

IES Report

ZipTwo® | 707 | Square 3554, Single Side Diffuse | 80 CRI | LO

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	88	91	93	93
Total Lumens, 4' rail length (1219mm)	1302	1343	1370	1370
Lumens per foot (305mm)	325	336	343	343
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_JA_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011210 (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-JA-BL

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

[MORE] square 3554, single side diffuse 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	1370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_JA_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	9.152	9.152	9.152	9.152	9.152	9.152	9.152	9.152	9.152	9.152
5	0.586	0.586	0.632	0.632	0.632	0.632	0.632	0.731	0.731	0.731
10	0.290	0.342	0.389	0.389	0.389	0.435	0.435	0.487	0.534	0.586
15	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389
20	0.389	0.487	0.487	0.435	0.435	0.435	0.435	0.435	0.435	0.435
25	0.586	0.586	0.534	0.534	0.534	0.534	0.534	0.534	0.534	0.487
30	0.679	0.679	0.679	0.679	0.679	0.632	0.632	0.632	0.534	0.534
35	0.876	0.829	0.829	0.829	0.829	0.731	0.731	0.731	0.679	0.632
40	0.974	0.974	0.974	0.974	0.922	0.922	0.829	0.829	0.777	0.731
45	1.166	1.119	1.119	1.119	1.067	1.021	1.021	0.922	0.876	0.829
50	1.264	1.264	1.264	1.218	1.218	1.119	1.119	1.021	0.974	0.876
55	1.363	1.363	1.363	1.363	1.311	1.311	1.218	1.119	1.119	1.021
60	1.462	1.508	1.462	1.462	1.409	1.409	1.311	1.264	1.166	1.067
65	1.653	1.607	1.607	1.554	1.508	1.508	1.409	1.311	1.264	1.166
70	1.752	1.699	1.699	1.653	1.607	1.607	1.508	1.409	1.363	1.264
75	1.850	1.798	1.798	1.752	1.699	1.653	1.607	1.508	1.409	1.311
80	1.850	1.850	1.850	1.850	1.798	1.699	1.699	1.607	1.462	1.363
85	1.943	1.943	1.943	1.897	1.850	1.798	1.699	1.607	1.508	1.409
90	2.042	2.042	1.995	1.943	1.897	1.850	1.798	1.699	1.607	1.462
95	2.042	2.042	2.042	1.995	1.943	1.897	1.798	1.699	1.607	1.462
100	2.042	2.042	2.042	2.042	1.995	1.897	1.798	1.752	1.653	1.554
105	2.140	2.140	2.140	2.088	2.042	1.995	1.897	1.798	1.699	1.554
110	2.239	2.187	2.140	2.140	2.088	1.995	1.943	1.850	1.752	1.653
115	2.239	2.239	2.187	2.140	2.088	2.042	1.995	1.897	1.752	1.653
120	2.239	2.187	2.187	2.140	2.088	2.042	1.995	1.897	1.798	1.653
125	2.239	2.187	2.140	2.088	2.088	1.995	1.943	1.897	1.798	1.699
130	2.140	2.140	2.088	2.088	1.995	1.995	1.897	1.850	1.752	1.607
135	2.042	2.042	2.042	1.995	1.995	1.897	1.850	1.798	1.752	1.653
140	1.943	1.943	1.943	1.897	1.897	1.798	1.752	1.798	1.752	1.653
145	1.850	1.850	1.850	1.798	1.699	1.752	1.798	1.798	1.699	1.699
150	1.752	1.752	1.699	1.607	1.653	1.699	1.752	1.752	1.798	1.699
155	1.554	1.607	1.554	1.554	1.607	1.699	1.752	1.798	1.699	1.699
160	1.462	1.462	1.363	1.409	1.508	1.699	1.699	1.653	1.607	1.607
165	1.264	1.218	1.264	1.363	1.554	1.554	1.554	1.462	1.508	1.508
170	1.166	1.166	1.218	1.462	1.554	1.554	1.653	1.798	1.995	2.187
175	1.850	2.088	2.285	2.529	2.575	2.627	2.720	2.772	2.819	2.819
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	9.152	9.152	9.152	9.152	9.152	9.152	9.152	9.152	9.152	9.152
5	0.731	0.777	0.876	1.264	1.995	3.115	4.814	6.757	8.944	11.327
10	0.586	0.632	0.679	0.679	0.731	0.777	1.508	4.327	8.851	14.100
15	0.389	0.487	0.534	0.586	0.679	0.679	0.777	2.332	8.654	16.675
20	0.435	0.389	0.435	0.487	0.586	0.632	0.679	1.166	8.265	19.105
25	0.435	0.435	0.435	0.435	0.487	0.586	0.679	0.731	7.876	21.443
30	0.534	0.534	0.435	0.435	0.435	0.487	0.586	0.679	7.488	23.629
35	0.586	0.534	0.534	0.534	0.435	0.435	0.534	0.679	7.001	25.572
40	0.679	0.632	0.586	0.534	0.487	0.435	0.487	0.632	7.001	26.645
45	0.777	0.679	0.632	0.586	0.534	0.435	0.435	0.586	6.513	28.101
50	0.829	0.777	0.679	0.586	0.534	0.487	0.435	0.534	5.881	29.220
55	0.876	0.777	0.731	0.679	0.586	0.534	0.435	0.487	4.524	30.920
60	0.974	0.876	0.777	0.679	0.586	0.534	0.487	0.435	3.840	31.552

