

IES Report

ZipTwo® | 707 | Square 3519, Single Side Diffuse | 80 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-35-FA-X-WH-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	43	45	46	46
Total Lumens, 4' rail length (1219mm)	1696	1749	1785	1785
Lumens per foot (305mm)	424	437	446	446
Input Power (W), 4' rail length (1219mm)	39.6	39.6	39.6	39.6
Watts per foot (305mm)	9.9	9.9	9.9	9.9
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_HO_35_FA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011214 (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-HO-35-FA-WH

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

[MORE] square 3519, single side diffuse lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1785
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	45
Total Luminaire Watts	39.55
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	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2	2	8
55	3	2	8
65	5	3	8
75	9	6	11
85	29	19	14

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_FA_WH.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	9.257	9.257	9.257	9.257	9.257	9.257	9.257	9.257	9.257	9.257
5	1.462	1.462	1.462	1.462	1.462	1.601	1.601	1.757	1.757	1.757
10	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.462
15	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	1.166
20	0.592	0.592	0.731	0.731	0.731	0.731	0.731	0.731	0.870	0.870
25	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.731	0.731	0.731
30	1.166	1.166	1.166	1.027	1.027	1.027	1.027	0.870	0.870	0.870
35	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.027	1.027	1.027
40	1.462	1.462	1.462	1.462	1.462	1.305	1.305	1.305	1.166	1.027
45	1.757	1.757	1.757	1.601	1.601	1.601	1.462	1.305	1.305	1.305
50	2.036	1.897	1.897	1.757	1.757	1.757	1.601	1.601	1.462	1.305
55	2.036	2.036	2.036	2.036	2.036	1.897	1.897	1.601	1.601	1.462
60	2.332	2.332	2.332	2.192	2.192	2.036	1.897	1.897	1.601	1.601
65	2.332	2.332	2.332	2.332	2.332	2.192	2.036	1.897	1.897	1.601
70	2.627	2.627	2.488	2.488	2.332	2.332	2.192	2.036	1.897	1.897
75	2.627	2.627	2.627	2.627	2.488	2.488	2.332	2.192	1.897	1.897
