

IES Report

ZipTwo® | 707 | Square 3536, Single Side Diffuse | 80 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	78	80	82	82
Total Lumens, 4' rail length (1219mm)	1154	1191	1215	1215
Lumens per foot (305mm)	289	298	304	304
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_SA_WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011217 (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-SA-WH

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

[MORE] square 3536, single side side diffuse lens, low output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1215
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	14.89
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	Vertical Rectangle
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.11 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	38	222
55	0	39	138
65	0	41	87
75	0	44	44
85	0	46	36

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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	8.973	8.973	8.973	8.973	8.973	8.973	8.973	8.973	8.973	8.973
5	0.487	0.487	0.534	0.534	0.534	0.586	0.632	0.632	0.632	0.679
10	0.290	0.342	0.389	0.389	0.389	0.389	0.435	0.435	0.487	0.487
15	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389
20	0.389	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.389
25	0.487	0.534	0.534	0.534	0.534	0.534	0.534	0.487	0.487	0.435
30	0.679	0.679	0.679	0.679	0.632	0.632	0.632	0.586	0.534	0.534
35	0.777	0.777	0.777	0.777	0.777	0.731	0.731	0.632	0.632	0.632
40	0.974	0.974	0.922	0.922	0.876	0.829	0.829	0.777	0.731	0.679
45	1.067	1.067	1.067	1.067	1.021	0.974	0.922	0.876	0.829	0.777
50	1.166	1.166	1.166	1.166	1.119	1.119	1.021	1.021	0.922	0.876
55	1.264	1.311	1.311	1.264	1.264	1.218	1.119	1.119	1.021	0.922
60	1.462	1.409	1.409	1.363	1.363	1.311	1.218	1.218	1.119	1.021
65	1.554	1.508	1.508	1.462	1.409	1.409	1.311	1.264	1.218	1.067
70	1.554	1.554	1.554	1.554	1.508	1.462	1.409	1.311	1.218	1.166
75	1.653	1.653	1.653	1.653	1.607	1.508	1.508	1.409	1.311	1.218
80	1.752	1.752	1.752	1.699	1.653	1.607	1.508	1.409	1.363	1.264