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_JA_BL.IES

CANDELA TABULATION - (Cont.)

65	1.067	0.974	0.876	0.777	0.679	0.586	0.487	0.435	3.115	31.848
70	1.119	0.974	0.876	0.777	0.679	0.586	0.487	0.435	2.430	31.941
75	1.166	1.067	0.974	0.829	0.679	0.586	0.534	0.435	1.798	31.749
80	1.264	1.119	0.974	0.876	0.731	0.679	0.586	0.487	1.943	30.340
85	1.264	1.166	1.021	0.876	0.777	0.679	0.586	0.487	1.462	29.655
90	1.363	1.166	1.067	0.922	0.777	0.679	0.586	0.487	0.974	28.780
95	1.363	1.218	1.067	0.922	0.829	0.679	0.586	0.534	0.731	28.733
100	1.409	1.264	1.119	0.974	0.829	0.731	0.632	0.534	0.679	27.666
105	1.462	1.311	1.166	1.021	0.876	0.777	0.679	0.586	0.777	25.769
110	1.508	1.363	1.218	1.021	0.922	0.777	0.679	0.632	0.829	22.707
115	1.554	1.363	1.218	1.067	0.974	0.876	0.777	0.632	0.974	18.769
120	1.554	1.409	1.264	1.166	1.021	0.922	0.829	0.731	1.166	14.488
125	1.554	1.409	1.264	1.166	1.021	0.922	0.829	0.922	1.264	11.525
130	1.508	1.409	1.311	1.218	1.067	0.974	0.876	1.119	1.363	9.384
135	1.607	1.462	1.363	1.264	1.119	1.021	0.922	1.264	1.462	8.364
140	1.554	1.508	1.409	1.311	1.166	1.021	1.119	1.409	1.554	7.099
145	1.653	1.554	1.409	1.264	1.166	1.067	1.363	1.554	1.699	5.980
150	1.653	1.554	1.462	1.311	1.218	1.409	1.653	1.752	1.943	5.249
155	1.607	1.508	1.462	1.311	1.409	1.798	1.995	2.088	2.239	4.524
160	1.508	1.462	1.462	1.607	1.943	2.187	2.285	2.285	2.482	3.892
165	1.607	1.752	1.943	2.239	2.384	2.430	2.482	2.575	2.674	3.451
170	2.384	2.529	2.575	2.627	2.674	2.720	2.772	2.772	2.917	3.306
175	2.772	2.772	2.819	2.819	2.871	2.871	2.964	2.964	3.115	3.260
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	9.152	9.152	9.152	9.152	9.152	9.152	9.152	9.152	9.152	9.152
5	13.468	15.753	17.939	20.033	22.220	24.163	26.059	27.857	29.464	30.920
10	19.059	24.261	29.267	34.423	39.283	43.900	48.279	52.705	56.591	60.187
15	24.505	32.770	40.745	48.859	56.643	64.177	71.323	78.613	84.837	90.770
20	29.853	41.134	52.461	63.400	74.141	84.645	95.050	105.015	114.057	122.612
