670
55	162.968	174.534	183.976	191.945	197.780	201.469	202.640
60	178.141	191.064	201.863	210.900	217.512	221.792	223.056
65	191.945	205.656	218.196	227.917	235.306	239.876	241.338
70	203.220	218.393	231.420	241.732	249.319	254.272	255.931
75	211.584	227.140	240.758	251.360	259.237	264.283	265.849
80	217.616	232.974	246.396	256.998	264.967	270.025	271.486
85	220.435	235.608	249.017	259.817	267.496	272.264	273.621
90	220.818	235.700	248.924	259.330	266.916	271.382	273.041
95	219.750	234.529	247.463	257.775	264.967	269.445	271.092
100	217.326	231.814	244.064	254.562	261.661	266.232	267.589
105	213.046	226.954	238.914	248.832	256.116	260.397	261.754
110	206.816	220.145	231.710	241.338	248.147	252.625	253.982
115	198.070	211.294	222.186	231.223	237.939	241.918	243.287
120	187.955	199.822	210.714	218.880	224.912	228.891	230.063
125	176.100	186.888	196.806	204.288	209.740	213.243	214.310
130	162.678	172.794	181.250	188.059	192.920	196.028	197.003
135	148.387	157.134	164.720	170.555	174.928	177.654	178.524
140	128.250	140.406	147.216	152.366	155.962	158.398	159.082
145	108.321	118.042	129.038	133.597	136.810	138.759	139.432
150	89.842	97.138	105.595	114.353	117.264	118.819	119.410
155	72.535	77.592	83.717	91.106	97.428	98.890	99.180
160	52.513	55.715	60.482	65.923	74.286	76.722	77.210
165	38.118	39.475	39.579	41.806	45.414	51.922	52.316
170	27.805	27.712	26.842	25.381	26.355	30.334	34.614
175	21.970	21.878	21.390	19.929	17.702	16.623	20.810
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_SO_35_F9_BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11.60	N.A.	0.70
0-30	37.32	N.A.	2.40
0-40	87.06	N.A.	5.50
0-60	283.82	N.A.	17.90
0-80	605.52	N.A.	38.30
0-90	788.95	N.A.	49.90
10-90	787.21	N.A.	49.80
20-40	75.46	N.A.	4.80
20-50	156.30	N.A.	9.90
40-70	345.72	N.A.	21.90
60-80	321.70	N.A.	20.30
70-80	172.74	N.A.	10.90
80-90	183.43	N.A.	11.60
90-110	353.37	N.A.	22.30
90-120	502.57	N.A.	31.80
90-130	621.17	N.A.	39.30
90-150	756.06	N.A.	47.80
90-180	793.26	N.A.	50.10
110-180	439.89	N.A.	27.80
0-180	1582.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.74
10-20	9.85
20-30	25.73
30-40	49.74
40-50	80.84
50-60	115.92
60-70	148.96
70-80	172.74
80-90	183.43
90-100	182.35
100-110	171.02
110-120	149.20
120-130	118.60
130-140	83.65
140-150	51.24
150-160	26.07
160-170	9.42
170-180	1.71