80	2.923	2.767	2.767	2.627	2.627	2.488	2.488	2.192	2.192	1.897
85	2.923	2.923	2.923	2.767	2.627	2.627	2.488	2.192	2.192	1.897
90	2.923	2.923	2.923	2.923	2.767	2.627	2.488	2.488	2.192	2.036
95	2.923	2.923	3.062	3.062	2.923	2.767	2.767	2.488	2.332	2.192
100	3.497	3.497	3.358	3.358	3.358	3.202	3.202	2.923	2.767	2.488
105	3.793	3.793	3.654	3.654	3.793	3.654	3.497	3.202	2.923	2.923
110	4.089	4.089	3.932	3.932	3.932	3.793	3.654	3.497	3.358	3.062
115	4.663	4.524	4.228	4.385	4.385	4.228	4.089	3.793	3.654	3.497
120	4.959	4.820	4.663	4.663	4.524	4.524	4.385	3.932	3.932	3.793
125	5.255	5.098	4.959	4.820	4.820	4.663	4.663	4.228	4.228	4.089
130	5.255	5.255	5.098	4.959	4.959	4.959	4.959	4.524	4.089	4.089
135	5.255	5.551	5.255	5.098	5.255	5.255	4.820	4.385	4.385	4.385
140	5.551	5.551	5.551	5.394	5.551	4.959	4.959	4.524	4.663	4.663
145	5.829	5.829	5.829	5.690	4.959	5.255	5.098	4.820	4.820	5.098
150	5.829	5.986	6.125	5.394	5.394	5.394	5.394	5.255	5.551	5.690
155	6.125	6.125	5.986	5.551	5.551	5.551	6.125	5.986	5.829	5.690
160	6.125	6.125	5.394	5.690	5.690	6.421	6.421	5.690	5.829	5.690
165	5.829	5.098	5.098	5.551	6.560	6.716	6.421	5.986	5.829	5.829
170	5.829	4.959	5.098	6.264	6.421	6.560	6.421	6.264	6.264	6.560
175	4.089	5.551	6.716	7.586	7.882	8.021	8.317	8.317	9.187	9.918
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	9.257	9.257	9.257	9.257	9.257	9.257	9.257	9.257	9.257	9.257
5	2.036	2.192	2.488	2.767	3.358	4.089	5.394	6.856	8.613	10.788
10	1.462	1.462	1.462	1.757	1.757	2.192	3.062	4.959	8.456	13.276
15	1.166	1.166	1.305	1.462	1.462	1.757	2.036	3.497	8.456	15.904
20	0.870	1.027	1.166	1.166	1.305	1.462	1.757	2.627	8.021	18.670
25	0.731	0.870	0.870	1.027	1.166	1.305	1.462	2.036	7.882	21.141
30	0.731	0.731	0.731	0.870	1.027	1.166	1.305	1.757	7.447	23.490
35	0.870	0.870	0.731	0.731	0.870	1.027	1.166	1.462	7.291	25.665
40	1.027	1.027	0.870	0.731	0.731	0.870	1.166	1.305	6.856	27.718
45	1.027	1.027	1.027	0.870	0.731	0.870	1.027	1.166	6.421	29.615
50	1.305	1.027	1.027	1.027	0.731	0.731	0.870	1.166	5.690	31.946
55	1.305	1.305	1.027	1.027	0.731	0.731	0.870	1.027	5.255	32.521
60	1.305	1.305	1.027	1.027	1.027	0.731	0.731	0.870	4.524	33.843

