

IES Report

ZipTwo® | 707 | Square 3536/30, Soft Wash | 80 CRI | LO

707-Z2-4-48-XX-XX-X-0-Z-LO-35-A3-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	77	79	81	81
Total Lumens, 4' rail length (1219mm)	1135	1170	1194	1194
Lumens per foot (305mm)	284	293	299	299
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_A3_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L092011502 (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-LO-35-A3-BL

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

[MORE] square 3536/30 soft wash black lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1194
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	14.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7059	6945	6708
55	6744	6625	6398
65	6416	6288	6016
75	6093	5918	5591
85	5758	5562	5099

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PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_A3_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	361.914	361.914	361.914	361.914	361.914	361.914	361.914	361.914	361.914	361.914
5	379.024	378.833	378.636	378.392	377.760	377.226	376.548	375.672	374.750	373.630
10	396.529	396.384	395.896	395.119	394.046	392.788	390.984	389.087	386.953	384.523
15	409.654	409.463	408.633	407.514	405.861	403.628	401.053	398.182	394.922	391.280
20	418.215	417.919	416.852	415.199	413.059	410.043	406.592	402.752	398.425	393.466
25	421.811	421.225	420.106	418.064	415.390	411.893	407.612	402.752	397.404	391.227
30	420.256	419.816	418.308	416.121	412.960	408.830	403.918	398.373	392.103	385.056
35	414.033	413.494	411.939	409.364	405.861	401.244	395.850	389.574	382.475	374.599
40	403.431	402.897	401.000	398.425	394.678	389.772	383.693	376.936	369.158	360.598
45	388.942	388.409	386.564	383.595	379.656	374.309	367.940	360.598	352.385	343.290
50	371.148	370.469	368.619	365.510	361.328	355.639	349.079	341.492	332.885	323.309
55	350.535	349.902	347.861	344.798	340.425	334.735	328.025	320.003	310.718	300.898
60	327.781	327.149	325.206	322.091	317.527	311.692	304.784	296.618	287.233	277.072
65	303.375	302.650	300.655	297.540	293.068	287.088	280.088	271.631	262.102	251.697
70	277.704	276.979	274.984	271.678	267.107	261.081	253.982	245.520	235.845	225.295
75	250.775	250.044	248.095	244.644	239.882	234.001	226.902	218.440	208.667	197.780
80	222.865	222.186	220.093	216.787	212.025	206.190	199.189	191.603	181.929	171.233
85	194.474	194.033	192.282	188.976	184.411	178.425	171.135	163.015	153.729	143.475
90	166.077	165.445	163.357	160.196	155.724	149.843	142.692	134.722	125.727	115.762
95	136.230	135.598	133.649	130.488	126.162	120.478	113.866	105.891	97.283	87.510
100	106.569	106.036	104.093	101.077	96.993	91.547	85.080	77.743	69.623	60.337
105	77.592	77.012	75.261	72.442	68.550	63.493	57.420	50.611	43.024	34.759
110	49.689	49.201	47.548	44.973	41.371	36.511	31.065	24.795	17.841	10.162
115	23.142	22.707	21.199	18.815	15.463	11.182	6.322	1.943	0.389	0.290
120	0.974	0.876	0.586	0.389	0.290	0.290	0.244	0.244	0.244	0.244
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	361.914	361.914	361.914	361.914	361.914	361.914	361.914	361.914	361.914	361.914
5	372.464	371.246	369.936	368.428	367.065	365.557	364.054	362.448	360.748	359.240
10	381.942	379.076	375.915	372.853	369.640	366.189	362.738	359.287	355.836	352.385
15	387.046	382.817	378.102	373.143	368.230	363.080	357.732	352.431	347.229	341.637
20	387.921	382.185	376.014	369.448	362.836	355.934	348.835	341.881	335.025	327.636
25	384.523	377.470	369.837	361.717	353.597	345.088	336.435	327.926	319.516	310.619
30	376.884	368.671	359.722	350.390	341.005	331.041	320.926	311.008	301.235	291.027
35	365.464	356.323	346.208	335.756	325.107	313.925	302.551	291.659	280.621	269.004
40	350.633	340.518	329.631	318.060	306.489	294.333	281.984	269.828	257.822	245.276
45	332.694	321.999	310.184	298.027	285.534	272.501	259.185	246.349	233.369	219.948
50	312.173	300.945	288.695	275.715	262.734	248.924	234.970	221.311	207.744	193.842
55	289.762	278.145	265.257	251.842	238.276	224.419	209.496	196.028	182.074	167.539
60	265.599	253.541	240.514	226.658	212.750	198.360	184.359	169.870	155.046	140.360

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_A3_BL.IES

CANDELA TABULATION - (Cont.)

