

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	88	91	93	93
Total Lumens, 4' rail length (1219mm)	3462	3572	3645	3645
Lumens per foot (305mm)	866	893	911	911
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_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-HO-35-SA-WH

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

[MORE] square 3536, single side 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	3645
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	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	114	667
55	0	117	414
65	0	122	260
75	0	131	133
85	0	137	108

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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	26.918	26.918	26.918	26.918	26.918	26.918	26.918	26.918	26.918	26.918
5	1.462	1.462	1.601	1.601	1.601	1.757	1.897	1.897	1.897	2.036
10	0.870	1.027	1.166	1.166	1.166	1.166	1.305	1.305	1.462	1.462
15	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166
20	1.166	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.305	1.166
25	1.462	1.601	1.601	1.601	1.601	1.601	1.601	1.462	1.462	1.305
30	2.036	2.036	2.036	2.036	1.897	1.897	1.897	1.757	1.601	1.601
35	2.332	2.332	2.332	2.332	2.332	2.192	2.192	1.897	1.897	1.897
40	2.923	2.923	2.767	2.767	2.627	2.488	2.488	2.332	2.192	2.036
45	3.202	3.202	3.202	3.202	3.062	2.923	2.767	2.627	2.488	2.332
50	3.497	3.497	3.497	3.497	3.358	3.358	3.062	3.062	2.767	2.627
55	3.793	3.932	3.932	3.793	3.793	3.654	3.358	3.358	3.062	2.767
60	4.385	4.228	4.228	4.089	4.089	3.932	3.654	3.654	3.358	3.062
65	4.663	4.524	4.524	4.385	4.228	4.228	3.932	3.793	3.654	3.202
70	4.663	4.663	4.663	4.663	4.524	4.385	4.228	3.932	3.654	3.497
75	4.959	4.959	4.959	4.959	4.820	4.524	4.524	4.228	3.932	3.654
80	5.255	5.255	5.255	5.098	4.959	4.820	4.524	4.228	4.089	3.793
85	5.255	5.255	5.255	5.255	5.098	4.959	4.820	4.524	4.228	3.932
90	5.551	5.551	5.551	5.394	5.255	5.098	4.820	4.524	4.385	4.089
95	5.551	5.551	5.551	5.551	5.394	5.098	5.098	4.820	4.524	4.089
100	5.829	5.829	5.829	5.690	5.551	5.394	5.098	4.820	4.663	4.385
105	6.125	6.125	5.986	5.829	5.690	5.690	5.394	5.098	4.820	4.524
110	6.125	6.125	6.125	6.125	5.986	5.690	5.394	5.255	4.959	4.663
115	6.421	6.264	6.264	6.125	5.986	5.829	5.690	5.394	5.098	4.820
120	6.421	6.421	6.264	6.125	5.986	5.986	5.690	5.394	5.098	4.820
125	6.421	6.421	6.264	6.125	5.986	5.829	5.690	5.394	5.098	4.959
130	6.125	6.125	6.125	5.986	5.986	5.690	5.551	5.394	4.959	4.820
135	6.125	5.986	5.829	5.829	5.690	5.551	5.394	5.098	5.098	4.959
140	5.829	5.690	5.690	5.551	5.551	5.255	5.255	5.255	5.098	4.959
145	5.551	5.551	5.394	5.394	5.098	5.098	5.255	5.394	5.255	5.255
150	5.255	5.255	5.255	4.820	4.959	5.098	5.255	5.551	5.551	5.551
155	4.959	4.959	4.820	4.524	4.820	5.098	5.394	5.551	5.551	5.394
160	4.663	4.663	4.089	4.228	4.663	5.255	5.551	5.394	5.255	5.098
165	4.089	3.654	3.793	4.228	5.098	5.255	5.551	5.986	6.560	7.447
170	4.959	5.829	5.986	8.021	8.456	9.187	9.779	10.510	10.945	11.519
175	7.586	8.456	9.918	11.223	11.223	11.519	11.519	11.675	11.815	11.815
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	26.918	26.918	26.918	26.918	26.918	26.918	26.918	26.918	26.918	26.918
5	2.036	2.627	3.793	5.690	8.317	11.675	16.182	21.298	26.552	32.242
10	1.601	1.757	1.757	1.897	2.036	2.488	6.421	14.581	26.396	39.672
15	1.166	1.462	1.462	1.757	1.757	1.757	2.192	8.613	25.526	46.093
20	1.166	1.166	1.166	1.305	1.462	1.757	1.897	4.385	24.656	52.078
25	1.305	1.305	1.305	1.166	1.305	1.601	1.757	2.192	23.925	58.342
30	1.601	1.462	1.305	1.305	1.305	1.305	1.601	1.897	22.463	63.301
35	1.601	1.601	1.601	1.305	1.305	1.305	1.462	1.757	21.002	66.503
40	1.897	1.757	1.601	1.601	1.305	1.305	1.305	1.757	21.141	70.888
45	2.036	1.897	1.757	1.601	1.462	1.305	1.305	1.601	19.262	73.811
50	2.332	2.036	1.897	1.757	1.601	1.305	1.305	1.462	15.904	76.577
55	2.627	2.332	2.036	1.757	1.601	1.462	1.305	1.305	13.850	80.945
60	2.767	2.488	2.192	2.036	1.757	1.462	1.305	1.305	11.519	82.111