85	1.752	1.752	1.752	1.752	1.699	1.653	1.607	1.508	1.409	1.311
90	1.850	1.850	1.850	1.798	1.752	1.699	1.607	1.508	1.462	1.363
95	1.850	1.850	1.850	1.850	1.798	1.699	1.699	1.607	1.508	1.363
100	1.943	1.943	1.943	1.897	1.850	1.798	1.699	1.607	1.554	1.462
105	2.042	2.042	1.995	1.943	1.897	1.897	1.798	1.699	1.607	1.508
110	2.042	2.042	2.042	2.042	1.995	1.897	1.798	1.752	1.653	1.554
115	2.140	2.088	2.088	2.042	1.995	1.943	1.897	1.798	1.699	1.607
120	2.140	2.140	2.088	2.042	1.995	1.995	1.897	1.798	1.699	1.607
125	2.140	2.140	2.088	2.042	1.995	1.943	1.897	1.798	1.699	1.653
130	2.042	2.042	2.042	1.995	1.995	1.897	1.850	1.798	1.653	1.607
135	2.042	1.995	1.943	1.943	1.897	1.850	1.798	1.699	1.699	1.653
140	1.943	1.897	1.897	1.850	1.850	1.752	1.752	1.752	1.699	1.653
145	1.850	1.850	1.798	1.798	1.699	1.699	1.752	1.798	1.752	1.752
150	1.752	1.752	1.752	1.607	1.653	1.699	1.752	1.850	1.850	1.850
155	1.653	1.653	1.607	1.508	1.607	1.699	1.798	1.850	1.850	1.798
160	1.554	1.554	1.363	1.409	1.554	1.752	1.850	1.798	1.752	1.699
165	1.363	1.218	1.264	1.409	1.699	1.752	1.850	1.995	2.187	2.482
170	1.653	1.943	1.995	2.674	2.819	3.062	3.260	3.503	3.648	3.840
175	2.529	2.819	3.306	3.741	3.741	3.840	3.840	3.892	3.938	3.938
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	8.973	8.973	8.973	8.973	8.973	8.973	8.973	8.973	8.973	8.973
5	0.679	0.876	1.264	1.897	2.772	3.892	5.394	7.099	8.851	10.747
10	0.534	0.586	0.586	0.632	0.679	0.829	2.140	4.860	8.799	13.224
15	0.389	0.487	0.487	0.586	0.586	0.586	0.731	2.871	8.509	15.364
20	0.389	0.389	0.389	0.435	0.487	0.586	0.632	1.462	8.219	17.359
25	0.435	0.435	0.435	0.389	0.435	0.534	0.586	0.731	7.975	19.447
30	0.534	0.487	0.435	0.435	0.435	0.435	0.534	0.632	7.488	21.100
35	0.534	0.534	0.534	0.435	0.435	0.435	0.487	0.586	7.001	22.168
40	0.632	0.586	0.534	0.534	0.435	0.435	0.435	0.586	7.047	23.629
45	0.679	0.632	0.586	0.534	0.487	0.435	0.435	0.534	6.421	24.604
50	0.777	0.679	0.632	0.586	0.534	0.435	0.435	0.487	5.301	25.526
55	0.876	0.777	0.679	0.586	0.534	0.487	0.435	0.435	4.617	26.982
60	0.922	0.829	0.731	0.679	0.586	0.487	0.435	0.435	3.840	27.370