65	239.981	227.389	214.455	199.334	187.618	172.596	157.476	142.842	127.913	113.088
70	213.869	199.091	188.541	174.829	160.150	145.128	130.488	115.855	101.077	86.977
75	187.520	174.783	161.315	147.169	133.116	118.239	103.797	89.506	75.017	61.358
80	159.807	147.262	133.945	120.089	106.181	91.936	77.836	63.493	49.590	37.045
85	132.049	119.793	106.813	93.444	80.121	66.265	52.409	40.646	26.349	13.810
90	104.336	92.910	80.463	67.628	54.938	41.859	28.733	16.095	4.037	0.244
95	76.867	66.021	54.305	42.247	30.340	17.992	5.545	0.244	0.244	0.244
100	50.466	40.304	29.365	18.038	6.902	0.342	0.244	0.244	0.244	0.244
105	25.282	15.753	5.638	0.435	0.244	0.244	0.244	0.244	0.244	0.244
110	2.482	0.290	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
115	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
120	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
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	361.914	361.914	361.914	361.914	361.914	361.914	361.914	361.914	361.914	361.914
5	357.680	355.981	354.618	353.261	351.851	350.535	349.322	348.104	347.130	346.161
10	349.027	345.477	342.270	339.109	335.901	333.181	330.455	327.978	325.792	323.652
15	336.533	331.383	326.372	321.703	317.040	312.661	308.821	305.028	301.675	298.659
20	320.879	314.070	307.655	301.478	295.742	290.151	284.803	279.896	275.662	271.631
25	302.209	294.188	286.358	279.021	271.776	265.019	258.645	252.665	247.416	242.602
30	281.497	271.921	263.024	254.371	246.007	238.328	230.886	224.129	218.150	212.512
35	258.309	247.706	237.788	228.213	218.880	210.273	202.055	194.718	188.007	181.784
40	233.659	222.088	211.248	200.987	190.971	181.639	172.788	164.668	157.424	150.765
45	207.599	195.350	183.970	172.933	162.191	152.320	142.987	134.334	126.794	119.747
50	180.908	168.026	156.066	144.588	133.406	122.908	113.425	104.528	96.848	89.796
55	154.216	140.946	128.598	116.829	105.357	94.755	85.179	76.183	68.307	61.016
60	126.794	113.326	100.491	88.775	77.645	67.239	57.664	48.471	40.791	33.547
65	99.569	86.687	73.950	61.938	50.901	40.890	31.163	22.318	14.587	7.586
70	73.318	60.627	48.134	36.853	25.474	15.463	6.467	1.166	0.974	1.067
75	48.424	35.931	23.774	12.638	2.819	0.000	0.000	0.000	0.000	0.000
80	24.650	12.348	2.332	0.534	0.586	0.000	0.000	0.000	0.000	0.000
85	2.917	0.389	0.389	0.487	0.534	0.000	0.000	0.000	0.000	0.000
90	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
95	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
100	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
105	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
110	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
115	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
120	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244	0.244
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
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_A3_BL.IES

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	361.914	361.914	361.914	361.914	361.914	361.914	361.914
5	345.332	344.653	344.068	343.534	343.244	343.047	342.954
10	321.900	320.392	319.081	318.107	317.376	316.987	316.796
15	296.084	293.845	291.902	290.348	289.327	288.695	288.399
20	268.030	265.164	262.583	260.693	259.330	258.454	258.164
25	238.421	234.871	231.809	229.477	227.824	226.902	226.461
30	207.698	203.661	200.158	197.635	195.785	194.619	194.277
35	176.436	171.964	168.171	165.201	163.160	161.849	161.414
40	144.977	140.215	136.080	132.971	130.784	129.375	128.934
45	113.721	108.709	104.383	101.123	98.890	97.579	97.138
50	83.572	78.422	74.043	70.737	68.359	66.897	66.410
55	54.694	49.544	45.408	42.004	39.672	38.164	37.729
60	27.370	22.220	17.893	14.488	12.157	10.794	10.307
65	2.674	1.311	1.363	1.363	1.363	1.363	1.363
70	1.166	1.166	1.264	1.264	1.311	1.363	1.363
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.244	0.244	0.244	0.244	0.244	0.244	0.244
95	0.244	0.244	0.244	0.244	0.244	0.244	0.244
100	0.244	0.244	0.244	0.244	0.244	0.244	0.244
105	0.244	0.244	0.244	0.244	0.244	0.244	0.244
110	0.244	0.244	0.244	0.244	0.244	0.244	0.244
115	0.244	0.244	0.244	0.244	0.244	0.244	0.244
120	0.244	0.244	0.244	0.244	0.244	0.244	0.244
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	132.50	N.A.	11.10
0-30	280.79	N.A.	23.50
0-40	458.63	N.A.	38.40
0-60	811.01	N.A.	67.90
0-80	1054.27	N.A.	88.30
0-90	1127.42	N.A.	94.40
10-90	1093.13	N.A.	91.50
20-40	326.13	N.A.	27.30
20-50	510.13	N.A.	42.70
40-70	490.37	N.A.	41.10
60-80	243.26	N.A.	20.40
70-80	105.27	N.A.	8.80
80-90	73.15	N.A.	6.10
90-110	62.55	N.A.	5.20
90-120	66.59	N.A.	5.60
90-130	66.66	N.A.	5.60
90-150	66.66	N.A.	5.60
90-180	66.66	N.A.	5.60
110-180	4.11	N.A.	0.30
0-180	1194.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.30
10-20	98.21
20-30	148.29
30-40	177.84
40-50	184.00
50-60	168.38
60-70	137.99
70-80	105.27
80-90	73.15
90-100	43.38
100-110	19.17
110-120	4.04
120-130	0.07
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

