

IES Report

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

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

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	79	82	83	83
Total Lumens, 4' rail length (1219mm)	3982	4108	4192	4192
Lumens per foot (305mm)	996	1027	1048	1048
Lumens per foot UP (305mm)	50.5	50.5	50.5	50.5
Lumens per foot DOWN (305mm)	665	686	700	700
Input Power (W), 4' rail length (1219mm)	330	341	348	348
Watts per foot (305mm)	12.7	12.7	12.7	12.7
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_SO_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-SO-35-G1A1-BL

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

[MORE] 85° asymmetric lens down, standard 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	4192
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	50.52
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	16414	15958	12591
55	10683	10175	8688
65	5597	5692	6063
75	1379	2436	4239
85	233	269	2088

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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	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628
5	831.755	831.140	830.537	824.818	820.306	814.738	808.160	800.644	792.222	782.977
10	955.446	954.158	949.089	943.126	935.378	925.889	914.730	900.102	884.280	867.332
15	1038.281	1036.019	1029.941	1023.016	1013.643	999.711	984.504	968.171	950.875	930.622
20	1075.819	1072.571	1066.991	1059.776	1047.492	1034.488	1019.814	1000.906	982.439	956.049
25	1072.513	1068.638	1064.915	1054.939	1044.371	1030.521	1014.374	999.212	971.129	942.894
30	1028.560	1024.245	1019.884	1011.102	1001.045	989.039	975.688	953.961	928.104	899.568
35	951.548	947.906	942.546	936.178	925.077	913.488	900.543	876.136	853.192	824.064
40	850.814	848.041	842.844	835.478	826.094	813.357	795.041	775.263	750.648	722.471
45	733.932	732.006	727.158	720.348	710.419	697.079	678.890	660.922	634.091	608.211
50	605.392	603.212	599.511	593.630	585.348	572.947	557.264	536.860	513.636	486.110
55	475.287	473.640	472.143	467.863	461.135	451.136	436.879	418.331	398.008	374.900
60	353.939	352.988	351.828	349.520	345.112	337.804	326.412	315.207	296.716	278.365
65	240.178	240.561	242.046	241.756	239.204	235.039	229.390	220.435	209.218	196.144
70	141.184	142.030	144.826	146.206	147.877	147.192	145.580	143.074	136.544	129.804
75	55.228	58.035	62.988	65.436	69.275	72.767	75.388	79.472	78.497	75.574
80	8.364	14.117	12.087	14.616	16.101	17.760	19.917	24.511	26.842	31.285
85	8.364	8.352	8.190	7.923	7.644	7.227	6.658	6.206	6.276	7.169
90	9.408	9.431	9.234	9.048	8.758	8.364	7.969	7.494	6.902	6.229
95	15.950	21.564	20.532	21.762	23.966	27.654	29.742	37.862	49.114	49.416
100	77.395	82.859	87.313	95.607	104.968	115.838	128.110	141.740	152.668	162.168
105	188.639	198.476	209.415	220.702	234.471	254.956	273.157	285.696	292.390	289.269
110	363.857	371.188	388.264	401.116	418.586	432.692	432.413	443.804	435.708	415.976
115	580.696	584.350	601.321	611.633	618.535	625.066	620.380	603.003	577.320	535.932
120	802.581	800.249	806.281	806.467	806.954	789.728	768.883	737.598	682.173	622.584
125	973.716	968.391	960.735	946.850	933.893	900.496	867.367	810.330	751.436	684.388
130	1064.346	1058.732	1042.573	1018.410	991.765	954.726	905.682	849.387	784.392	715.639
135	1083.405	1078.243	1061.887	1032.980	998.656	960.016	907.630	853.018	789.890	726.288
140	1050.148	1044.267	1028.897	1002.785	968.333	929.264	883.166	832.230	778.221	722.773
145	984.422	979.504	966.152	944.217	913.256	878.688	841.046	798.532	753.652	707.809
150	903.130	899.220	889.117	869.466	846.487	820.422	790.552	757.758	723.515	686.349
155	819.308	816.246	810.063	796.734	780.146	760.740	738.676	714.618	689.133	663.300
160	741.913	740.706	735.312	728.306	717.182	704.433	689.933	672.974	654.832	638.696
165	675.398	674.540	671.315	667.522	662.290	654.681	646.178	636.863	626.806	615.392
170	624.451	623.871	622.282	620.472	618.210	615.496	612.352	607.898	603.130	598.061
175	591.588	591.333	591.090	590.382	589.790	589.106	588.329	587.482	586.554	585.556
180	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680

