

IES Report

DoubleBox™ | 107 | Wide Batwing, up | 85° Asymmetric, down | 80 CRI | SO

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-SO-35-G1A1-X-AL / WH-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	99	102	104	104
Total Lumens, 4' rail length (1219mm)	4711	4860	4959	4959
Lumens per foot (305mm)	1178	1215	1240	1240
Lumens per foot UP (305mm)	743	766	782	782
Lumens per foot DOWN (305mm)	435	449	458	458
Input Power (W), 4' rail length (1219mm)	47.8	47.8	47.8	47.8
Watts per foot (305mm)	12.0	12.0	12.0	12.0
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_107_DB_SO_35_G1A1.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022010902 / L121911511 (SOURCE REPORTS FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB
[ISSUE DATE] 3/18/2020
[MANUFAC] Vode Lighting
[LUMCAT] 107-DB-48-Z-SO-35-G1A1-AL
[LUMINAIRE] DoubleBox LED, 48", 3500K, 80 CRI, zipper board, wide batwing lens up /
[MORE] 85° asymmetric lens down, standard output, clear anodized finish
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4960
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	47.84
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)	0.07 ft
Luminous Width (90-270)	3.84 ft
Luminous Height	0.21 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12986	13452	18721
55	8132	8340	14507
65	4049	4540	11295
75	1072	1816	8214
85	5	10	3847

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	836.232	836.232	836.232	836.232	836.232	836.232	836.232	836.232	836.232	836.232
5	982.474	980.525	979.550	976.836	973.623	969.737	964.586	959.912	952.430	944.936
10	1143.493	1141.069	1138.540	1132.891	1125.989	1116.175	1104.598	1091.862	1075.726	1058.604
15	1244.228	1242.000	1238.880	1232.082	1222.454	1211.168	1196.586	1179.569	1158.562	1135.037
20	1283.714	1283.227	1279.039	1272.427	1262.904	1250.260	1235.191	1215.935	1192.990	1166.740
25	1272.230	1270.676	1266.697	1260.468	1250.840	1238.590	1222.454	1202.618	1177.818	1150.685
30	1223.614	1222.060	1218.070	1211.272	1200.867	1187.248	1170.046	1149.038	1122.393	1092.442
35	1146.996	1145.245	1140.872	1133.285	1121.418	1106.060	1086.514	1061.818	1033.038	1000.465
40	1044.116	1042.666	1037.794	1029.338	1016.311	999.491	977.022	949.309	918.291	883.096
45	918.105	916.249	911.980	903.617	890.196	872.308	849.062	820.282	787.907	751.344
50	772.247	770.982	767.479	760.090	748.815	730.533	708.366	681.628	650.795	618.419
55	616.088	615.113	612.492	607.434	598.386	584.292	565.628	542.091	515.736	488.418
60	459.928	459.638	458.757	456.042	450.300	440.962	427.738	410.628	391.082	371.246
65	317.968	318.153	318.640	318.443	316.402	312.133	304.929	294.721	282.564	270.118
70	191.168	191.748	193.302	195.251	197.003	197.293	195.936	192.432	187.468	181.447
75	84.599	85.272	87.708	91.106	95.387	99.957	103.553	105.885	106.859	106.476
80	12.841	13.131	14.001	15.846	18.479	22.272	27.225	33.153	38.988	43.755
85	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.394	0.580
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	26.355	32.422	30.589	31.285	32.341	34.116	34.997	42.027	46.040	49.138
100	101.802	106.848	109.365	114.573	121.278	128.424	136.660	143.620	152.923	153.735
105	244.354	227.604	243.577	249.957	257.242	269.143	278.168	285.778	292.981	291.137
110	455.555	440.568	442.076	451.704	467.271	468.106	484.312	472.375	460.427	431.833
115	728.689	725.696	699.990	686.755	680.537	676.756	658.196	632.154	599.105	558.192
120	927.339	921.539	908.767	884.744	862.680	831.813	799.043	761.853	704.607	644.670
125	1056.563	1049.812	1034.140	1014.339	989.584	942.883	900.740	839.678	778.476	709.560
130	1111.802	1105.840	1088.753	1062.896	1031.402	989.480	936.224	878.445	812.360	744.418
135	1111.210	1106.188	1090.214	1065.077	1030.312	990.025	939.101	886.310	825.282	764.336
140	1075.239	1070.112	1055.623	1033.096	1003.156	965.944	921.980	874.118	822.939	770.344
145	1018.445	1013.875	1002.298	984.399	959.030	928.151	892.144	851.254	808.833	765.554
150	952.325	948.196	939.728	925.135	905.670	881.078	852.171	820.816	788.800	753.988
155	883.676	880.672	875.069	863.910	849.828	831.813	810.620	787.860	764.220	740.300
160	819.111	817.522	812.928	806.629	796.607	785.181	772.050	756.262	739.697	724.861
165	763.790	762.619	759.719	756.297	751.657	744.732	737.041	728.631	719.571	709.085
170	722.460	721.822	720.418	718.852	716.915	714.641	712.031	707.902	703.621	699.155
175	697.670	697.369	697.125	696.394	695.849	695.258	694.620	693.935	693.216	692.462
180	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040