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CANDELA TABULATION - (Cont.)

65	0.974	0.876	0.777	0.679	0.586	0.534	0.435	0.435	3.207	27.614
70	1.067	0.974	0.876	0.731	0.632	0.586	0.487	0.435	2.482	27.759
75	1.067	0.974	0.876	0.777	0.679	0.586	0.487	0.435	1.752	27.614
80	1.166	1.021	0.876	0.777	0.679	0.586	0.487	0.435	1.943	26.494
85	1.166	1.067	0.922	0.777	0.679	0.586	0.487	0.435	1.462	25.961
90	1.218	1.067	0.974	0.829	0.679	0.586	0.534	0.435	0.974	25.282
95	1.264	1.166	0.974	0.876	0.777	0.679	0.586	0.487	0.731	25.381
100	1.363	1.166	1.067	0.876	0.777	0.679	0.586	0.534	0.731	24.604
105	1.363	1.264	1.119	0.974	0.876	0.731	0.632	0.586	0.829	23.386
110	1.462	1.311	1.166	0.974	0.876	0.777	0.731	0.679	1.021	20.903
115	1.462	1.311	1.218	1.067	0.922	0.876	0.777	0.777	1.218	16.385
120	1.508	1.409	1.218	1.119	1.021	0.876	0.829	1.021	1.409	12.737
125	1.508	1.409	1.264	1.166	1.067	0.974	0.922	1.264	1.607	10.307
130	1.508	1.409	1.311	1.218	1.119	1.067	1.119	1.508	1.752	8.654
135	1.554	1.508	1.409	1.264	1.166	1.119	1.409	1.699	1.897	7.343
140	1.653	1.607	1.462	1.363	1.218	1.311	1.752	1.897	2.088	6.270
145	1.752	1.607	1.508	1.363	1.311	1.699	1.995	2.042	2.187	5.156
150	1.752	1.653	1.554	1.554	1.798	2.384	2.332	2.384	2.575	5.058
155	1.752	1.653	1.798	2.088	2.575	2.720	2.674	2.772	2.964	5.005
160	1.850	2.088	2.529	2.964	3.062	2.964	3.016	3.115	3.306	4.669
165	2.871	3.260	3.451	3.405	3.306	3.306	3.405	3.503	3.596	4.228
170	3.892	3.840	3.741	3.695	3.741	3.741	3.840	3.938	4.037	4.280
175	3.892	3.892	3.938	3.985	4.037	4.135	4.228	4.228	4.327	4.373
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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	8.973	8.973	8.973	8.973	8.973	8.973	8.973	8.973	8.973	8.973
5	12.638	14.488	16.339	18.229	19.935	21.634	23.241	24.650	26.059	27.324
10	17.406	21.634	25.862	29.853	33.889	37.584	41.226	44.828	47.937	50.854
15	21.930	28.391	35.055	41.569	47.792	53.818	60.094	65.633	70.789	75.649
20	26.257	35.055	44.097	53.186	61.840	70.348	78.712	87.029	94.418	101.517
25	30.485	41.569	53.186	64.908	76.235	87.365	98.838	109.388	119.213	128.644
30	34.278	49.636	61.648	76.038	90.039	104.093	117.653	131.271	143.712	155.527
35	37.920	53.430	70.058	86.588	104.139	120.669	136.955	153.195	168.217	183.147
40	40.745	59.073	78.080	97.283	117.705	136.909	155.916	175.607	192.676	208.812
45	47.113	64.078	85.376	106.714	129.856	151.589	173.420	193.842	215.035	233.902
50	48.036	69.182	91.988	115.664	141.236	165.352	189.416	212.703	235.312	256.992
55	49.010	73.266	97.916	123.488	151.345	177.700	198.215	229.523	254.028	277.803
60	50.663	76.479	102.631	130.877	158.885	186.934	214.113	243.136	269.393	294.965
65	52.072	79.153	107.544	136.375	165.834	194.567	223.984	254.417	281.984	308.775
70	53.093	80.266	109.829	139.774	171.378	199.091	233.705	263.459	291.949	319.516
75	53.627	81.531	111.870	142.645	175.995	201.475	237.742	269.103	298.126	327.149
80	52.797	82.163	112.938	144.252	178.135	202.930	240.706	273.331	302.354	329.776
85	52.554	82.116	113.280	144.733	178.866	207.211	241.680	274.352	303.282	330.652
90	51.922	82.360	112.503	143.956	177.944	202.739	240.416	271.823	300.753	328.611
95	51.875	81.194	111.093	142.257	175.804	201.330	237.498	268.470	296.908	324.284
100	50.709	79.489	108.907	140.406	171.425	199.236	231.762	262.926	290.835	317.428
105	49.201	76.479	106.865	136.619	166.709	196.562	226.270	255.635	282.617	308.432
110	47.450	73.851	102.341	131.028	161.803	190.727	219.124	246.541	272.356	297.105
115	45.942	70.789	98.014	125.437	154.895	182.364	203.319	235.410	260.739	283.492
120	42.734	66.654	92.858	118.772	146.537	172.446	197.780	223.109	246.106	267.397
125	32.184	58.777	83.381	107.399	133.992	159.662	184.846	203.464	229.674	249.458
130	26.935	50.663	73.950	95.485	118.726	141.236	164.233	188.541	210.760	229.819
135	21.002	43.999	63.643	84.013	104.429	123.830	143.567	164.181	184.457	205.071

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CANDELA TABULATION - (Cont.)