**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	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628
5	772.978	762.294	751.019	739.222	726.995	714.432	701.626	688.692	675.688	661.884
10	849.387	830.583	811.513	786.863	762.166	737.018	711.602	686.024	660.620	633.696
15	905.856	875.881	845.408	814.622	783.673	746.715	709.340	672.000	635.344	596.704
20	925.738	893.803	861.312	818.728	776.713	735.452	688.332	641.642	596.646	549.109
25	916.736	880.022	837.891	798.695	749.522	700.594	650.644	596.832	545.792	491.782
30	866.230	829.388	789.693	743.804	700.976	646.630	596.286	537.150	482.490	427.970
35	790.528	756.366	712.565	669.192	622.154	572.158	520.202	463.304	406.928	357.790
40	691.488	653.904	615.078	575.116	529.273	482.363	423.818	377.081	341.782	292.471
45	574.966	540.618	502.280	463.443	427.576	391.361	349.230	309.476	270.895	229.564
50	454.140	412.890	382.661	360.180	335.228	302.574	269.723	238.171	206.039	174.174
55	348.023	324.324	302.540	279.548	253.298	226.942	200.993	175.554	153.050	130.407
60	260.606	239.876	221.467	202.455	183.361	165.033	147.134	127.890	111.627	99.737

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CANDELA TABULATION - (Cont.)

