

IES Report

ZipTwo® | 707 | Ceiling Cable | Square 3535, Side Diffuse | 80 CRI | SO

707-Z2-S-4-48-CC-XX-XX-XX-X-X-Z-SO-X-S9-WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	103	106	108	108
Total Lumens, 4' rail length (1219mm)	2664	2748	2804	2804
Lumens per foot (305mm)	666	687	701	701
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_CC_SO_35_S9_WH.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] 5/12/2021

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-CC-Z-SO-35-S9-WH

[LUMINAIRE] ZipTwo LED, 48", ceiling cable suspended, 3500K, 80 CRI, zipper board, square 3535,

[MORE] side diffuse lens, standard output, white painted finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2804
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	26.11
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	8427	8666	10286
55	6671	7144	9787
65	4689	5342	9141
75	2733	3396	8534
85	817	1242	6593

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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	431.820	431.820	431.820	431.820	431.820	431.820	431.820	431.820	431.820	431.820
5	448.867	448.746	448.625	447.923	447.354	446.664	445.865	444.956	443.952	442.850
10	468.759	468.444	467.536	466.483	465.151	463.553	461.713	459.061	456.264	453.310
15	488.651	488.094	486.629	484.958	482.682	479.244	475.490	471.483	467.245	462.282
20	504.487	503.675	501.884	499.511	495.503	491.205	486.423	480.551	474.703	468.020
25	512.199	510.891	509.293	505.419	501.085	495.770	489.813	484.159	475.515	466.761
30	508.034	506.617	504.656	500.721	496.000	490.442	484.486	476.568	467.875	458.637
35	490.890	489.462	487.028	483.880	478.953	473.650	467.609	458.589	450.526	440.646
40	460.441	459.303	456.749	453.480	449.920	445.865	438.600	431.142	421.554	412.449
45	419.035	418.491	416.638	414.604	410.827	407.534	401.420	397.049	387.376	381.322
50	372.048	371.164	369.397	367.399	364.493	360.970	356.769	351.612	345.292	337.870
55	317.555	316.804	316.199	315.218	313.402	310.351	306.900	302.469	298.292	292.735
60	261.535	261.075	260.906	260.288	259.405	257.371	254.634	251.886	248.436	243.641
65	206.521	206.485	206.884	206.485	205.880	204.850	203.398	201.279	198.833	196.073
70	154.461	154.800	155.357	155.405	155.490	154.776	154.001	152.875	151.204	148.868
75	106.965	107.655	108.382	108.915	108.951	108.975	108.406	107.704	107.195	106.348
80	64.542	65.584	66.637	67.315	67.424	67.448	67.557	67.436	66.552	65.729
85	26.999	29.020	30.074	30.776	31.079	31.054	31.188	31.260	31.284	31.018
90	5.872	5.376	5.182	5.073	4.976	4.770	4.467	4.262	3.959	3.753
95	26.999	29.020	30.074	30.776	31.079	31.054	31.188	31.260	31.284	31.018
100	64.542	65.584	66.637	67.315	67.424	67.448	67.557	67.436	66.552	65.729
105	106.965	107.655	108.382	108.915	108.951	108.975	108.406	107.704	107.195	106.348
110	154.461	154.800	155.357	155.405	155.490	154.776	154.001	152.875	151.204	148.868
115	206.521	206.485	206.884	206.485	205.880	204.850	203.398	201.279	198.833	196.073
120	261.535	261.075	260.906	260.288	259.405	257.371	254.634	251.886	248.436	243.641
125	317.555	316.804	316.199	315.218	313.402	310.351	306.900	302.469	298.292	292.735
130	372.048	371.164	369.397	367.399	364.493	360.970	356.769	351.612	345.292	337.870
135	419.035	418.491	416.638	414.604	410.827	407.534	401.420	397.049	387.376	381.322
140	460.441	459.303	456.749	453.480	449.920	445.865	438.600	431.142	421.554	412.449
145	490.890	489.462	487.028	483.880	478.953	473.650	467.609	458.589	450.526	440.646
150	508.034	506.617	504.656	500.721	496.000	490.442	484.486	476.568	467.875	458.637
155	512.199	510.891	509.293	505.419	501.085	495.770	489.813	484.159	475.515	466.761
160	504.487	503.675	501.884	499.511	495.503	491.205	486.423	480.551	474.703	468.020
165	488.651	488.094	486.629	484.958	482.682	479.244	475.490	471.483	467.245	462.282
170	468.759	468.444	467.536	466.483	465.151	463.553	461.713	459.061	456.264	453.310
175	448.867	448.746	448.625	447.923	447.354	446.664	445.865	444.956	443.952	442.850
180	431.009	431.009	431.009	431.009	431.009	431.009	431.009	431.009	431.009	431.009