140	16.971	33.547	53.627	72.001	90.480	107.010	123.876	141.189	158.009	175.415
145	13.955	25.039	42.201	57.855	75.458	94.221	107.497	119.892	133.313	147.361
150	12.592	21.245	32.236	46.626	60.187	76.282	92.568	103.652	112.549	121.643
155	10.695	18.229	26.106	35.345	47.357	57.855	70.255	83.816	92.469	99.812
160	8.799	14.976	21.245	27.857	33.837	41.371	50.901	59.264	67.727	74.141
165	6.757	10.939	16.188	21.002	25.769	29.951	34.179	38.263	42.589	48.714
170	5.249	7.291	10.359	13.903	17.017	20.033	22.365	25.184	27.614	29.075
175	4.570	4.959	5.736	6.711	7.923	9.529	10.892	12.203	13.079	14.100
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	8.973	8.973	8.973	8.973	8.973	8.973	8.973
5	28.391	29.464	30.195	30.775	31.163	31.361	31.407
10	53.528	55.767	57.611	59.166	60.140	60.726	60.871
15	80.023	83.723	86.878	89.407	91.060	92.034	92.278
20	107.834	113.181	117.850	121.446	123.784	125.193	125.727
25	137.100	144.298	150.568	155.481	158.787	160.828	161.414
30	166.274	175.415	183.338	189.515	193.210	196.028	196.806
35	193.546	206.236	215.574	223.207	228.555	232.052	233.172
40	223.839	237.545	248.779	258.164	264.776	268.958	270.216
45	251.111	266.864	280.186	290.493	297.981	302.888	304.251
50	276.880	293.944	308.775	320.293	328.854	334.248	336.046
55	299.390	318.107	334.689	347.571	357.147	362.935	364.832
60	318.107	338.088	355.639	369.692	379.558	385.636	387.875
65	333.129	354.183	372.557	387.196	397.352	403.576	405.861
70	344.752	366.386	384.813	399.933	410.918	417.484	419.671
75	351.944	373.920	392.590	407.612	418.453	425.360	427.547
80	354.716	377.470	396.239	411.359	422.246	429.154	431.242
85	355.447	378.201	397.161	411.649	422.391	429.345	431.729
90	353.939	375.475	394.388	408.778	419.427	426.184	428.324
95	349.079	370.371	388.896	403.332	413.644	420.106	422.298
100	341.690	362.448	380.486	394.829	404.794	411.017	413.059
105	331.818	351.944	369.495	383.450	393.176	399.249	401.099
110	319.568	338.819	355.204	368.619	378.491	384.470	386.321
115	304.784	323.066	338.627	351.265	360.406	366.287	368.039
120	286.943	303.961	319.418	331.041	339.404	345.042	346.649
125	267.542	283.881	297.639	308.189	316.065	321.268	322.724
130	246.836	261.226	273.864	283.637	290.737	295.452	296.763
135	223.596	236.576	247.950	256.847	263.123	267.252	268.470
140	192.577	210.273	220.238	228.166	233.705	237.208	238.421
145	162.093	177.555	192.821	198.801	203.516	206.532	207.402
150	132.872	144.542	157.719	170.015	174.099	176.627	177.358
155	105.015	113.477	123.006	135.500	142.790	144.733	145.365
160	79.396	82.847	89.552	97.724	109.684	112.160	112.793
165	53.186	56.011	57.223	61.747	67.727	76.328	76.717
170	30.433	31.651	31.361	30.195	32.625	37.973	43.657
175	14.778	14.976	15.219	14.291	12.882	13.079	18.380
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	10.41	N.A.	0.90
0-30	34.20	N.A.	2.80
0-40	79.28	N.A.	6.50
0-60	246.56	N.A.	20.30
0-80	497.86	N.A.	41.00
0-90	636.55	N.A.	52.40
10-90	635.09	N.A.	52.30
20-40	68.87	N.A.	5.70
20-50	139.58	N.A.	11.50
40-70	285.70	N.A.	23.50
60-80	251.30	N.A.	20.70
70-80	132.88	N.A.	10.90
80-90	138.69	N.A.	11.40
90-110	261.67	N.A.	21.50
90-120	370.02	N.A.	30.50
90-130	455.68	N.A.	37.50
90-150	552.97	N.A.	45.50
90-180	578.35	N.A.	47.60
110-180	316.68	N.A.	26.10
0-180	1214.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.46
10-20	8.95
20-30	23.79
30-40	45.08
40-50	70.71
50-60	96.57
60-70	118.42
70-80	132.88
80-90	138.69
90-100	136.01
100-110	125.66
110-120	108.35
120-130	85.66
130-140	60.40
140-150	36.89
150-160	18.46
160-170	6.11
170-180	0.80

