

IES Report

BoxRail® | 207 | Wide Batwing, up | 85° Asymmetric, down | 80 CRI | LO

207-BX-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	70	72	73	73
Total Lumens, 4' rail length (1219mm)	1991	2054	2096	2096
Lumens per foot (305mm)	498	514	524	524
Lumens per foot UP (305mm)	28.8	28.8	28.8	28.8
Lumens per foot DOWN (305mm)	333	343	350	350
Input Power (W), 4' rail length (1219mm)	165	170	174	174
Watts per foot (305mm)	7.2	7.2	7.2	7.2
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_207_BX_LO_35_G1A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010910 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 12/23/2019

[MANUFAC] Vode Lighting

[LUMCAT] 207-BX-48-Z-LO-35-G1A1-BL

[LUMINAIRE] BoxRail LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up,

[MORE] 85° asymmetric lens down, low output, black anodized finish

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2096
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	28.76
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.09 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8207	7979	6296
55	5341	5087	4344
65	2798	2846	3031
75	690	1218	2120
85	116	135	1044

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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	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814
5	415.877	415.570	415.268	412.409	410.153	407.369	404.080	400.322	396.111	391.488
10	477.723	477.079	474.544	471.563	467.689	462.944	457.365	450.051	442.140	433.666
15	519.141	518.010	514.970	511.508	506.821	499.856	492.252	484.085	475.438	465.311
20	537.909	536.285	533.496	529.888	523.746	517.244	509.907	500.453	491.219	478.024
25	536.256	534.319	532.457	527.469	522.186	515.260	507.187	499.606	485.564	471.447
30	514.280	512.123	509.942	505.551	500.523	494.520	487.844	476.980	464.052	449.784
35	475.774	473.953	471.273	468.089	462.538	456.744	450.271	438.068	426.596	412.032
40	425.407	424.021	421.422	417.739	413.047	406.679	397.520	387.631	375.324	361.236
45	366.966	366.003	363.579	360.174	355.209	348.539	339.445	330.461	317.045	304.106
50	302.696	301.606	299.756	296.815	292.674	286.474	278.632	268.430	256.818	243.055
55	237.643	236.820	236.072	233.931	230.567	225.568	218.440	209.165	199.004	187.450
60	176.970	176.494	175.914	174.760	172.556	168.902	163.206	157.603	148.358	139.183
65	120.089	120.280	121.023	120.878	119.602	117.520	114.695	110.217	104.609	98.072
70	70.592	71.015	72.413	73.103	73.938	73.596	72.790	71.537	68.272	64.902
75	27.614	29.017	31.494	32.718	34.638	36.383	37.694	39.736	39.249	37.787
80	4.182	7.059	6.044	7.308	8.050	8.880	9.959	12.255	13.421	15.643
85	4.182	4.176	4.095	3.961	3.822	3.613	3.329	3.103	3.138	3.584
90	4.704	4.715	4.617	4.524	4.379	4.182	3.985	3.747	3.451	3.115
95	7.975	10.782	10.266	10.881	11.983	13.827	14.871	18.931	24.557	24.708
100	38.698	41.429	43.657	47.804	52.484	57.919	64.055	70.870	76.334	81.084
105	94.320	99.238	104.707	110.351	117.235	127.478	136.578	142.848	146.195	144.635
110	181.929	185.594	194.132	200.558	209.293	216.346	216.207	221.902	217.854	207.988
115	290.348	292.175	300.660	305.817	309.268	312.533	310.190	301.501	288.660	267.966
120	401.290	400.125	403.141	403.233	403.477	394.864	384.441	368.799	341.086	311.292
125	486.858	484.196	480.368	473.425	466.946	450.248	433.683	405.165	375.718	342.194
130	532.173	529.366	521.287	509.205	495.883	477.363	452.841	424.693	392.196	357.819
135	541.703	539.122	530.944	516.490	499.328	480.008	453.815	426.509	394.945	363.144
140	525.074	522.133	514.448	501.393	484.167	464.632	441.583	416.115	389.110	361.386
145	492.211	489.752	483.076	472.108	456.628	439.344	420.523	399.266	376.826	353.904
150	451.565	449.610	444.558	434.733	423.243	410.211	395.276	378.879	361.758	343.174
155	409.654	408.123	405.031	398.367	390.073	380.370	369.338	357.309	344.566	331.650
160	370.956	370.353	367.656	364.153	358.591	352.217	344.967	336.487	327.416	319.348
165	337.699	337.270	335.658	333.761	331.145	327.340	323.089	318.432	313.403	307.696
170	312.226	311.936	311.141	310.236	309.105	307.748	306.176	303.949	301.565	299.031
175	295.794	295.667	295.545	295.191	294.895	294.553	294.164	293.741	293.277	292.778
180	288.840	288.840	288.840	288.840	288.840	288.840	288.840	288.840	288.840	288.840