Vert. 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	836.232	836.232	836.232	836.232	836.232	836.232	836.232	836.232	836.232	836.232
5	937.257	927.629	915.379	902.445	889.326	875.417	860.824	845.663	830.003	810.654
10	1039.847	1017.181	991.904	964.876	937.164	907.306	876.484	844.109	811.629	780.610
15	1109.076	1078.058	1042.759	1004.548	964.482	921.307	876.287	828.843	781.480	734.326
20	1136.788	1101.002	1059.973	1014.072	965.456	911.493	854.607	795.192	735.881	675.596
25	1117.927	1079.519	1035.080	985.002	931.526	869.965	806.188	738.804	671.512	608.304
30	1058.222	1018.155	972.266	920.634	865.105	801.711	735.394	664.808	594.987	529.157
35	964.285	922.966	876.774	826.117	771.667	710.117	645.644	577.970	510.783	447.284
40	845.373	804.147	759.313	711.672	661.792	605.682	548.019	488.615	426.474	370.666
45	714.490	674.726	634.369	591.194	547.833	499.983	448.642	393.414	348.986	302.598
50	582.448	548.993	514.089	478.303	442.331	403.529	363.660	322.724	282.182	242.602
55	460.021	432.993	405.571	377.476	350.923	321.274	288.109	256.024	224.228	192.722
60	351.898	332.154	311.831	291.415	270.802	248.437	224.135	199.914	175.021	151.009

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1A1.IES

CANDELA TABULATION - (Cont.)

65	256.998	243.670	230.643	217.222	202.733	186.598	169.093	151.299	133.307	115.327
70	174.928	167.736	160.242	151.983	142.552	132.147	120.860	108.715	96.454	84.796
75	105.212	102.880	99.864	96.071	91.211	85.272	78.764	71.468	63.986	57.084
80	47.166	49.103	49.683	49.300	48.036	45.704	42.885	39.579	35.879	32.573
85	1.844	4.860	9.535	13.027	14.778	15.266	15.068	14.488	13.618	13.027
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	49.868	61.700	60.262	48.360	44.985	45.286	44.393	42.746	43.662	42.746
100	153.491	152.853	141.566	126.104	115.571	106.244	97.892	94.702	95.097	94.702
105	283.144	261.128	235.619	205.540	183.025	166.309	154.315	148.236	147.308	148.236
110	392.138	356.514	317.585	277.623	247.579	227.383	212.790	205.413	205.076	205.413
115	504.217	444.547	390.990	344.996	309.998	286.044	269.538	260.733	260.014	260.733
120	580.510	512.511	453.606	406.383	368.451	342.560	326.749	316.552	312.423	316.552
125	636.422	568.922	509.136	459.662	420.036	392.846	376.501	366.618	361.723	366.618
130	676.814	613.652	557.148	508.486	469.127	439.582	419.676	407.056	397.602	407.056
135	702.879	645.946	593.537	550.002	513.845	486.400	468.269	456.994	452.342	456.994
140	717.344	668.995	623.639	583.364	551.870	525.990	508.706	498.174	493.278	498.174
145	723.040	682.869	645.389	611.738	584.211	562.565	546.337	537.846	532.950	537.846
150	721.300	689.840	659.367	634.276	610.682	594.848	580.325	574.339	570.291	574.339
155	715.813	692.381	670.932	650.041	634.996	621.690	611.761	606.599	602.864	606.599
160	709.189	692.624	676.616	665.167	654.124	643.498	638.847	634.903	631.933	634.903
165	699.352	691.372	683.379	675.445	667.615	664.054	661.084	658.381	656.247	658.381
170	694.550	689.852	685.200	682.973	680.932	679.029	677.278	675.630	674.238	675.630
175	691.685	690.884	690.061	689.237	688.414	687.590	686.755	685.978	685.224	685.978
180	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	836.232	836.232	836.232	836.232	836.232	836.232	836.232	836.232	836.232	836.232
5	796.073	779.056	764.475	751.146	737.238	724.606	713.029	701.266	766.122	759.510
10	750.369	719.838	689.991	662.662	635.239	621.528	600.428	578.364	560.756	543.843
15	690.084	645.934	604.221	566.010	528.577	496.004	466.633	498.916	475.391	456.425
20	620.855	567.078	517.395	473.152	431.044	440.475	407.810	377.661	354.914	335.855
25	547.833	489.195	436.299	390.502	347.907	313.490	284.420	263.900	243.577	226.850
30	467.410	409.271	358.022	314.754	275.952	245.618	222.871	201.573	185.240	172.492
35	389.435	336.052	289.571	252.033	219.078	194.277	175.415	158.688	146.346	137.008
40	319.522	273.134	233.949	202.838	176.482	156.739	141.381	129.816	120.965	114.156
45	259.712	221.212	189.416	164.616	143.712	129.131	117.752	108.808	102.486	97.823
50	207.118	176.877	152.656	133.412	117.949	106.859	98.797	93.635	89.065	85.863
55	165.787	142.065	123.679	109.191	97.916	90.619	84.692	80.411	77.500	75.551
60	130.593	112.798	98.797	88.775	81.293	75.655	71.665	71.468	69.426	68.069
65	100.642	88.682	78.660	71.375	65.830	61.944	59.508	57.861	56.782	56.202
70	74.878	66.317	59.798	55.030	51.539	49.207	47.746	46.771	46.284	45.994
75	51.144	46.191	42.398	39.765	37.828	36.760	36.169	35.786	35.682	35.786
80	29.951	27.910	26.355	25.381	24.894	24.604	24.696	24.801	25.184	25.578
85	12.841	12.841	13.027	13.224	13.618	14.198	14.581	14.778	14.686	14.581
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	44.393	45.286	44.985	48.360	60.262	61.700	49.868	49.138	46.040	42.027
100	97.892	106.244	115.571	126.104	141.566	152.853	153.491	153.735	152.923	143.620
105	154.315	166.309	183.025	205.540	235.619	261.128	283.144	291.137	292.981	285.778
110	212.790	227.383	247.579	277.623	317.585	356.514	392.138	431.833	460.427	472.375
115	269.538	286.044	309.998	344.996	390.990	444.547	504.217	558.192	599.105	632.154
120	326.749	342.560	368.451	406.383	453.606	512.511	580.510	644.670	704.607	761.853
125	376.501	392.846	420.036	459.662	509.136	568.922	636.422	709.560	778.476	839.678
130	419.676	439.582	469.127	508.486	557.148	613.652	676.814	744.418	812.360	878.445
135	468.269	486.400	513.845	550.002	593.537	645.946	702.879	764.336	825.282	886.310