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_FA_WH.IES

CANDELA TABULATION - (Cont.)

65	1.601	1.305	1.305	1.027	1.027	0.731	0.731	0.870	3.932	34.852
70	1.601	1.462	1.305	1.027	1.027	0.731	0.731	0.731	4.089	35.444
75	1.601	1.601	1.305	1.166	1.027	1.027	0.731	0.731	3.358	35.879
80	1.757	1.601	1.305	1.166	1.027	1.027	0.731	0.731	2.036	35.879
85	1.897	1.601	1.462	1.305	1.027	1.027	0.731	0.731	1.462	36.905
90	1.897	1.601	1.462	1.305	1.027	1.027	0.731	0.731	0.731	36.314
95	1.897	1.757	1.601	1.462	1.166	1.027	1.027	0.731	0.870	36.035
100	2.332	2.036	1.897	1.601	1.462	1.166	1.027	1.027	1.462	36.175
105	2.627	2.332	2.192	1.897	1.601	1.462	1.305	1.305	2.192	31.651
110	3.062	2.767	2.488	2.192	2.036	1.897	1.897	1.897	3.202	27.857
115	3.358	3.062	2.923	2.767	2.627	2.627	2.767	2.488	4.385	24.499
120	3.654	3.654	3.497	3.358	3.358	3.358	3.202	3.202	5.551	21.298
125	3.793	3.654	3.654	3.654	3.654	3.654	3.654	3.793	6.264	18.079
130	3.932	4.089	3.932	3.932	3.932	3.932	3.793	4.228	6.995	16.774
135	4.385	4.385	4.228	4.228	4.228	4.228	4.089	4.663	7.447	15.608
140	4.663	4.820	4.524	4.385	4.385	4.228	4.385	5.551	8.021	14.581
145	5.394	4.959	4.820	4.663	4.524	4.524	4.959	6.421	8.613	13.276
150	5.551	5.394	5.255	4.959	5.098	5.255	5.829	8.161	10.057	13.711
155	5.690	5.551	5.551	5.394	5.255	5.829	7.447	9.918	11.380	14.146
160	5.690	5.690	5.551	5.690	5.986	6.856	9.048	11.223	12.406	14.303
165	5.690	5.829	5.986	6.421	7.291	8.891	10.945	12.406	13.415	14.303
170	6.716	6.995	7.726	8.752	10.057	11.519	12.841	13.850	14.442	14.877
175	10.353	11.084	11.815	12.685	13.415	14.146	14.738	15.173	15.469	15.904
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	9.257	9.257	9.257	9.257	9.257	9.257	9.257	9.257	9.257	9.257
5	12.841	15.016	17.365	19.401	21.593	23.490	25.822	27.562	29.180	30.624
10	18.374	23.333	28.449	32.816	37.480	41.864	46.667	50.617	54.253	57.472
15	23.768	31.511	38.941	46.093	53.522	61.544	68.260	74.977	80.945	86.200
20	29.180	39.376	49.590	59.369	69.861	79.483	91.019	100.346	108.959	116.824
25	33.982	46.963	60.239	73.080	86.791	102.103	114.788	127.194	138.417	149.205
30	39.237	54.845	71.027	87.070	104.139	122.948	139.148	154.895	169.337	183.483
35	44.057	62.431	81.832	101.216	121.783	141.184	164.378	183.640	201.422	219.066
40	48.720	70.018	92.620	115.379	139.444	162.342	190.478	212.941	234.239	255.101
45	53.244	77.152	103.112	128.934	156.948	183.483	216.004	242.417	267.351	292.007
50	57.176	84.007	113.030	142.071	173.861	203.754	241.094	271.283	300.167	328.895
55	60.830	90.428	122.078	154.460	190.930	229.576	265.019	298.706	331.226	364.060
60	63.597	96.413	131.126	170.798	210.766	248.681	286.456	325.258	362.442	397.016
65	66.364	101.512	138.713	176.923	224.182	265.750	306.727	348.731	389.429	427.501
70	68.556	105.740	147.169	185.084	229.280	279.601	323.066	369.019	411.301	451.704
75	70.296	109.237	150.371	192.374	238.763	283.098	336.916	385.497	429.832	472.271
80	72.923	113.187	154.460	198.064	253.501	300.307	347.861	396.424	443.404	487.444
85	73.654	114.927	156.948	201.857	250.873	297.836	354.856	404.167	450.695	496.787
90	73.654	115.519	158.114	204.781	251.308	305.266	357.483	407.230	454.192	499.989
95	73.654	114.057	159.419	204.920	251.447	307.458	356.039	407.230	453.322	499.119
100	73.515	113.761	157.226	203.615	249.707	306.431	355.882	403.280	448.798	493.429
105	73.219	112.595	155.486	199.230	247.219	301.194	348.000	395.258	439.454	484.242
110	70.453	110.995	152.267	195.002	241.390	284.995	338.534	385.497	427.796	467.747
115	63.597	109.394	149.797	189.173	233.508	277.130	325.989	370.463	410.292	448.363
120	54.549	103.408	142.506	181.882	224.025	271.440	311.547	352.089	390.752	425.900
125	47.989	87.226	128.638	165.109	204.920	243.861	291.711	330.652	366.392	398.773
130	41.429	71.183	112.891	147.604	183.344	224.025	259.765	297.836	335.907	368.288
135	35.305	62.431	89.558	129.369	162.046	192.096	229.141	261.226	293.173	326.859

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_FA_WH.IES

CANDELA TABULATION - (Cont.)