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	431.820	431.820	431.820	431.820	431.820	431.820	431.820	431.820	431.820	431.820
5	441.675	440.416	439.085	437.704	436.288	434.823	433.346	431.845	430.355	429.217
10	450.235	447.039	443.831	440.804	437.813	434.823	431.845	428.890	425.985	423.769
15	457.076	451.821	446.579	441.385	436.239	431.663	427.220	422.910	418.733	415.488
20	460.599	452.899	445.489	438.310	431.397	424.762	418.975	413.515	408.333	404.640
25	458.407	449.049	439.436	430.416	421.772	413.624	406.468	400.621	395.294	390.584
30	448.601	438.310	427.643	417.268	408.381	399.579	391.698	384.470	377.884	372.605
35	430.125	420.307	408.623	398.417	388.853	379.530	370.547	362.786	356.067	351.006
40	404.773	395.088	384.458	373.465	363.174	354.118	344.941	337.107	330.436	325.787
45	371.092	362.181	351.829	341.393	332.131	323.584	315.145	307.954	302.070	297.590
50	330.836	323.439	314.237	304.927	296.513	288.595	281.318	275.011	270.252	266.257
55	286.040	279.660	272.359	265.010	257.504	251.051	245.373	240.094	235.094	232.781
60	238.871	233.822	228.750	222.866	216.970	211.909	207.647	203.676	200.032	198.046

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_CC_SO_35_S9_WH.IES

CANDELA TABULATION - (Cont.)

65	192.501	188.651	184.353	179.765	175.842	172.379	168.215	165.382	164.050	161.483
70	146.240	143.976	141.168	138.214	135.671	133.395	130.513	128.661	127.668	126.155
75	104.011	103.406	102.474	101.965	101.396	99.350	98.139	97.534	96.662	96.553
80	65.317	65.511	64.324	62.714	62.169	60.874	59.494	59.361	58.913	58.356
85	30.146	30.594	30.195	29.045	29.541	29.214	28.076	28.839	28.766	28.076
90	3.450	3.148	2.736	2.736	2.337	1.925	2.542	2.034	1.417	2.736
95	30.146	30.594	30.195	29.045	29.541	29.214	28.076	28.839	28.766	28.076
100	65.317	65.511	64.324	62.714	62.169	60.874	59.494	59.361	58.913	58.356
105	104.011	103.406	102.474	101.965	101.396	99.350	98.139	97.534	96.662	96.553
110	146.240	143.976	141.168	138.214	135.671	133.395	130.513	128.661	127.668	126.155
115	192.501	188.651	184.353	179.765	175.842	172.379	168.215	165.382	164.050	161.483
120	238.871	233.822	228.750	222.866	216.970	211.909	207.647	203.676	200.032	198.046
125	286.040	279.660	272.359	265.010	257.504	251.051	245.373	240.094	235.094	232.781
130	330.836	323.439	314.237	304.927	296.513	288.595	281.318	275.011	270.252	266.257
135	371.092	362.181	351.829	341.393	332.131	323.584	315.145	307.954	302.070	297.590
140	404.773	395.088	384.458	373.465	363.174	354.118	344.941	337.107	330.436	325.787
145	430.125	420.307	408.623	398.417	388.853	379.530	370.547	362.786	356.067	351.006
150	448.601	438.310	427.643	417.268	408.381	399.579	391.698	384.470	377.884	372.605
155	458.407	449.049	439.436	430.416	421.772	413.624	406.468	400.621	395.294	390.584
160	460.599	452.899	445.489	438.310	431.397	424.762	418.975	413.515	408.333	404.640
165	457.076	451.821	446.579	441.385	436.239	431.663	427.220	422.910	418.733	415.488
170	450.235	447.039	443.831	440.804	437.813	434.823	431.845	428.890	425.985	423.769
175	441.675	440.416	439.085	437.704	436.288	434.823	433.346	431.845	430.355	429.217
180	431.009	431.009	431.009	431.009	431.009	431.009	431.009	431.009	431.009	431.009

