

IES Report

ZipTwo® | 707 | 85° Asymmetric | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-A1-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	64	66	67	67
Total Lumens, 4' rail length (1219mm)	942	972	992	992
Lumens per foot (305mm)	236	243	248	248
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_A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L121911525 (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-A1-AL

[LUMINAIRE] ZipTwo LED, 48", 3500K, 80 CRI, zipper board, 85° white asymmetric 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	992
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.40
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.60
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	57136	44243	14346
55	53558	39135	12207
65	46438	32614	10545
75	39285	27078	8907
85	39414	24832	6181

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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	280.065	280.065	280.065	280.065	280.065	280.065	280.065	280.065	280.065	280.065
5	349.659	349.514	348.592	347.182	345.239	342.803	339.793	336.243	332.207	327.978
10	438.242	437.366	435.133	431.874	427.257	421.422	414.323	405.959	396.575	386.709
15	522.742	521.669	518.462	513.549	506.601	497.408	486.568	473.442	459.000	443.346
20	593.920	592.458	588.764	582.442	573.690	562.316	548.413	531.686	512.436	491.724
25	643.603	641.857	637.820	630.965	621.389	608.501	592.847	573.643	551.911	526.628
30	668.885	667.522	663.149	656.003	646.427	632.374	615.113	594.842	571.312	543.066
35	668.984	667.766	663.636	656.490	646.474	632.519	614.481	592.992	568.052	537.956
40	644.676	643.313	639.520	632.716	622.410	608.455	589.982	567.710	541.459	510.974
45	598.096	596.739	592.946	586.235	576.462	562.316	543.303	520.649	493.812	463.136
50	532.753	531.587	528.038	521.814	511.995	498.040	480.054	456.959	429.879	400.270
55	454.772	453.850	450.979	445.243	435.812	422.687	405.768	383.937	359.142	332.305
60	372.122	371.101	368.526	363.567	355.105	343.389	328.367	309.308	287.964	265.309
65	290.539	289.814	287.721	283.394	276.248	266.620	254.173	238.716	221.746	204.050
70	215.476	214.942	212.947	209.595	204.050	196.463	186.986	176.094	163.357	150.232
75	150.522	150.034	148.579	145.951	141.822	136.230	129.224	121.255	112.601	103.750
80	94.807	94.366	93.299	91.449	88.438	84.645	79.976	74.826	69.281	63.690
85	50.854	50.611	49.834	48.569	46.626	44.242	41.470	38.460	35.299	32.039
90	20.903	20.758	20.323	19.546	18.525	17.261	15.898	14.291	12.737	11.229
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	280.065	280.065	280.065	280.065	280.065	280.065	280.065	280.065	280.065	280.065
5	323.263	318.159	313.049	307.655	302.018	296.473	290.737	285.000	279.212	273.476
10	375.672	364.199	351.851	339.109	326.569	313.925	300.898	288.109	275.906	263.511
15	425.604	407.322	387.921	367.552	347.669	327.683	306.924	287.964	269.584	251.256
20	468.240	444.031	417.385	390.015	363.028	336.098	308.287	283.249	259.521	236.188
25	498.527	468.971	436.636	403.042	369.982	337.021	303.328	273.087	245.033	218.150
30	511.508	478.256	441.502	403.141	365.267	326.905	290.052	256.604	225.927	197.339
35	503.974	467.950	428.521	387.243	347.037	306.489	268.030	233.514	202.785	174.441
40	474.805	437.807	397.161	355.592	315.532	275.662	238.328	205.604	176.772	150.620
45	427.205	390.549	351.608	312.081	274.642	238.421	204.728	175.560	150.179	127.571
50	366.966	333.517	299.292	263.216	230.933	200.454	171.523	147.262	125.918	107.254
55	303.131	273.041	244.157	216.056	188.541	164.523	141.137	121.203	103.652	88.485
60	241.437	217.227	194.132	170.259	151.542	131.561	113.326	97.771	83.816	71.810

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CANDELA TABULATION - (Cont.)