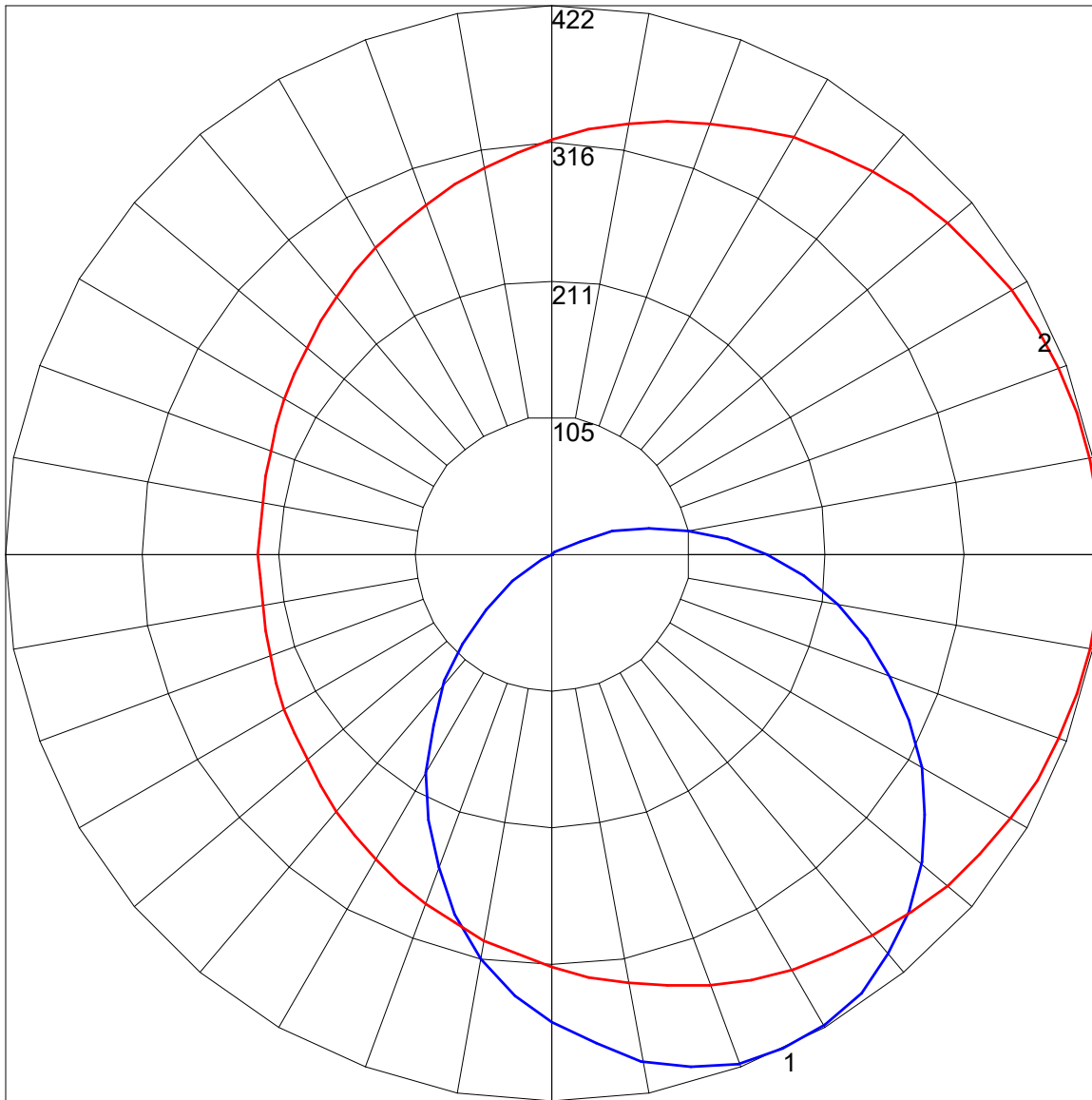
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	105	100	95	90	102	97	92	88	92	88	84	87	84	81	82	80	77	75
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	64	61
3	87	75	66	60	84	73	65	59	69	62	57	66	60	55	63	58	53	51
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	56	50	46	43
5	73	59	50	43	70	58	49	42	55	47	41	52	46	41	50	44	40	37
6	67	53	44	37	65	52	43	37	50	42	36	47	41	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	38	32	43	36	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	40	33	28	38	32	28	26
9	54	40	32	26	52	40	32	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	27	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 421.811 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.)