65	183.118	168.003	155.289	142.204	128.644	115.791	104.423	96.361	79.924	69.008
70	120.628	112.172	105.792	97.707	86.977	78.880	70.957	63.011	55.715	48.546
75	72.604	68.707	65.598	60.169	53.638	48.952	44.880	39.556	35.392	31.633
80	32.654	32.596	31.413	30.056	27.910	25.242	23.629	21.356	18.966	17.284
85	8.050	7.934	7.412	8.445	9.245	8.433	8.282	7.702	6.809	6.635
90	5.638	4.965	4.280	3.700	3.109	2.529	2.134	1.659	1.949	1.462
95	53.360	53.650	54.253	51.423	45.623	41.215	39.881	38.906	37.143	38.129
100	160.266	151.867	137.158	119.724	104.307	95.120	90.004	88.334	86.838	87.835
105	273.099	246.245	218.184	190.808	165.950	149.350	137.959	130.430	128.644	131.544
110	382.116	340.100	297.842	258.947	225.388	202.478	188.836	180.995	179.011	180.798
115	483.476	418.783	366.479	320.647	281.984	255.200	238.948	228.184	225.492	227.557
120	558.064	491.585	426.729	376.118	335.843	305.730	285.836	275.546	271.869	272.925
125	610.462	541.094	476.621	422.321	380.573	349.717	328.779	317.237	312.226	315.160
130	644.484	577.576	516.536	462.944	418.876	389.296	368.822	355.714	349.856	353.116
135	661.548	600.660	544.156	496.410	455.787	423.261	403.750	392.150	387.289	389.992
140	666.606	614.174	565.036	521.374	486.307	456.773	437.413	425.326	419.282	422.054
145	662.464	619.034	578.306	541.546	511.108	487.014	468.895	458.328	451.078	454.488
150	651.386	617.433	584.176	556.452	530.120	512.163	495.297	487.362	481.029	484.196
155	636.875	611.633	588.213	565.024	548.007	532.660	520.933	514.472	509.228	511.676
160	621.922	604.174	586.740	573.910	561.254	548.866	543.077	537.985	533.728	535.862
165	604.743	595.846	586.879	577.924	569.015	564.618	560.674	556.858	553.471	555.130
170	592.737	587.192	581.601	579.002	576.555	574.223	572.019	569.908	567.959	569.050
175	584.501	583.387	582.239	581.056	579.849	578.631	577.367	576.160	574.954	575.430
180	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628	681.628
5	648.208	634.810	621.725	609.093	596.994	585.510	574.734	564.746	555.628	547.439
10	607.272	581.369	556.197	531.930	508.741	488.963	470.496	453.432	437.888	423.980
15	559.074	522.209	488.812	455.961	426.520	398.530	372.151	350.146	331.656	314.383
20	503.208	460.416	419.120	381.188	344.740	315.566	288.550	262.589	239.215	223.868
25	440.127	393.020	349.288	307.852	274.247	241.500	214.124	192.954	173.002	155.811
30	376.118	328.790	282.518	245.688	209.786	183.025	158.816	138.353	124.398	110.594
35	310.787	265.698	225.330	189.741	161.124	136.230	117.195	101.222	88.984	80.434
40	248.159	208.185	174.940	144.687	121.545	102.498	86.536	75.748	66.271	60.239
45	193.372	160.985	133.342	110.966	91.791	77.569	66.712	57.408	52.072	46.899
50	146.728	122.705	101.256	84.460	70.980	60.100	51.980	46.551	41.841	38.686
55	110.177	92.696	77.674	64.693	54.984	47.711	42.154	37.851	34.614	32.074
60	83.242	69.739	59.148	50.344	43.396	38.106	34.278	31.007	28.292	26.181
65	60.448	51.840	44.590	38.663	34.000	30.299	27.086	24.604	22.840	21.414
70	43.129	37.433	32.631	28.780	25.764	23.014	20.625	18.618	17.064	15.938
75	27.886	24.801	22.028	19.674	17.562	15.231	13.352	12.029	11.240	10.602
80	15.683	14.280	12.029	10.266	8.886	7.900	7.099	6.624	6.612	6.589
85	6.206	4.536	3.793	3.747	3.329	3.202	3.202	3.260	3.225	3.167
90	1.357	1.554	1.554	1.462	1.659	1.659	1.659	1.752	1.844	1.949
95	34.812	26.958	28.362	33.048	35.392	34.916	33.454	33.176	30.380	26.877
100	89.912	92.185	95.259	99.134	108.901	103.982	99.284	99.911	102.347	97.127
105	135.720	144.594	157.087	177.109	198.789	212.663	211.851	204.601	201.422	190.020
110	187.386	198.696	216.746	242.336	277.136	314.754	347.977	366.966	378.670	384.354
115	235.306	248.890	270.848	302.551	344.392	389.540	434.559	487.525	526.721	556.127
120	281.590	297.285	321.169	354.194	396.430	453.293	516.351	574.525	628.418	678.646
125	324.371	340.425	363.463	392.382	441.415	500.343	565.036	635.390	702.310	761.760
130	363.045	378.926	402.160	433.759	480.820	534.284	594.871	661.200	729.188	797.570
135	396.732	409.932	436.949	470.450	509.924	557.624	612.004	671.292	732.412	794.043

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CANDELA TABULATION - (Cont.)

140	430.186	444.825	468.257	496.376	531.918	573.388	619.266	670.352	721.091	772.305
145	461.193	475.148	493.928	517.812	547.485	580.986	619.104	659.727	701.278	742.458
150	488.940	501.503	515.110	535.781	557.937	585.498	613.802	643.962	677.196	707.507
155	515.388	523.694	535.120	547.972	566.312	585.000	605.764	628.059	649.797	671.408
160	538.820	542.091	551.197	560.373	569.908	583.828	598.189	611.610	624.335	639.241
165	557.252	559.596	562.101	568.841	575.290	581.717	588.062	596.112	605.021	612.828
170	570.279	571.555	572.901	574.293	575.720	579.292	582.865	586.380	589.814	593.131
175	575.917	576.462	576.996	577.541	578.074	578.620	579.153	579.687	580.197	580.696
180	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680	577.680