65	186.064	167.684	150.278	133.458	116.974	101.999	88.728	76.670	65.975	56.834
70	137.199	123.830	110.995	98.501	87.122	76.090	66.317	57.368	49.300	42.833
75	94.511	85.422	76.769	68.214	60.384	52.797	45.704	39.573	34.127	29.510
80	57.954	52.264	46.818	41.470	36.563	31.749	27.277	23.287	19.790	17.116
85	28.930	25.769	22.655	19.737	17.017	14.390	11.861	9.773	7.975	6.856
90	9.727	8.219	6.757	5.348	4.135	2.917	1.897	1.067	0.632	0.586
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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

	100	105	110	115	120	125	130	135	140	145
0	280.065	280.065	280.065	280.065	280.065	280.065	280.065	280.065	280.065	280.065
5	267.983	262.682	257.433	252.665	247.805	243.530	239.639	235.845	232.493	229.576
10	252.230	241.535	231.229	221.554	212.993	205.024	197.780	191.168	185.525	180.519
15	234.970	219.803	205.656	192.867	181.731	171.721	162.968	154.848	148.283	142.645
20	215.963	197.194	181.198	166.466	154.170	143.620	134.334	126.504	120.333	114.933
25	195.443	175.073	157.911	142.935	130.784	120.721	112.404	105.212	99.812	95.584
30	173.809	153.195	136.422	122.177	111.093	102.196	95.143	89.361	85.080	81.484
35	151.641	132.194	116.876	104.626	94.952	87.510	81.583	76.914	73.509	70.789
40	130.007	112.845	99.667	89.361	81.194	75.116	70.348	66.706	64.032	62.037
45	109.927	95.439	84.448	75.992	69.281	64.421	60.627	57.809	55.767	54.160
50	92.620	80.608	71.566	64.421	59.264	55.181	52.264	50.124	48.616	47.357
55	76.670	67.286	59.560	54.015	50.269	46.870	44.440	42.636	41.279	40.258
60	62.425	55.036	49.735	44.776	41.325	38.698	36.755	35.299	34.226	33.304
65	50.901	43.900	39.237	35.786	33.014	30.972	29.412	28.200	27.225	26.547
70	37.532	33.159	29.754	27.127	25.039	23.484	22.266	21.245	20.567	19.935
75	25.816	22.800	20.567	18.815	17.307	16.286	15.411	14.732	14.198	13.810
80	14.976	13.224	12.012	11.037	10.208	9.628	9.141	8.752	8.462	8.219
85	6.026	5.394	4.959	4.570	4.327	4.083	3.938	3.793	3.741	3.648
90	0.586	0.487	0.435	0.389	0.389	0.342	0.290	0.290	0.290	0.290
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	280.065	280.065	280.065	280.065	280.065	280.065	280.065
5	226.948	224.715	223.062	221.456	220.533	219.901	219.658
10	176.094	172.643	169.679	167.342	165.787	164.766	164.424
15	137.733	133.992	130.784	128.499	126.846	125.825	125.529
20	110.507	107.155	104.429	102.440	100.978	100.201	99.864
25	92.034	89.262	87.122	85.521	84.500	83.914	83.624
30	78.764	76.717	75.064	73.898	73.121	72.633	72.541
35	68.747	67.193	65.975	65.053	64.519	64.223	64.078
40	60.384	59.264	58.389	57.756	57.368	57.124	57.078
45	52.995	52.119	51.533	50.999	50.709	50.611	50.564
50	46.383	45.750	45.263	44.875	44.677	44.585	44.532
55	39.481	38.941	38.553	38.216	38.019	37.920	37.920
60	32.625	32.138	31.796	31.506	31.308	31.216	31.216
65	25.914	25.526	25.184	24.940	24.749	24.696	24.696
70	19.494	19.157	18.862	18.670	18.525	18.427	18.380
75	13.468	13.224	12.980	12.835	12.737	12.690	12.638
80	8.021	7.876	7.731	7.633	7.534	7.534	7.488
85	3.596	3.550	3.451	3.451	3.451	3.405	3.405
90	0.290	0.290	0.290	0.290	0.290	0.290	0.290
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	111.70	N.A.	11.30
0-30	254.41	N.A.	25.70
0-40	438.65	N.A.	44.20
0-60	792.14	N.A.	79.90
0-80	969.06	N.A.	97.70
0-90	990.20	N.A.	99.80
10-90	963.07	N.A.	97.10
20-40	326.95	N.A.	33.00
20-50	518.03	N.A.	52.20
40-70	467.51	N.A.	47.10
60-80	176.92	N.A.	17.80
70-80	62.91	N.A.	6.30
80-90	21.14	N.A.	2.10
90-110	1.58	N.A.	0.20
90-120	1.58	N.A.	0.20
90-130	1.58	N.A.	0.20
90-150	1.58	N.A.	0.20
90-180	1.58	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	991.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	27.13
10-20	84.56
20-30	142.72
30-40	184.23
40-50	191.08
50-60	162.42
60-70	114.01
70-80	62.91
80-90	21.14
90-100	1.58
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