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	431.820	431.820	431.820	431.820	431.820	431.820	431.820	431.820	431.820	431.820
5	428.091	426.990	425.936	424.919	423.951	423.043	422.207	421.433	420.742	420.137
10	421.626	419.580	417.643	415.827	414.144	413.188	412.352	411.626	410.996	410.488
15	412.425	409.568	407.122	405.621	404.471	403.551	402.860	402.570	402.461	402.061
20	401.214	398.211	395.814	393.986	392.630	392.206	392.243	392.339	392.327	392.327
25	386.371	383.138	380.717	378.998	378.598	378.768	379.034	378.901	379.337	380.257
30	367.992	365.026	362.714	361.878	361.842	361.999	362.205	362.774	363.743	364.578
35	346.817	343.694	341.950	341.635	341.720	342.410	342.604	343.609	344.735	345.582
40	321.913	318.802	317.748	317.688	317.990	318.838	319.867	320.944	322.167	323.354
45	294.079	291.658	291.004	290.713	291.113	292.009	293.110	294.939	295.810	297.566
50	263.158	261.523	261.584	261.305	261.995	263.073	264.259	265.434	266.790	268.134
55	230.699	229.307	228.992	229.319	230.299	231.389	232.563	234.234	234.924	234.609
60	196.521	195.649	195.552	196.024	196.799	198.192	199.063	197.998	196.727	194.681
65	160.406	160.950	161.168	161.604	162.452	163.372	163.311	160.079	157.222	155.042
70	125.646	125.949	126.615	126.954	127.511	127.172	125.404	123.068	121.106	119.726
75	97.195	92.461	92.461	92.776	93.551	92.812	90.936	89.095	87.606	86.323
80	59.203	59.542	60.039	60.511	60.680	58.537	56.903	55.293	53.356	51.249
85	29.311	29.626	29.020	27.422	25.304	22.822	22.132	21.659	21.018	20.776
90	2.434	2.639	2.942	3.245	3.547	4.262	4.770	4.976	5.279	5.484
95	29.311	29.626	29.020	27.422	25.304	22.822	22.132	21.659	21.018	20.776
100	59.203	59.542	60.039	60.511	60.680	58.537	56.903	55.293	53.356	51.249
105	97.195	92.461	92.461	92.776	93.551	92.812	90.936	89.095	87.606	86.323
110	125.646	125.949	126.615	126.954	127.511	127.172	125.404	123.068	121.106	119.726
115	160.406	160.950	161.168	161.604	162.452	163.372	163.311	160.079	157.222	155.042
120	196.521	195.649	195.552	196.024	196.799	198.192	199.063	197.998	196.727	194.681
125	230.699	229.307	228.992	229.319	230.299	231.389	232.563	234.234	234.924	234.609
130	263.158	261.523	261.584	261.305	261.995	263.073	264.259	265.434	266.790	268.134
135	294.079	291.658	291.004	290.713	291.113	292.009	293.110	294.939	295.810	297.566

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_CC_SO_35_S9_WH.IES

CANDELA TABULATION - (Cont.)

140	321.913	318.802	317.748	317.688	317.990	318.838	319.867	320.944	322.167	323.354
145	346.817	343.694	341.950	341.635	341.720	342.410	342.604	343.609	344.735	345.582
150	367.992	365.026	362.714	361.878	361.842	361.999	362.205	362.774	363.743	364.578
155	386.371	383.138	380.717	378.998	378.598	378.768	379.034	378.901	379.337	380.257
160	401.214	398.211	395.814	393.986	392.630	392.206	392.243	392.339	392.327	392.327
165	412.425	409.568	407.122	405.621	404.471	403.551	402.860	402.570	402.461	402.061
170	421.626	419.580	417.643	415.827	414.144	413.188	412.352	411.626	410.996	410.488
175	428.091	426.990	425.936	424.919	423.951	423.043	422.207	421.433	420.742	420.137
180	431.009	431.009	431.009	431.009	431.009	431.009	431.009	431.009	431.009	431.009