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	681.628	681.628	681.628	681.628	681.628	681.628	681.628
5	540.258	534.134	529.111	525.236	522.545	521.060	520.794
10	411.881	400.803	391.720	384.714	379.854	377.162	376.687
15	299.199	286.265	275.697	266.974	260.733	257.230	256.511
20	210.262	197.919	187.630	179.742	173.733	170.195	169.383
25	144.814	135.302	127.194	120.582	115.884	112.810	112.021
30	100.305	93.786	88.079	83.334	79.820	77.604	77.012
35	72.048	67.431	63.730	60.610	58.186	56.747	56.399
40	55.077	51.005	48.720	46.632	45.054	44.126	43.755
45	43.836	40.786	39.208	37.897	36.737	36.122	35.983
50	36.169	34.220	32.782	31.854	31.088	30.578	30.531
55	29.858	28.733	27.852	27.237	26.529	26.158	26.065
60	24.847	23.757	22.887	22.400	22.434	22.318	22.365
65	20.242	19.210	18.514	17.876	17.377	17.818	17.887
70	15.440	15.092	14.581	14.129	13.131	12.748	13.421
75	10.289	10.243	10.278	10.301	10.196	8.677	9.141
80	6.508	6.554	6.554	6.600	6.716	6.890	6.032
85	3.039	3.051	3.062	2.981	2.981	3.248	2.726
90	1.949	1.752	1.554	1.554	1.554	1.462	1.346
95	25.439	25.555	25.810	25.068	24.406	26.054	24.314
100	94.760	94.389	91.617	88.566	85.817	82.998	83.044
105	191.261	190.948	188.477	188.802	186.157	165.926	203.035
110	370.458	370.168	365.226	327.526	343.198	363.950	381.744
115	578.318	602.226	600.648	613.884	636.504	697.682	705.744
120	719.757	757.016	796.537	836.708	884.314	907.108	916.156
125	828.855	872.726	930.482	965.480	993.459	1015.232	1024.094
130	858.829	915.739	960.944	995.292	1026.716	1050.229	1058.512
135	849.422	902.248	944.669	981.464	1012.065	1033.780	1039.453
140	821.002	866.091	903.710	936.839	963.450	979.701	985.002
145	781.620	817.127	848.470	874.895	895.497	908.814	913.628
150	736.983	764.359	788.058	807.789	823.542	832.103	835.641
155	692.682	712.298	729.164	742.771	753.559	758.965	761.749
160	653.358	665.364	675.828	684.910	690.583	694.121	696.012
165	620.159	626.957	633.140	637.258	640.216	642.304	643.510
170	596.344	598.572	600.520	602.168	603.502	604.511	605.195
175	581.172	581.624	582.053	582.448	582.807	583.132	583.410
180	577.680	577.680	577.680	577.680	577.680	577.680	577.680

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	244.10	N.A.	5.80
0-30	504.98	N.A.	12.00
0-40	791.59	N.A.	18.90
0-60	1229.4	N.A.	29.30
0-80	1381.92	N.A.	33.00
0-90	1390.47	N.A.	33.20
10-90	1326.46	N.A.	31.60
20-40	547.49	N.A.	13.10
20-50	801.08	N.A.	19.10
40-70	546.57	N.A.	13.00
60-80	152.52	N.A.	3.60
70-80	43.77	N.A.	1.00
80-90	8.55	N.A.	0.20
90-110	266.15	N.A.	6.30
90-120	716.21	N.A.	17.10
90-130	1292.98	N.A.	30.80
90-150	2272.47	N.A.	54.20
90-180	2801.41	N.A.	66.80
110-180	2535.26	N.A.	60.50
0-180	4191.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	64.01
10-20	180.09
20-30	260.88
30-40	286.61
40-50	253.60
50-60	184.21
60-70	108.76
70-80	43.77
80-90	8.55
90-100	48.28
100-110	217.87
110-120	450.06
120-130	576.77
130-140	545.80
140-150	433.69
150-160	300.37
160-170	172.71
170-180	55.87