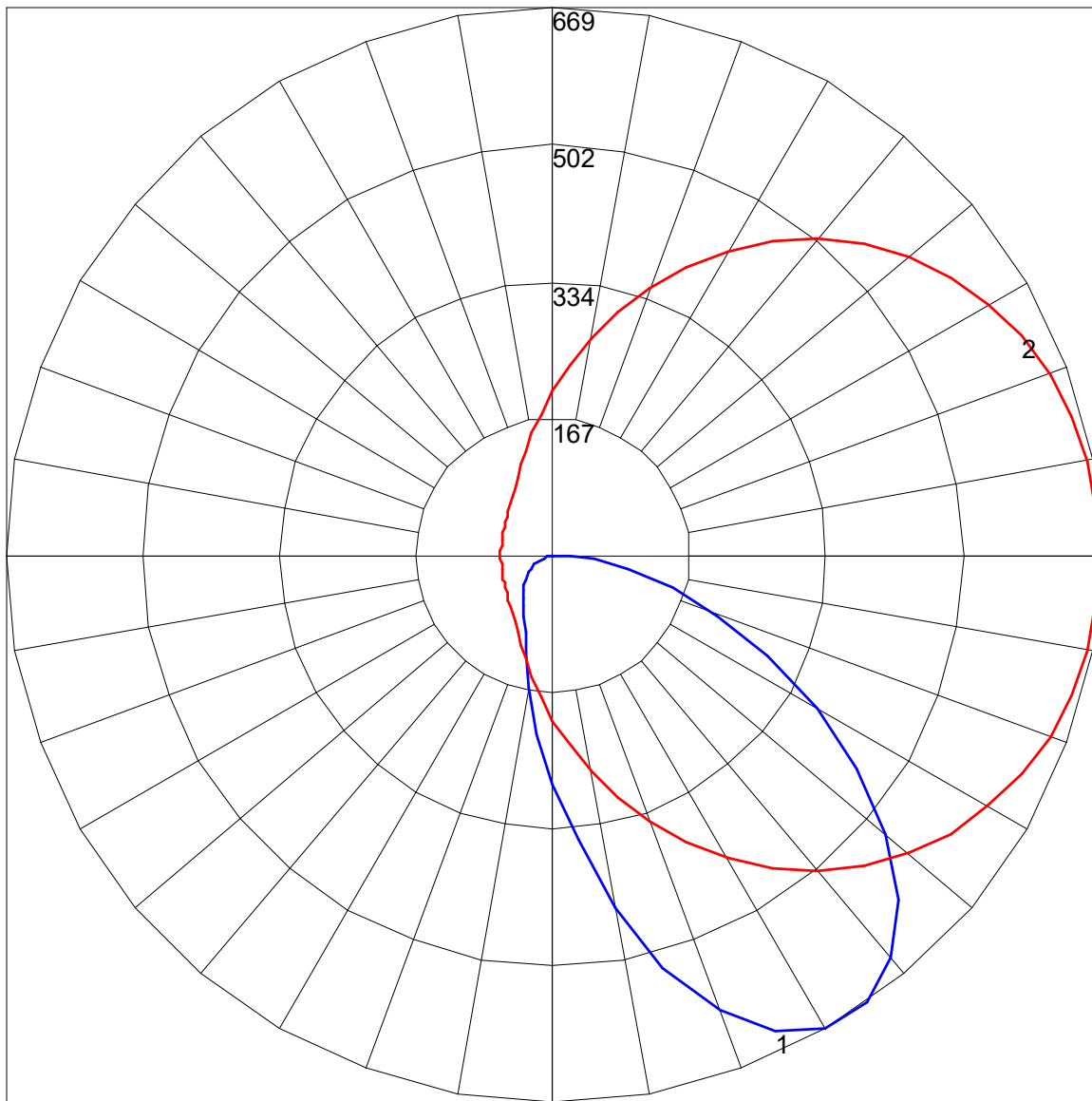
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 668.984 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)