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CANDELA TABULATION - (Cont.)

65	2.923	2.627	2.332	2.036	1.757	1.601	1.305	1.305	9.622	82.841
70	3.202	2.923	2.627	2.192	1.897	1.757	1.462	1.305	7.447	83.276
75	3.202	2.923	2.627	2.332	2.036	1.757	1.462	1.305	5.255	82.841
80	3.497	3.062	2.627	2.332	2.036	1.757	1.462	1.305	5.829	79.483
85	3.497	3.202	2.767	2.332	2.036	1.757	1.462	1.305	4.385	77.882
90	3.654	3.202	2.923	2.488	2.036	1.757	1.601	1.305	2.923	75.847
95	3.793	3.497	2.923	2.627	2.332	2.036	1.757	1.462	2.192	76.142
100	4.089	3.497	3.202	2.627	2.332	2.036	1.757	1.601	2.192	73.811
105	4.089	3.793	3.358	2.923	2.627	2.192	1.897	1.757	2.488	70.157
110	4.385	3.932	3.497	2.923	2.627	2.332	2.192	2.036	3.062	62.710
115	4.385	3.932	3.654	3.202	2.767	2.627	2.332	2.332	3.654	49.155
120	4.524	4.228	3.654	3.358	3.062	2.627	2.488	3.062	4.228	38.210
125	4.524	4.228	3.793	3.497	3.202	2.923	2.767	3.793	4.820	30.920
130	4.524	4.228	3.932	3.654	3.358	3.202	3.358	4.524	5.255	25.961
135	4.663	4.524	4.228	3.793	3.497	3.358	4.228	5.098	5.690	22.028
140	4.959	4.820	4.385	4.089	3.654	3.932	5.255	5.690	6.264	18.809
145	5.255	4.820	4.524	4.089	3.932	5.098	5.986	6.125	6.560	15.469
150	5.255	4.959	4.663	4.663	5.394	7.151	6.995	7.151	7.726	15.173
155	5.255	4.959	5.394	6.264	7.726	8.161	8.021	8.317	8.891	15.016
160	5.551	6.264	7.586	8.891	9.187	8.891	9.048	9.344	9.918	14.007
165	8.613	9.779	10.353	10.214	9.918	9.918	10.214	10.510	10.788	12.685
170	11.675	11.519	11.223	11.084	11.223	11.223	11.519	11.815	12.110	12.841
175	11.675	11.675	11.815	11.954	12.110	12.406	12.685	12.685	12.980	13.120
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