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	431.820	431.820	431.820	431.820	431.820	431.820	431.820
5	419.617	419.193	418.854	418.624	418.491	418.454	418.527
10	410.125	409.544	409.120	408.841	408.708	408.720	408.890
15	401.928	402.025	402.364	402.352	402.352	402.509	402.800
20	392.727	392.787	392.993	393.514	393.562	393.671	394.071
25	380.366	381.007	381.625	382.061	382.787	382.823	383.308
30	365.656	366.322	367.072	367.774	368.573	368.852	369.409
35	347.180	347.943	348.730	349.735	350.268	350.861	351.345
40	324.419	325.920	326.526	327.155	327.991	328.826	329.117
45	298.316	299.878	300.726	301.476	302.203	302.905	303.135
50	269.284	270.410	271.403	272.117	272.722	273.291	273.703
55	236.595	236.656	238.968	240.384	240.929	241.341	241.740
60	193.518	193.845	196.376	201.424	206.461	207.768	208.144
65	154.267	153.614	154.558	157.173	164.304	172.985	173.445
70	120.804	121.772	121.930	121.445	121.809	132.729	138.431
75	85.439	86.565	87.969	89.507	89.325	87.739	101.796
80	50.837	50.874	51.624	53.259	54.094	53.283	62.521
85	21.841	22.834	24.408	25.655	26.841	28.100	27.701
90	6.187	7.107	8.015	8.935	9.443	9.637	0.000
95	21.841	22.834	24.408	25.655	26.841	28.100	27.701
100	50.837	50.874	51.624	53.259	54.094	53.283	62.521
105	85.439	86.565	87.969	89.507	89.325	87.739	101.796
110	120.804	121.772	121.930	121.445	121.809	132.729	138.431
115	154.267	153.614	154.558	157.173	164.304	172.985	173.445
120	193.518	193.845	196.376	201.424	206.461	207.768	208.144
125	236.595	236.656	238.968	240.384	240.929	241.341	241.740
130	269.284	270.410	271.403	272.117	272.722	273.291	273.703
135	298.316	299.878	300.726	301.476	302.203	302.905	303.135
140	324.419	325.920	326.526	327.155	327.991	328.826	329.117
145	347.180	347.943	348.730	349.735	350.268	350.861	351.345
150	365.656	366.322	367.072	367.774	368.573	368.852	369.409
155	380.366	381.007	381.625	382.061	382.787	382.823	383.308
160	392.727	392.787	392.993	393.514	393.562	393.671	394.071
165	401.928	402.025	402.364	402.352	402.352	402.509	402.800
170	410.125	409.544	409.120	408.841	408.708	408.720	408.890
175	419.617	419.193	418.854	418.624	418.491	418.454	418.527
180	431.009	431.009	431.009	431.009	431.009	431.009	431.009

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_CC_SO_35_S9_WH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	163.54	N.A.	5.80
0-30	357.97	N.A.	12.80
0-40	601.67	N.A.	21.50
0-60	1091.39	N.A.	38.90
0-80	1369.3	N.A.	48.80
0-90	1401.98	N.A.	50.00
10-90	1360.73	N.A.	48.50
20-40	438.13	N.A.	15.60
20-50	695.62	N.A.	24.80
40-70	664.41	N.A.	23.70
60-80	277.91	N.A.	9.90
70-80	103.23	N.A.	3.70
80-90	32.68	N.A.	1.20
90-110	135.91	N.A.	4.80
90-120	310.59	N.A.	11.10
90-130	542.83	N.A.	19.40
90-150	1044.01	N.A.	37.20
90-180	1401.97	N.A.	50.00
110-180	1266.07	N.A.	45.20
0-180	2803.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	41.26
10-20	122.28
20-30	194.43
30-40	243.70
40-50	257.49
50-60	232.23
60-70	174.69
70-80	103.23
80-90	32.68
90-100	32.68
100-110	103.23
110-120	174.69
120-130	232.23
130-140	257.49
140-150	243.70
150-160	194.43
160-170	122.28
170-180	41.25