**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	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814
5	386.489	381.147	375.509	369.611	363.498	357.216	350.813	344.346	337.844	330.942
10	424.693	415.292	405.756	393.431	381.083	368.509	355.801	343.012	330.310	316.848
15	452.928	437.941	422.704	407.311	391.836	373.358	354.670	336.000	317.672	298.352
20	462.869	446.902	430.656	409.364	388.356	367.726	344.166	320.821	298.323	274.555
25	458.368	440.011	418.946	399.347	374.761	350.297	325.322	298.416	272.896	245.891
30	433.115	414.694	394.847	371.902	350.488	323.315	298.143	268.575	241.245	213.985
35	395.264	378.183	356.282	334.596	311.077	286.079	260.101	231.652	203.464	178.895
40	345.744	326.952	307.539	287.558	264.637	241.181	211.909	188.541	170.891	146.235
45	287.483	270.309	251.140	231.722	213.788	195.680	174.615	154.738	135.447	114.782
50	227.070	206.445	191.330	180.090	167.614	151.287	134.862	119.086	103.020	87.087
55	174.012	162.162	151.270	139.774	126.649	113.471	100.497	87.777	76.525	65.204
60	130.303	119.938	110.734	101.227	91.681	82.517	73.567	63.945	55.813	49.868

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CANDELA TABULATION - (Cont.)

65	91.559	84.001	77.645	71.102	64.322	57.896	52.212	48.181	39.962	34.504
70	60.314	56.086	52.896	48.853	43.488	39.440	35.479	31.506	27.857	24.273
75	36.302	34.353	32.799	30.085	26.819	24.476	22.440	19.778	17.696	15.817
80	16.327	16.298	15.706	15.028	13.955	12.621	11.815	10.678	9.483	8.642
85	4.025	3.967	3.706	4.222	4.623	4.217	4.141	3.851	3.405	3.318
90	2.819	2.482	2.140	1.850	1.554	1.264	1.067	0.829	0.974	0.731
95	26.680	26.825	27.127	25.711	22.811	20.607	19.940	19.453	18.572	19.065
100	80.133	75.934	68.579	59.862	52.154	47.560	45.002	44.167	43.419	43.918
105	136.549	123.122	109.092	95.404	82.975	74.675	68.979	65.215	64.322	65.772
110	191.058	170.050	148.921	129.473	112.694	101.239	94.418	90.497	89.506	90.399
115	241.738	209.392	183.239	160.324	140.992	127.600	119.474	114.092	112.746	113.779
120	279.032	245.792	213.365	188.059	167.922	152.865	142.918	137.773	135.935	136.462
125	305.231	270.547	238.310	211.161	190.286	174.858	164.389	158.618	156.113	157.580
130	322.242	288.788	258.268	231.472	209.438	194.648	184.411	177.857	174.928	176.558
135	330.774	300.330	272.078	248.205	227.894	211.630	201.875	196.075	193.645	194.996
140	333.303	307.087	282.518	260.687	243.153	228.387	218.706	212.663	209.641	211.027
145	331.232	309.517	289.153	270.773	255.554	243.507	234.448	229.164	225.539	227.244
150	325.693	308.717	292.088	278.226	265.060	256.082	247.648	243.681	240.514	242.098
155	318.437	305.817	294.106	282.512	274.004	266.330	260.466	257.236	254.614	255.838
160	310.961	302.087	293.370	286.955	280.627	274.433	271.539	268.992	266.864	267.931
165	302.371	297.923	293.439	288.962	284.507	282.309	280.337	278.429	276.735	277.565
170	296.368	293.596	290.800	289.501	288.277	287.112	286.010	284.954	283.980	284.525
175	292.250	291.694	291.119	290.528	289.925	289.316	288.683	288.080	287.477	287.715
180	288.840	288.840	288.840	288.840	288.840	288.840	288.840	288.840	288.840	288.840