	100	105	110	115	120	125	130	135	140	145
0	26.918	26.918	26.918	26.918	26.918	26.918	26.918	26.918	26.918	26.918
5	37.915	43.465	49.016	54.688	59.804	64.902	69.722	73.950	78.178	81.971
10	52.217	64.902	77.587	89.558	101.668	112.752	123.679	134.485	143.811	152.563
15	65.789	85.173	105.166	124.706	143.376	161.455	180.281	196.898	212.367	226.948
20	78.770	105.166	132.292	159.558	185.519	211.045	236.135	261.087	283.255	304.552
25	91.454	124.706	159.558	194.723	228.706	262.096	296.513	328.164	357.640	385.932
30	102.834	148.909	184.945	228.114	270.118	312.278	352.959	393.814	431.137	466.581
35	113.761	160.289	210.175	259.765	312.417	362.007	410.866	459.586	504.652	549.440
40	122.235	177.219	234.239	291.850	353.116	410.727	467.747	526.820	578.028	626.435
45	141.340	192.235	256.128	320.143	389.569	454.766	520.260	581.525	645.105	701.707
50	144.107	207.547	275.964	346.991	423.707	496.057	568.249	638.110	705.935	770.977
55	147.030	219.797	293.747	370.463	454.036	533.101	594.645	688.570	762.085	833.408
60	151.989	229.436	307.893	392.631	476.656	560.802	642.338	729.408	808.178	884.894
65	156.217	237.458	322.631	409.126	497.501	583.700	671.953	763.251	845.953	926.324
70	159.280	240.799	329.486	419.323	514.135	597.272	701.116	790.378	875.846	958.549
75	160.880	244.592	335.611	427.936	527.986	604.424	713.226	807.308	894.377	981.447
80	158.392	246.488	338.813	432.755	534.406	608.791	722.117	819.992	907.062	989.329
85	157.661	246.349	339.839	434.200	536.599	621.632	725.041	823.055	909.846	991.957
90	155.765	247.080	337.508	431.868	533.832	608.217	721.247	815.468	902.260	985.832
95	155.626	243.583	333.280	426.770	527.411	603.989	712.495	805.411	890.723	972.851
100	152.128	238.467	326.720	421.219	514.274	597.707	695.287	788.777	872.506	952.285
105	147.604	229.436	320.595	409.857	500.128	589.686	678.809	766.905	847.850	925.297
110	142.349	221.554	307.023	393.083	485.408	572.182	657.372	739.622	817.069	891.315
115	137.825	212.367	294.043	376.310	464.684	547.091	609.957	706.231	782.217	850.477
120	128.203	199.961	278.574	356.317	439.611	517.337	593.340	669.326	738.317	802.192
125	96.553	176.332	250.142	322.196	401.975	478.987	554.538	610.392	689.023	748.374
130	80.806	151.989	221.850	286.456	356.178	423.707	492.698	565.622	632.281	689.458
135	63.005	131.996	190.930	252.039	313.287	371.490	430.702	492.542	553.372	615.212

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CANDELA TABULATION - (Cont.)

140	50.912	100.642	160.880	216.004	271.440	321.030	371.629	423.568	474.028	526.246
145	41.864	75.116	126.602	173.565	226.374	282.663	322.492	359.675	399.939	442.082
150	37.775	63.736	96.709	139.879	180.560	228.845	277.704	310.955	337.647	364.930
155	32.086	54.688	78.317	106.036	142.071	173.565	210.766	251.447	277.408	299.437
160	26.396	44.927	63.736	83.572	101.512	124.114	152.702	177.793	203.180	222.424
165	20.271	32.816	48.563	63.005	77.308	89.854	102.538	114.788	127.768	146.143
170	15.747	21.872	31.076	41.708	51.052	60.100	67.094	75.551	82.841	87.226
175	13.711	14.877	17.209	20.132	23.768	28.588	32.677	36.610	39.237	42.299
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