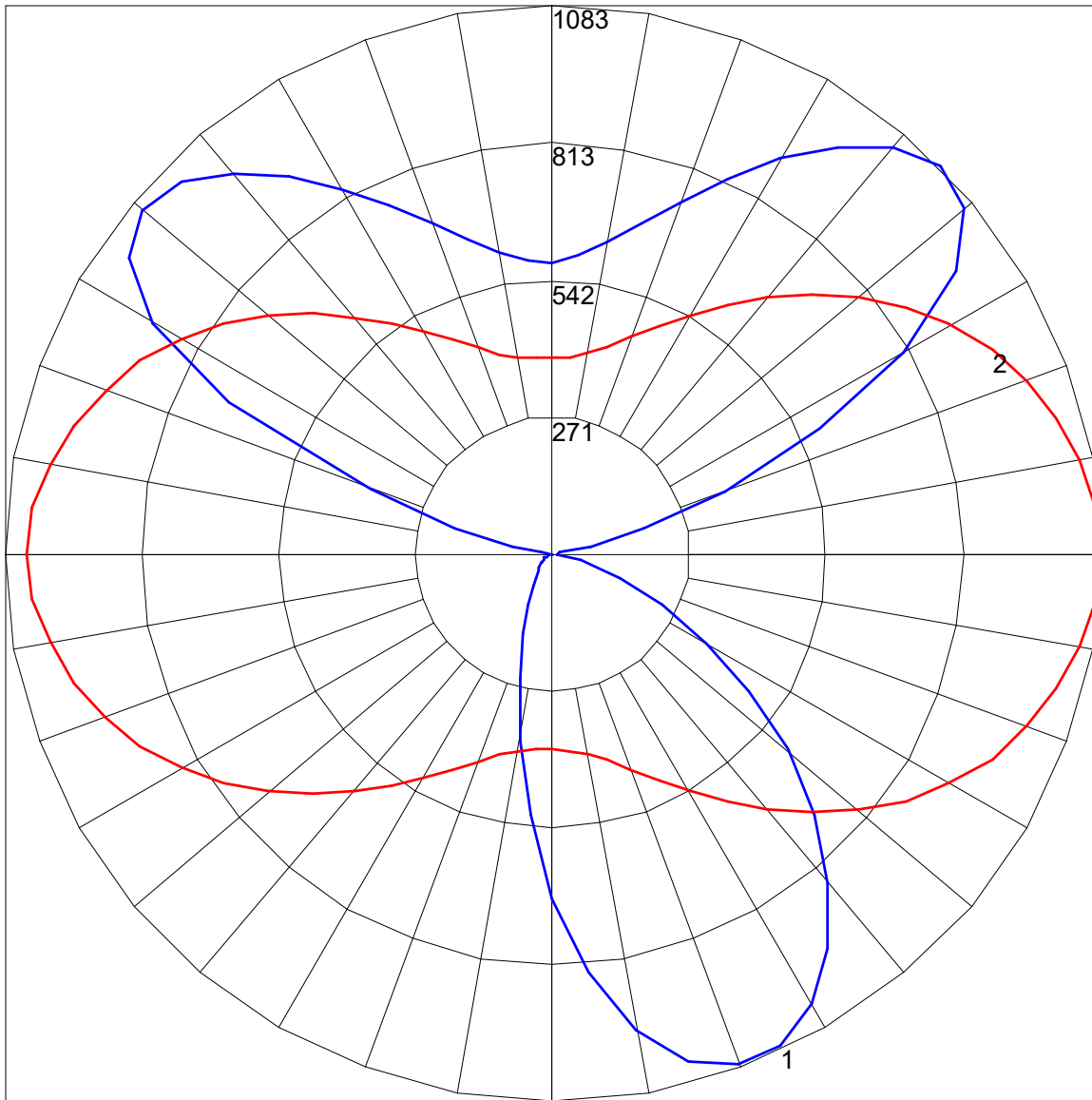
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_207_BX_SO_35_G1A1_BL.IES

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	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 = 1083.405 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.)