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814	340.814
5	324.104	317.405	310.863	304.546	298.497	292.755	287.367	282.373	277.814	273.719
10	303.636	290.684	278.098	265.965	254.371	244.482	235.248	226.716	218.944	211.990
15	279.537	261.104	244.406	227.981	213.260	199.265	186.076	175.073	165.828	157.192
20	251.604	230.208	209.560	190.594	172.370	157.783	144.275	131.295	119.608	111.934
25	220.064	196.510	174.644	153.926	137.124	120.750	107.062	96.477	86.501	77.906
30	188.059	164.395	141.259	122.844	104.893	91.512	79.408	69.177	62.199	55.297
35	155.394	132.849	112.665	94.871	80.562	68.115	58.597	50.611	44.492	40.217
40	124.079	104.093	87.470	72.343	60.772	51.249	43.268	37.874	33.135	30.119
45	96.686	80.492	66.671	55.483	45.895	38.785	33.356	28.704	26.036	23.449
50	73.364	61.352	50.628	42.230	35.490	30.050	25.990	23.275	20.921	19.343
55	55.088	46.348	38.837	32.347	27.492	23.855	21.077	18.925	17.307	16.037
60	41.621	34.870	29.574	25.172	21.698	19.053	17.139	15.503	14.146	13.091
65	30.224	25.920	22.295	19.331	17.000	15.150	13.543	12.302	11.420	10.707
70	21.564	18.717	16.315	14.390	12.882	11.507	10.312	9.309	8.532	7.969
75	13.943	12.400	11.014	9.837	8.781	7.615	6.676	6.015	5.620	5.301
80	7.842	7.140	6.015	5.133	4.443	3.950	3.550	3.312	3.306	3.294
85	3.103	2.268	1.897	1.873	1.665	1.601	1.601	1.630	1.612	1.583
90	0.679	0.777	0.777	0.731	0.829	0.829	0.829	0.876	0.922	0.974
95	17.406	13.479	14.181	16.524	17.696	17.458	16.727	16.588	15.190	13.439
100	44.956	46.093	47.630	49.567	54.450	51.991	49.642	49.955	51.173	48.563
105	67.860	72.297	78.544	88.554	99.395	106.331	105.925	102.300	100.711	95.010
110	93.693	99.348	108.373	121.168	138.568	157.377	173.988	183.483	189.335	192.177
115	117.653	124.445	135.424	151.276	172.196	194.770	217.280	243.762	263.361	278.064
120	140.795	148.642	160.585	177.097	198.215	226.647	258.175	287.262	314.209	339.323
125	162.185	170.213	181.731	196.191	220.707	250.171	282.518	317.695	351.155	380.880
130	181.523	189.463	201.080	216.879	240.410	267.142	297.436	330.600	364.594	398.785
135	198.366	204.966	218.474	235.225	254.962	278.812	306.002	335.646	366.206	397.022

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CANDELA TABULATION - (Cont.)

140	215.093	222.413	234.129	248.188	265.959	286.694	309.633	335.176	360.545	386.152
145	230.596	237.574	246.964	258.906	273.743	290.493	309.552	329.863	350.639	371.229
150	244.470	250.751	257.555	267.890	278.968	292.749	306.901	321.981	338.598	353.754
155	257.694	261.847	267.560	273.986	283.156	292.500	302.882	314.029	324.899	335.704
160	269.410	271.046	275.599	280.186	284.954	291.914	299.094	305.805	312.168	319.621
165	278.626	279.798	281.051	284.420	287.645	290.858	294.031	298.056	302.511	306.414
170	285.140	285.778	286.450	287.146	287.860	289.646	291.433	293.190	294.907	296.566
175	287.958	288.231	288.498	288.770	289.037	289.310	289.577	289.843	290.099	290.348
180	288.840	288.840	288.840	288.840	288.840	288.840	288.840	288.840	288.840	288.840