	150	155	160	165	170	175	180
0	26.918	26.918	26.918	26.918	26.918	26.918	26.918
5	85.173	88.392	90.584	92.324	93.490	94.082	94.221
10	160.585	167.301	172.834	177.497	180.421	182.178	182.613
15	240.068	251.169	260.635	268.221	273.180	276.103	276.834
20	323.501	339.544	353.551	364.339	371.351	375.579	377.180
25	411.301	432.895	451.704	466.442	476.360	482.485	484.242
30	498.823	526.246	550.014	568.545	579.629	588.085	590.417
35	580.638	618.709	646.723	669.622	685.664	696.157	699.515
40	671.518	712.634	746.338	774.491	794.327	806.873	810.649
45	753.333	800.591	840.559	871.479	893.942	908.663	912.752
50	830.641	881.832	926.324	960.880	986.563	1002.745	1008.139
55	898.171	954.320	1004.067	1042.712	1071.440	1088.805	1094.495
60	954.320	1014.263	1066.916	1109.076	1138.673	1156.909	1163.625
65	999.386	1062.548	1117.672	1161.589	1192.057	1210.727	1217.582
70	1034.256	1099.158	1154.438	1199.800	1232.755	1252.452	1259.012
75	1055.832	1121.761	1177.771	1222.837	1255.358	1276.081	1282.641
80	1064.149	1132.409	1188.716	1234.078	1266.737	1287.461	1293.725
85	1066.342	1134.602	1191.482	1234.948	1267.172	1288.035	1295.186
90	1061.818	1126.424	1183.165	1226.335	1258.281	1278.552	1284.973
95	1047.236	1111.112	1166.687	1209.996	1240.933	1260.317	1266.894
100	1025.069	1087.343	1141.457	1184.488	1214.381	1233.051	1239.176
105	995.454	1055.832	1108.484	1150.349	1179.529	1197.746	1203.297
110	958.705	1016.456	1065.611	1105.857	1135.472	1153.411	1158.962
115	914.353	969.197	1015.882	1053.796	1081.219	1098.862	1104.117
120	860.830	911.882	958.253	993.122	1018.213	1035.126	1039.946
125	802.627	851.643	892.916	924.566	948.196	963.803	968.171
130	740.509	783.679	821.593	850.912	872.210	886.356	890.288
135	670.787	709.729	743.850	770.542	789.368	801.757	805.411
140	577.732	630.820	660.713	684.499	701.116	711.625	715.262
145	486.278	532.666	578.463	596.402	610.549	619.597	622.207
150	398.617	433.625	473.158	510.046	522.296	529.882	532.075
155	315.044	340.431	369.019	406.499	428.371	434.200	436.096
160	238.189	248.542	268.656	293.173	329.051	336.481	338.378
165	159.558	168.032	171.668	185.240	203.180	228.984	230.150
170	91.298	94.952	94.082	90.584	97.875	113.918	130.970
175	44.335	44.927	45.658	42.874	38.645	39.237	55.141
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_SA_WH.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	31.24	N.A.	0.90
0-30	102.61	N.A.	2.80
0-40	237.85	N.A.	6.50
0-60	739.69	N.A.	20.30
0-80	1493.59	N.A.	41.00
0-90	1909.66	N.A.	52.40
10-90	1905.27	N.A.	52.30
20-40	206.61	N.A.	5.70
20-50	418.75	N.A.	11.50
40-70	857.09	N.A.	23.50
60-80	753.90	N.A.	20.70
70-80	398.65	N.A.	10.90
80-90	416.07	N.A.	11.40
90-110	785.01	N.A.	21.50
90-120	1110.05	N.A.	30.50
90-130	1367.03	N.A.	37.50
90-150	1658.91	N.A.	45.50
90-180	1735.04	N.A.	47.60
110-180	950.03	N.A.	26.10
0-180	3644.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	4.39
10-20	26.85
20-30	71.37
30-40	135.24
40-50	212.14
50-60	289.70
60-70	355.25
70-80	398.65
80-90	416.07
90-100	408.04
100-110	376.97
110-120	325.04
120-130	256.98
130-140	181.21
140-150	110.67
150-160	55.39
160-170	18.34
170-180	2.40