25	34.910	50.321	63.400	77.349	91.205	104.626	118.384	131.463	143.324	154.802
30	39.817	56.347	73.654	91.205	108.176	125.048	142.059	158.444	173.420	187.717
35	47.206	63.446	83.624	103.704	125.193	145.273	165.010	184.701	201.962	219.170
40	49.544	69.913	92.957	115.907	140.650	163.891	186.743	208.812	230.399	249.992
45	50.999	75.696	101.320	127.090	154.947	181.053	206.045	232.638	256.360	278.580
50	53.969	81.676	108.854	137.100	167.684	194.764	224.129	252.619	279.746	304.251
55	57.223	86.055	115.374	145.853	178.768	209.107	239.737	270.558	298.903	326.372
60	59.166	89.604	120.570	153.874	186.841	218.927	252.520	285.290	315.189	344.456
65	60.529	92.226	125.628	159.419	193.935	227.337	261.418	296.519	327.833	358.167
70	61.405	93.102	127.525	163.456	196.614	234.535	269.538	304.349	336.632	367.749
75	61.793	94.122	129.276	164.911	198.656	238.276	273.766	309.065	341.736	373.097
80	60.726	94.418	129.908	165.741	199.822	239.784	275.419	310.816	344.363	374.750
85	60.140	93.977	129.468	165.300	199.381	239.151	274.595	310.863	343.099	373.189
90	59.166	92.713	127.965	163.601	198.412	236.576	271.579	306.194	339.016	368.671
95	58.777	91.936	125.680	160.683	195.982	232.394	266.719	300.655	331.772	361.618
100	57.124	89.506	122.467	156.699	192.282	225.539	259.910	293.120	323.164	352.240
105	55.036	86.588	119.550	152.610	186.012	218.150	251.500	283.347	312.417	340.425
110	52.652	82.070	114.643	146.485	178.524	206.869	242.167	271.869	299.779	326.517
115	49.346	78.033	108.176	138.365	170.793	197.971	229.431	258.454	285.047	310.230
120	46.238	72.929	101.755	130.396	160.828	189.219	215.911	243.235	268.905	291.949
125	35.003	64.125	91.449	117.897	146.873	174.638	198.314	227.145	250.235	271.678
130	28.635	53.575	80.608	104.336	129.955	154.361	179.208	204.485	229.332	249.458
135	23.043	47.061	68.063	91.060	113.570	134.914	156.356	178.669	199.769	222.430

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_JA_BL.IES

CANDELA TABULATION - (Cont.)