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	340.814	340.814	340.814	340.814	340.814	340.814	340.814
5	270.129	267.067	264.555	262.618	261.273	260.530	260.397
10	205.941	200.402	195.860	192.357	189.927	188.581	188.343
15	149.599	143.132	137.849	133.487	130.367	128.615	128.255
20	105.131	98.960	93.815	89.871	86.867	85.098	84.692
25	72.407	67.651	63.597	60.291	57.942	56.405	56.011
30	50.153	46.893	44.039	41.667	39.910	38.802	38.506
35	36.024	33.715	31.865	30.305	29.093	28.374	28.200
40	27.538	25.503	24.360	23.316	22.527	22.063	21.878
45	21.918	20.393	19.604	18.949	18.369	18.061	17.992
50	18.084	17.110	16.391	15.927	15.544	15.289	15.266
55	14.929	14.367	13.926	13.618	13.265	13.079	13.033
60	12.424	11.878	11.443	11.200	11.217	11.159	11.182
65	10.121	9.605	9.257	8.938	8.688	8.909	8.944
70	7.720	7.546	7.291	7.064	6.566	6.374	6.711
75	5.145	5.121	5.139	5.150	5.098	4.338	4.570
80	3.254	3.277	3.277	3.300	3.358	3.445	3.016
85	1.520	1.525	1.531	1.491	1.491	1.624	1.363
90	0.974	0.876	0.777	0.777	0.777	0.731	0.673
95	12.719	12.777	12.905	12.534	12.203	13.027	12.157
100	47.380	47.195	45.808	44.283	42.908	41.499	41.522
105	95.630	95.474	94.238	94.401	93.078	82.963	101.517
110	185.229	185.084	182.613	163.763	171.599	181.975	190.872
115	289.159	301.113	300.324	306.942	318.252	348.841	352.872
120	359.878	378.508	398.269	418.354	442.157	453.554	458.078
125	414.427	436.363	465.241	482.740	496.729	507.616	512.047
130	429.415	457.869	480.472	497.646	513.358	525.115	529.256
135	424.711	451.124	472.335	490.732	506.033	516.890	519.726
140	410.501	433.045	451.855	468.420	481.725	489.851	492.501
145	390.810	408.564	424.235	437.448	447.748	454.407	456.814
150	368.491	382.179	394.029	403.895	411.771	416.051	417.820
155	346.341	356.149	364.582	371.386	376.780	379.482	380.874
160	326.679	332.682	337.914	342.455	345.291	347.060	348.006
165	310.080	313.478	316.570	318.629	320.108	321.152	321.755
170	298.172	299.286	300.260	301.084	301.751	302.255	302.598
175	290.586	290.812	291.027	291.224	291.404	291.566	291.705
180	288.840	288.840	288.840	288.840	288.840	288.840	288.840

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	122.05	N.A.	5.80
0-30	252.49	N.A.	12.00
0-40	395.80	N.A.	18.90
0-60	614.70	N.A.	29.30
0-80	690.96	N.A.	33.00
0-90	695.24	N.A.	33.20
10-90	663.23	N.A.	31.60
20-40	273.74	N.A.	13.10
20-50	400.54	N.A.	19.10
40-70	273.28	N.A.	13.00
60-80	76.26	N.A.	3.60
70-80	21.88	N.A.	1.00
80-90	4.28	N.A.	0.20
90-110	133.08	N.A.	6.30
90-120	358.10	N.A.	17.10
90-130	646.49	N.A.	30.80
90-150	1136.23	N.A.	54.20
90-180	1400.71	N.A.	66.80
110-180	1267.63	N.A.	60.50
0-180	2095.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	32.01
10-20	90.04
20-30	130.44
30-40	143.30
40-50	126.80
50-60	92.11
60-70	54.38
70-80	21.88
80-90	4.28
90-100	24.14
100-110	108.94
110-120	225.03
120-130	288.39
130-140	272.90
140-150	216.84
150-160	150.19
160-170	86.35
170-180	27.93