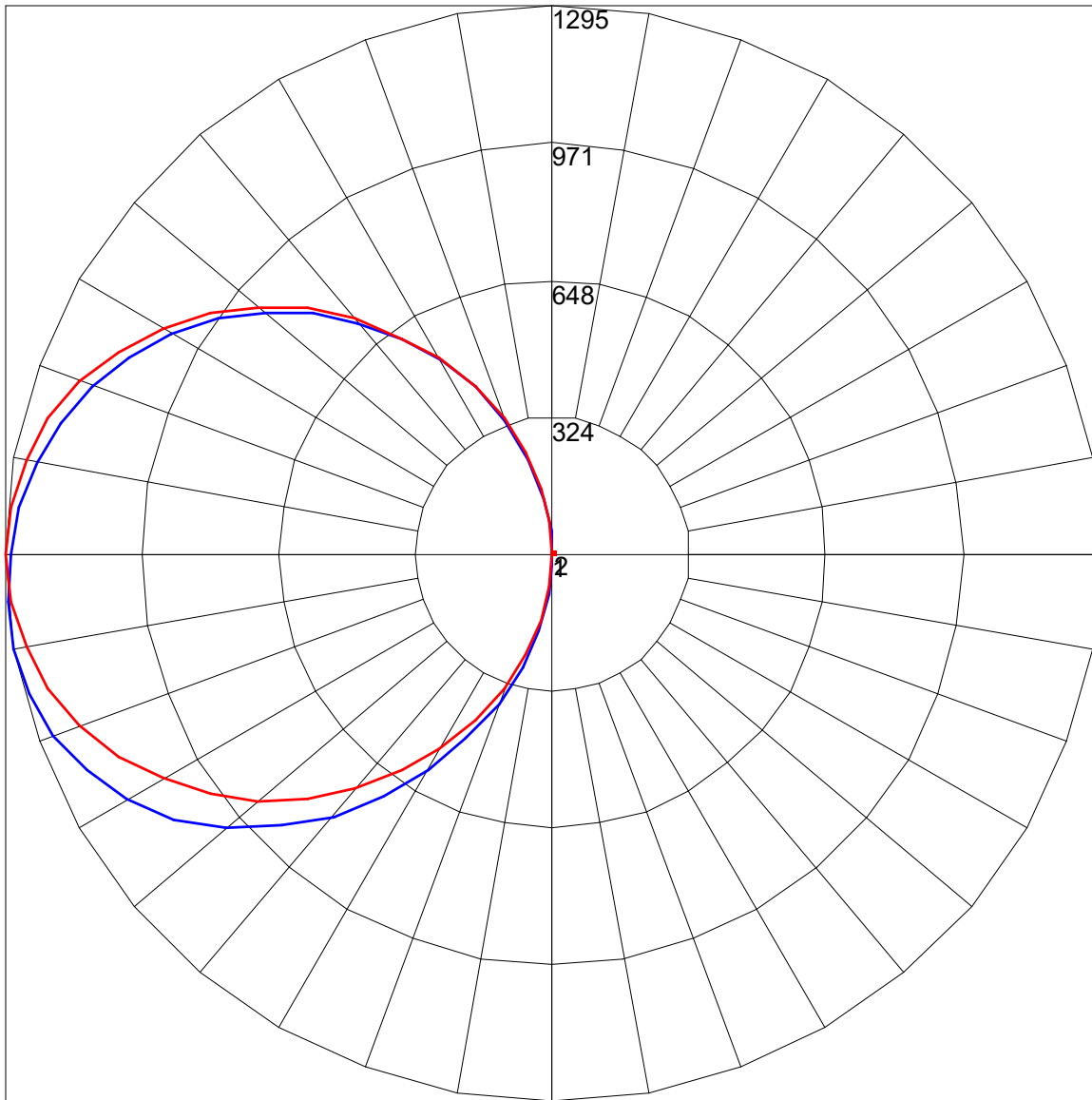
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1295.186 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.)