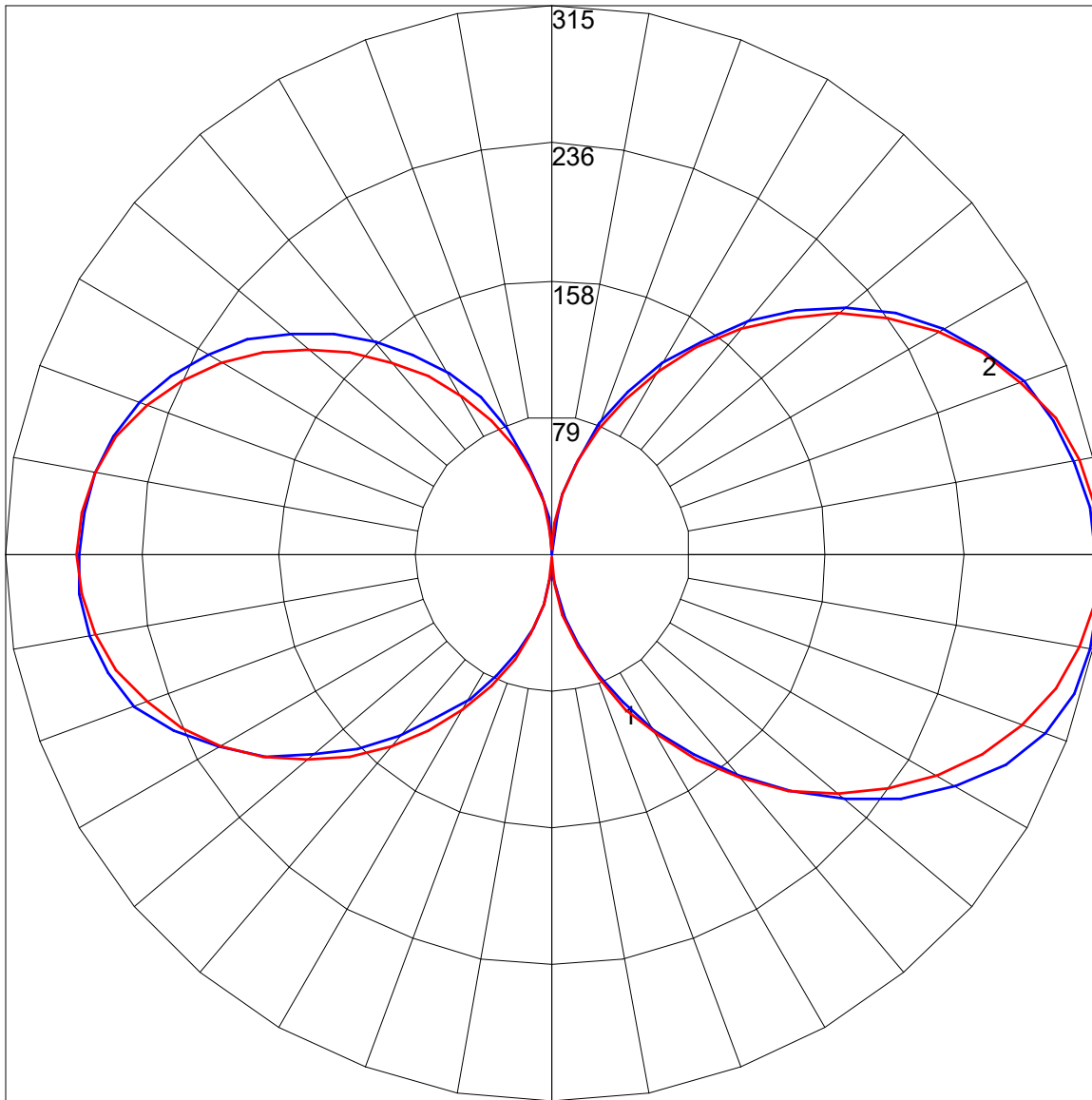
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PHOTOMETRIC FILENAME : VODE_707_Z2_SO_35_F9_BL.IES

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	92	85	79	73	84	78	72	67	64	60	56	52	48	45	40	38	35	30
2	81	71	62	55	74	65	57	50	53	47	42	42	37	33	32	28	25	20
3	73	60	51	43	66	55	46	39	45	38	32	35	30	26	26	22	19	14
4	66	52	42	35	59	47	39	32	38	31	26	30	25	20	22	18	15	11
5	60	46	36	29	54	42	33	26	34	27	21	26	21	17	20	15	12	8
6	55	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	7
7	50	36	27	20	45	33	25	19	27	20	15	21	16	12	16	11	8	5
8	46	32	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	9	13	9	6	4
10	40	27	19	13	36	24	17	12	20	14	10	16	11	8	12	8	5	3

POLAR GRAPH



Maximum Candela = 315.044 Located At Horizontal Angle = 0, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)