140	18.717	36.024	56.103	76.572	98.304	116.539	134.525	153.439	171.622	187.323
145	15.167	27.759	44.828	61.115	80.365	100.787	116.099	129.856	144.495	160.051
150	13.224	22.510	34.812	49.445	62.913	79.930	97.968	110.652	120.913	131.121
155	10.892	18.717	27.567	37.143	49.300	60.187	72.297	87.464	97.481	106.082
160	8.654	15.121	22.023	28.878	35.345	43.222	52.942	61.405	70.447	77.546
165	6.270	10.794	16.484	21.443	26.645	31.065	35.687	40.113	44.585	51.098
170	4.425	6.809	10.208	13.856	17.209	20.370	22.951	25.914	28.588	30.288
175	3.550	4.037	5.005	6.270	7.731	9.529	11.084	12.447	13.566	14.633
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	9.152	9.152	9.152	9.152	9.152	9.152	9.152
5	32.236	33.350	34.278	35.055	35.542	35.786	35.879
10	63.400	66.074	68.359	70.157	71.369	72.053	72.245
15	96.071	100.491	104.383	107.399	109.487	110.705	111.140
20	130.251	136.764	142.402	146.873	149.889	151.786	152.372
25	165.010	173.710	181.198	187.178	191.261	193.500	194.178
30	199.868	210.905	220.145	227.870	233.172	236.431	237.545
35	234.923	248.147	259.376	268.662	275.175	279.456	280.720
40	268.227	283.835	297.105	307.800	315.578	320.589	322.144
45	298.659	316.454	332.497	344.653	353.406	359.095	360.841
50	327.248	346.892	364.292	377.615	387.486	394.000	395.850
55	351.364	372.754	391.616	405.913	416.707	423.365	425.697
60	371.101	393.658	413.401	429.246	440.336	447.284	449.425
65	385.833	409.167	429.786	446.020	457.545	464.644	467.022
70	395.943	419.769	440.185	457.347	468.971	476.360	478.691
75	401.389	425.552	446.020	462.794	474.753	482.438	484.723
80	402.073	427.013	447.284	464.058	475.826	483.407	485.692
85	400.125	424.142	445.388	461.286	472.857	480.344	482.583
90	395.943	419.282	439.553	455.213	466.540	473.877	476.163
95	388.554	411.116	430.899	446.165	457.255	464.447	466.633
100	378.247	400.270	419.624	434.693	445.341	452.052	454.186
105	365.557	387.046	405.426	420.059	430.412	436.786	438.921
110	350.535	371.003	388.942	402.653	412.525	418.748	420.836
115	333.036	352.385	368.816	382.185	391.912	397.694	399.545
120	313.200	331.429	346.695	359.385	368.184	373.920	375.817
125	290.882	307.557	322.724	333.958	342.270	347.519	349.079
130	267.595	283.005	296.328	306.437	313.977	318.785	320.293
135	241.970	255.826	267.885	277.025	283.835	288.161	289.472
140	209.740	227.238	238.032	246.442	252.230	255.826	257.091
145	175.902	189.950	207.014	214.356	219.460	222.476	223.544
150	143.620	156.356	170.601	182.996	187.323	189.904	190.779
155	112.648	121.933	132.292	145.365	152.998	155.092	155.869
160	83.427	87.464	94.905	103.994	116.000	118.917	119.602
165	55.813	58.876	60.384	65.099	71.613	80.266	80.608
170	31.848	33.106	32.915	32.138	34.812	40.838	46.481
175	15.266	15.556	15.706	14.633	13.468	13.665	19.349
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_JA_BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	12.31	N.A.	0.90
0-30	40.84	N.A.	3.00
0-40	94.88	N.A.	6.90
0-60	291.97	N.A.	21.30
0-80	580.75	N.A.	42.40
0-90	737.12	N.A.	53.80
10-90	735.46	N.A.	53.70
20-40	82.57	N.A.	6.00
20-50	166.41	N.A.	12.10
40-70	334.15	N.A.	24.40
60-80	288.78	N.A.	21.10
70-80	151.73	N.A.	11.10
80-90	156.37	N.A.	11.40
90-110	290.21	N.A.	21.20
90-120	408.64	N.A.	29.80
90-130	501.71	N.A.	36.60
90-150	606.66	N.A.	44.30
90-180	633.22	N.A.	46.20
110-180	343.01	N.A.	25.00
0-180	1370.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.66
10-20	10.65
20-30	28.53
30-40	54.04
40-50	83.85
50-60	113.25
60-70	137.05
70-80	151.73
80-90	156.37
90-100	151.65
100-110	138.56
110-120	118.43
120-130	93.08
130-140	65.29
140-150	39.66
150-160	19.53
160-170	6.27
170-180	0.77