140	30.485	52.217	73.811	101.668	140.018	168.310	199.387	226.652	253.205	280.766
145	26.692	41.864	61.996	80.510	107.636	144.107	168.902	194.723	214.994	237.301
150	25.387	38.071	51.487	69.565	86.200	104.731	138.991	164.969	181.447	195.593
155	23.194	34.713	45.797	56.585	72.193	86.339	101.807	120.338	138.991	154.164
160	20.863	30.189	39.672	49.016	57.316	66.503	76.873	87.957	103.408	109.968
165	18.235	24.656	32.816	39.672	46.232	53.522	58.203	67.234	72.784	79.779
170	16.478	19.975	24.360	29.893	34.852	39.237	43.030	47.833	51.487	54.984
175	16.043	16.634	18.079	19.836	22.028	24.360	26.552	29.615	31.216	32.521
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	9.257	9.257	9.257	9.257	9.257	9.257	9.257
5	31.651	32.816	33.686	34.417	34.852	35.148	35.009
10	60.378	62.710	64.902	66.659	67.669	68.399	68.556
15	90.863	95.248	98.745	101.512	103.565	104.574	105.009
20	123.836	130.100	135.215	139.287	142.071	143.950	144.403
25	158.827	167.005	174.000	179.551	183.483	185.971	186.702
30	195.733	206.242	215.273	222.581	227.540	230.881	231.907
35	234.100	247.219	258.460	267.647	274.067	278.139	279.757
40	273.772	289.675	303.230	314.609	322.770	327.886	329.051
45	314.018	333.123	349.322	362.877	372.952	378.641	380.973
50	353.846	376.153	395.415	411.458	422.977	430.267	432.599
55	392.492	418.313	440.185	458.716	472.132	480.588	483.650
60	429.832	458.716	483.790	504.948	519.686	529.604	532.370
65	463.519	495.326	523.027	545.925	562.559	573.347	577.001
70	490.506	524.645	553.946	578.463	594.349	605.433	608.495
75	511.664	548.552	580.064	602.371	620.902	632.855	636.214
80	529.447	565.918	596.107	621.337	640.007	652.413	656.050
85	538.930	575.975	606.320	632.125	650.951	662.609	665.968
90	542.723	579.333	609.226	635.344	653.718	665.237	669.465
95	540.827	577.436	606.895	632.420	651.091	662.174	666.263
100	534.563	570.285	598.003	623.372	641.903	652.987	656.641
105	522.887	557.165	583.126	608.791	626.156	637.379	640.598
110	505.679	538.634	566.648	585.023	604.128	614.638	617.543
115	482.780	514.727	541.853	562.994	578.602	586.763	590.121
120	459.151	488.035	512.969	532.805	547.091	556.435	559.201
125	429.241	455.497	478.396	496.057	509.315	517.928	520.399
130	395.850	419.323	440.046	456.089	468.043	475.768	477.821
135	359.815	380.973	399.347	413.494	424.003	430.702	432.599
140	309.946	339.265	356.474	368.723	378.050	383.740	385.340
145	260.356	284.420	310.955	322.492	330.356	335.176	336.638
150	213.672	232.046	252.770	274.642	281.636	285.586	286.752
155	166.709	181.012	196.620	214.994	231.037	234.674	235.700
160	114.788	119.312	130.256	143.811	162.777	171.825	172.695
165	85.173	88.688	89.401	94.952	103.408	120.182	121.348
170	56.741	57.907	56.306	52.513	54.984	63.440	72.628
175	33.251	33.547	33.408	31.216	27.718	27.127	35.009
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_FA_WH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11.87	N.A.	0.70
0-30	39.49	N.A.	2.20
0-40	93.44	N.A.	5.20
0-60	307.99	N.A.	17.30
0-80	664.29	N.A.	37.20
0-90	872.21	N.A.	48.90
10-90	870.56	N.A.	48.80
20-40	81.57	N.A.	4.60
20-50	169.56	N.A.	9.50
40-70	378.53	N.A.	21.20
60-80	356.30	N.A.	20.00
70-80	192.31	N.A.	10.80
80-90	207.92	N.A.	11.60
90-110	405.06	N.A.	22.70
90-120	576.61	N.A.	32.30
90-130	713.76	N.A.	40.00
90-150	870.71	N.A.	48.80
90-180	912.81	N.A.	51.10
110-180	507.75	N.A.	28.40
0-180	1785.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.64
10-20	10.22
20-30	27.62
30-40	53.95
40-50	87.99
50-60	126.56
60-70	163.98
70-80	192.31
80-90	207.92
90-100	208.84
100-110	196.22
110-120	171.55
120-130	137.16
130-140	97.17
140-150	59.77
150-160	29.88
160-170	10.46
170-180	1.76