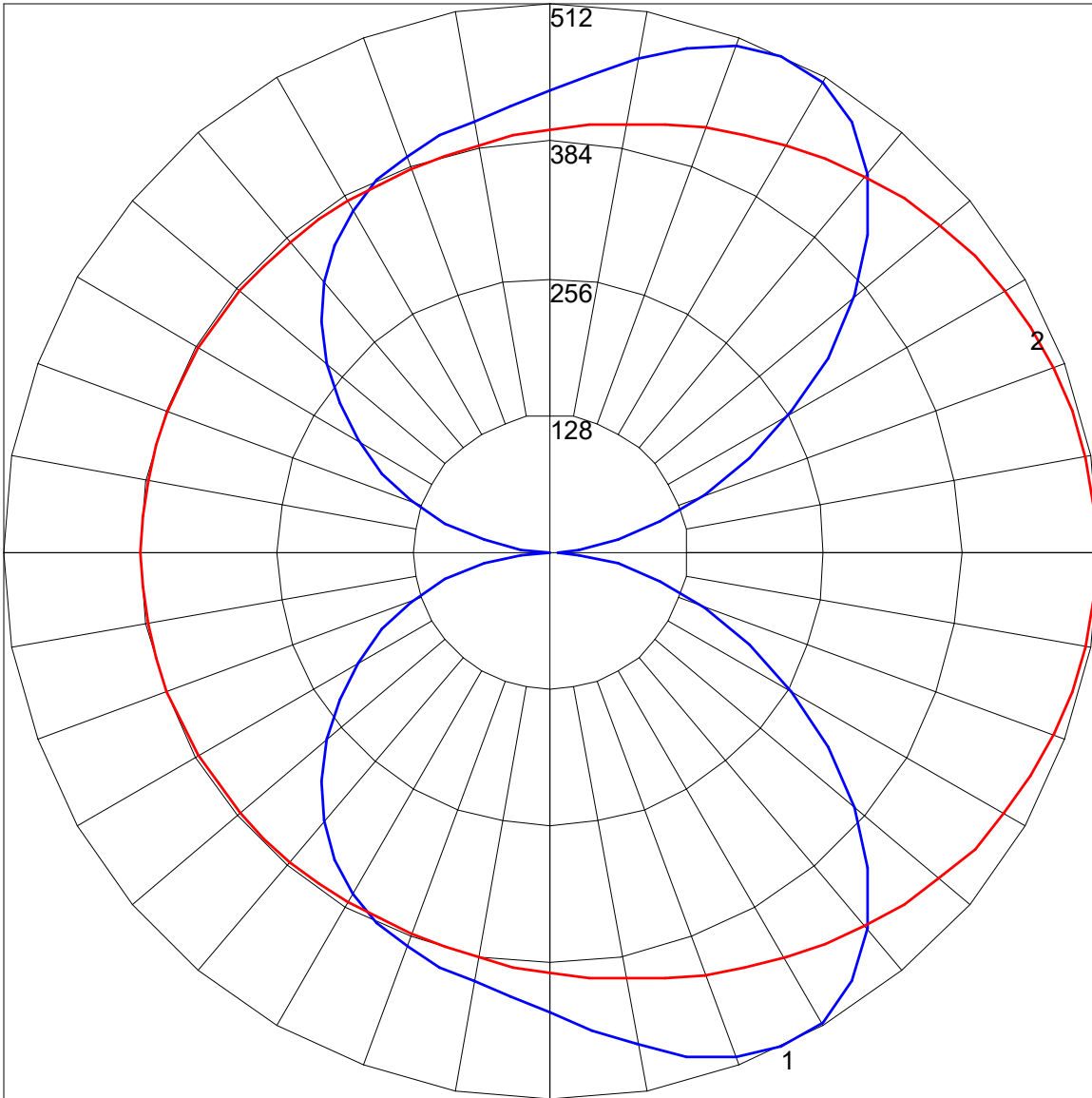
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PHOTOMETRIC FILENAME : VODE_707_Z2_CC_SO_35_S9_WH.IES

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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	97	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	11

POLAR GRAPH



Maximum Candela = 512.199 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.)