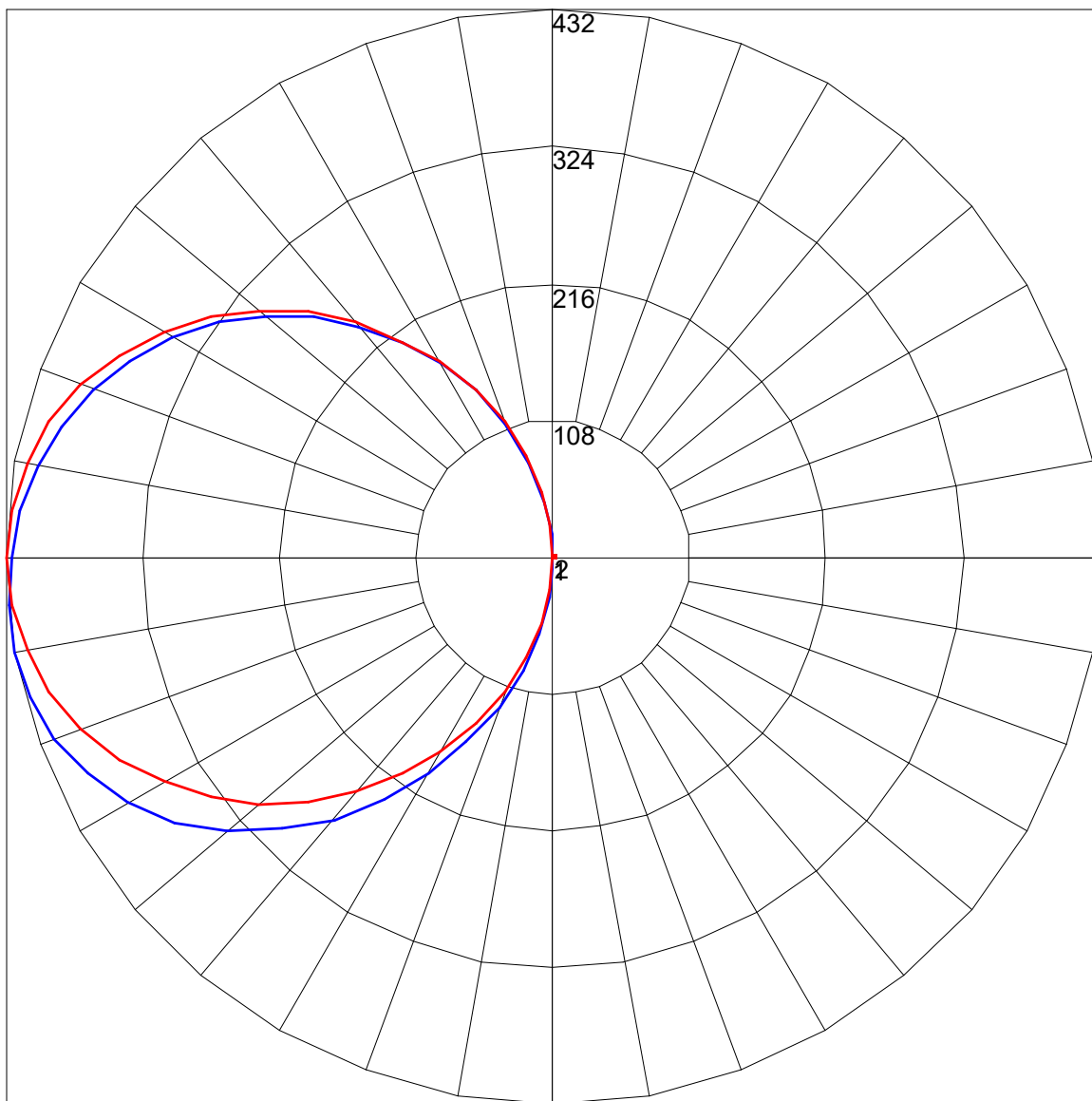
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	92	86	79	74	85	79	73	68	65	61	57	53	50	47	42	40	37	32
2	82	71	63	56	74	65	58	51	54	48	43	43	39	35	34	30	27	22
3	73	61	51	44	66	56	47	40	46	39	33	36	31	27	28	24	20	16
4	66	53	43	35	60	48	39	32	39	32	27	31	26	21	24	20	16	12
5	60	46	36	29	54	42	33	27	34	27	22	27	22	17	21	16	13	9
6	55	41	31	24	50	37	29	22	31	24	18	24	19	14	18	14	11	8
7	50	36	27	21	46	33	25	19	27	20	16	22	16	12	17	12	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	14	10	15	11	8	5
9	43	29	21	15	39	27	19	14	22	16	12	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	20	14	10	16	11	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 431.729 Located At Horizontal Angle = 180, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)