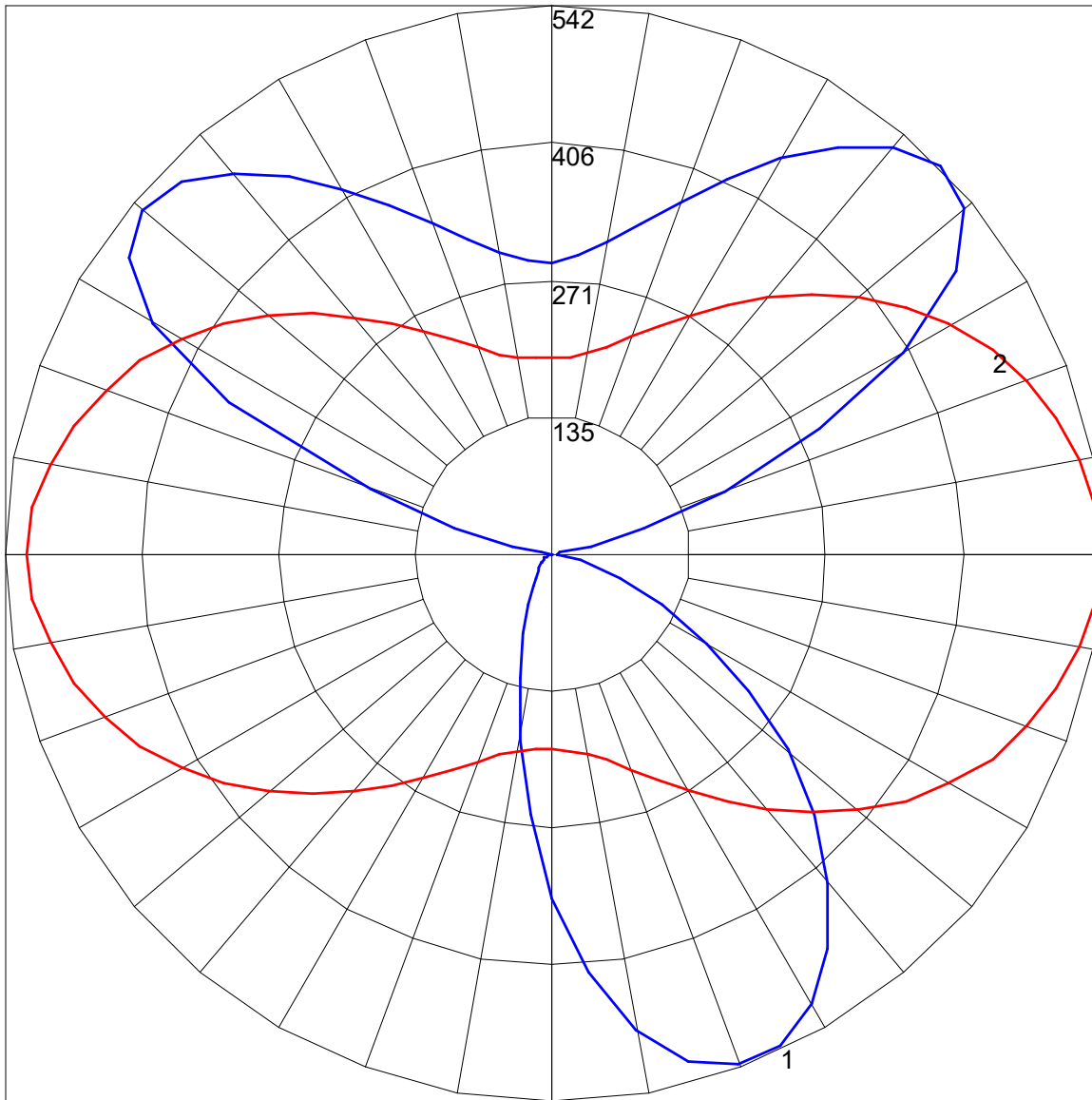
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	95	91	87	84	85	82	79	76	66	64	62	51	49	48	37	36	35	29
2	86	80	74	69	78	72	67	63	58	55	52	45	43	41	33	32	31	25
3	79	70	63	58	71	64	58	53	51	47	44	40	37	35	30	28	26	22
4	73	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23	19
5	67	56	48	42	60	51	44	39	41	36	33	32	29	27	24	22	20	17
6	61	50	42	37	55	46	39	34	37	32	29	29	26	23	22	20	18	15
7	57	45	38	32	51	41	35	30	34	29	25	27	23	21	20	18	16	13
8	53	41	34	29	48	38	31	27	31	26	23	25	21	19	19	16	15	12
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	17	15	13	11
10	46	34	27	23	41	31	25	21	26	21	18	21	18	15	16	14	12	10

POLAR GRAPH



Maximum Candela = 541.703 Located At Horizontal Angle = 0, Vertical Angle = 135
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (135) (Through Max. Cd.)