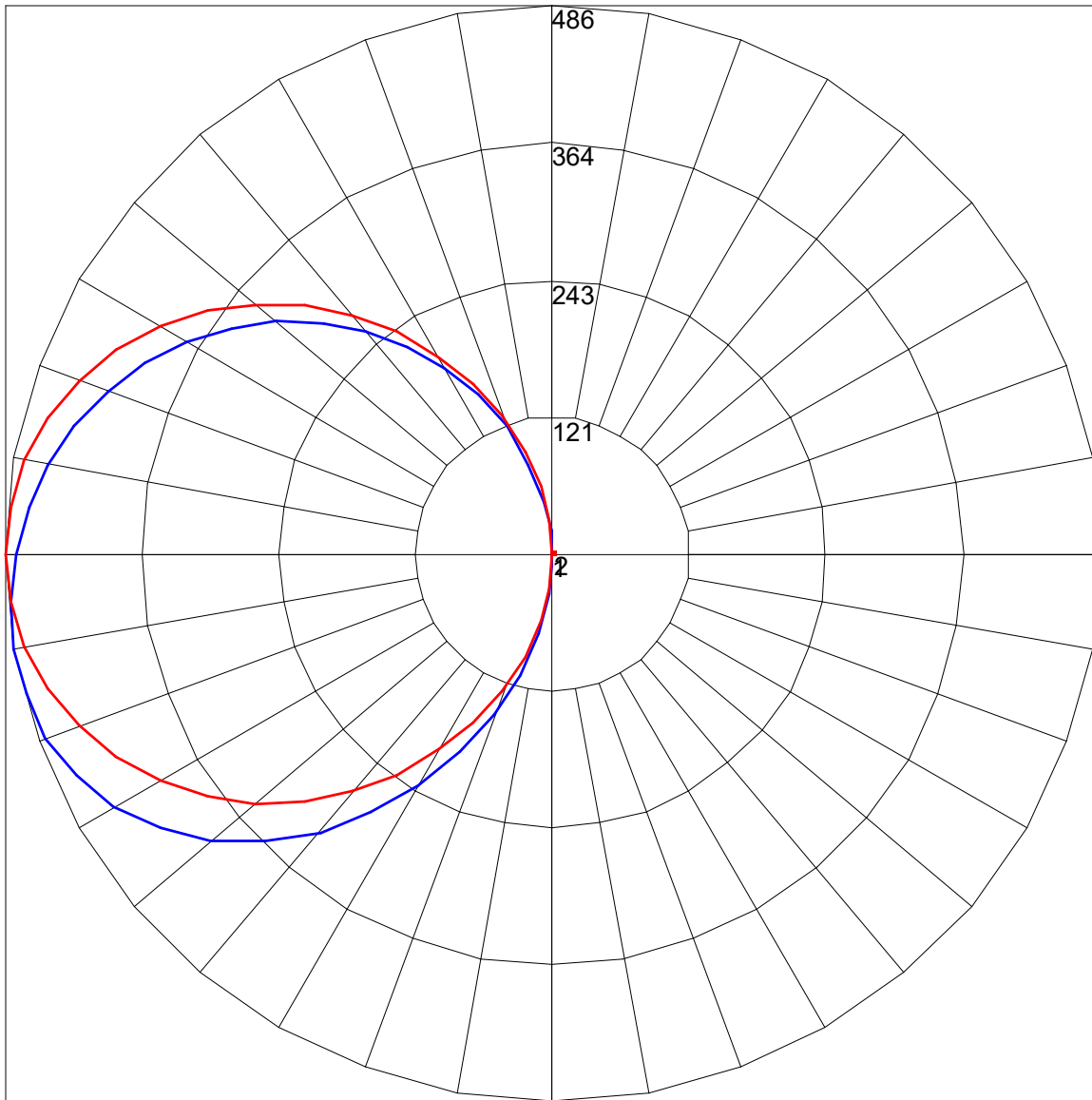
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_LO_35_JA_BL.IES

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	93	86	80	74	85	79	73	69	66	62	58	54	51	48	43	41	39	33
2	82	72	63	56	75	66	58	51	54	48	43	44	40	35	35	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	25	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	25	20	17	13
5	60	46	36	29	55	42	33	27	35	28	22	28	22	18	21	17	13	10
6	55	41	31	24	50	37	29	22	31	24	19	25	19	15	19	15	11	8
7	51	36	27	21	46	33	25	19	28	21	16	22	17	12	17	13	9	6
8	47	33	24	18	43	30	22	16	25	18	13	20	15	11	15	11	8	5
9	43	30	21	15	39	27	19	14	23	16	12	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	21	14	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 485.692 Located At Horizontal Angle = 180, Vertical Angle = 80
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)