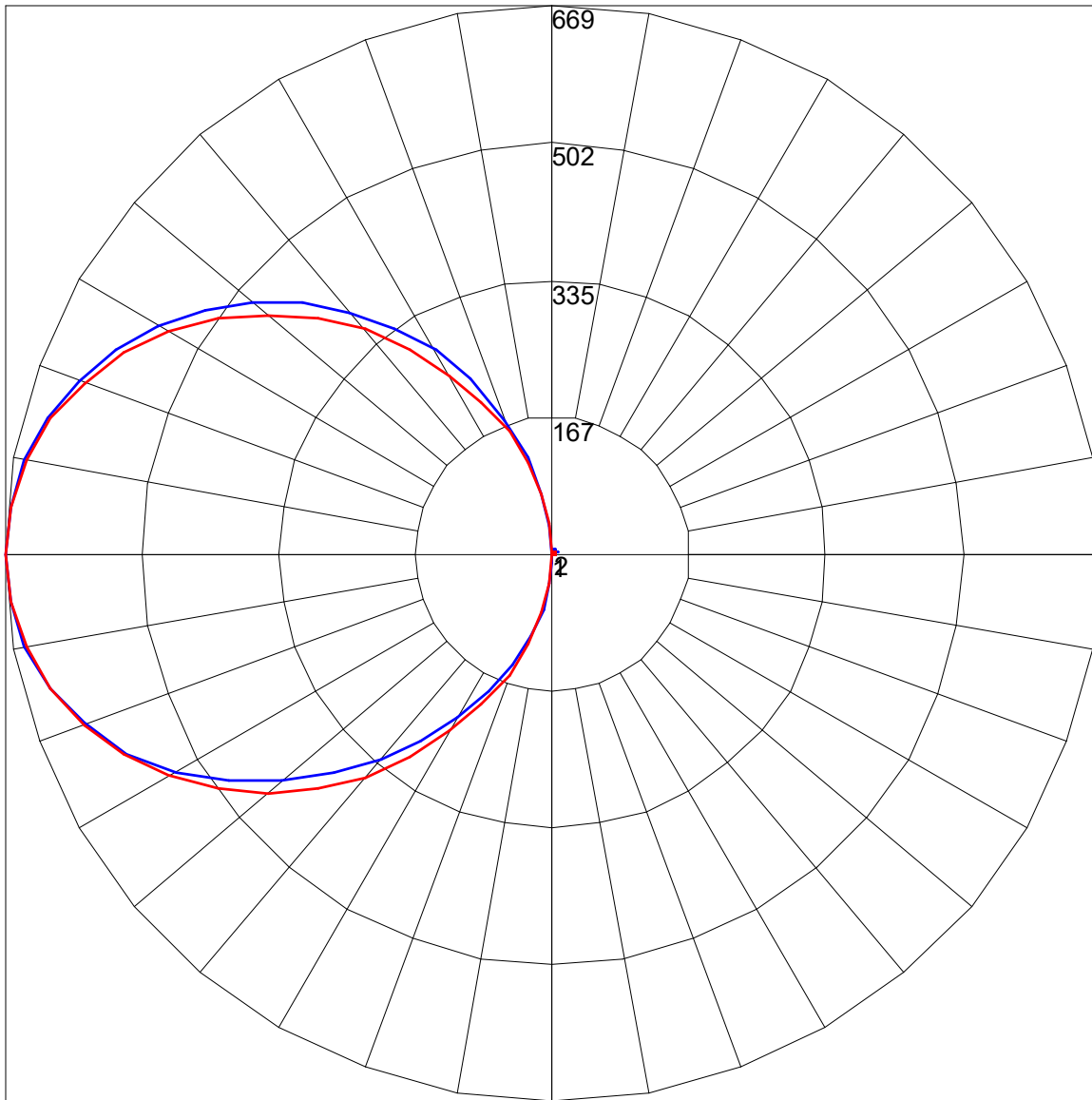
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_FA_WH.IES

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
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	92	85	78	73	83	77	72	67	64	59	55	51	48	45	39	37	35	29
2	81	71	62	55	73	64	57	50	52	46	41	41	37	33	31	28	25	20
3	72	60	51	43	65	55	46	39	44	38	32	35	30	25	26	22	19	14
4	65	52	42	35	59	47	38	32	38	31	26	30	24	20	22	18	14	10
5	60	46	36	29	54	41	33	26	33	26	21	26	21	16	19	15	12	8
6	54	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	6
7	50	36	27	20	45	33	24	19	27	20	15	21	15	11	15	11	8	5
8	46	32	24	18	42	29	22	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	8	13	9	6	3
10	40	27	19	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 669.465 Located At Horizontal Angle = 180, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)