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1A1.IES

CANDELA TABULATION - (Cont.)

140	508.706	525.990	551.870	583.364	623.639	668.995	717.344	770.344	822.939	874.118
145	546.337	562.565	584.211	611.738	645.389	682.869	723.040	765.554	808.833	851.254
150	580.325	594.848	610.682	634.276	659.367	689.840	721.300	753.988	788.800	820.816
155	611.761	621.690	634.996	650.041	670.932	692.381	715.813	740.300	764.220	787.860
160	638.847	643.498	654.124	665.167	676.616	692.624	709.189	724.861	739.697	756.262
165	661.084	664.054	667.615	675.445	683.379	691.372	699.352	709.085	719.571	728.631
170	677.278	679.029	680.932	682.973	685.200	689.852	694.550	699.155	703.621	707.902
175	686.755	687.590	688.414	689.237	690.061	690.884	691.685	692.462	693.216	693.935
180	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040	689.040

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	836.232	836.232	836.232	836.232	836.232	836.232	836.232
5	755.914	754.940	756.401	760.287	762.132	758.733	844.399
10	530.329	582.935	578.167	576.126	574.571	569.316	645.064
15	439.988	428.806	420.256	414.909	410.918	405.374	463.432
20	320.879	310.474	301.043	294.721	290.441	285.383	324.765
25	213.428	203.220	220.040	214.403	210.517	206.724	231.814
30	162.191	168.803	166.077	161.797	158.688	156.159	171.529
35	129.514	136.520	131.857	128.841	126.985	125.141	134.572
40	109.191	105.502	110.072	108.124	107.056	105.989	112.021
45	95.190	97.916	96.268	95.190	94.714	94.227	98.403
50	83.717	85.376	85.086	84.692	84.494	84.309	87.128
55	74.286	76.235	75.841	75.655	75.458	75.354	77.395
60	67.292	66.897	66.804	66.700	66.700	66.607	68.254
65	55.819	57.466	57.466	57.664	57.861	57.664	58.928
70	45.994	47.456	47.641	47.838	48.036	48.036	49.207
75	35.983	37.248	37.538	37.828	38.025	38.118	38.895
80	25.961	27.028	27.422	27.712	28.107	28.292	28.977
85	14.581	14.686	15.173	15.266	15.463	15.556	15.950
90	5.661	5.661	5.661	5.661	5.661	5.661	5.661
95	34.997	34.116	32.341	31.285	30.589	32.422	26.355
100	136.660	128.424	121.278	114.573	109.365	106.848	101.802
105	278.168	269.143	257.242	249.957	243.577	227.604	244.354
110	484.312	468.106	467.271	451.704	442.076	440.568	455.555
115	658.196	676.756	680.537	686.755	699.990	725.696	728.689
120	799.043	831.813	862.680	884.744	908.767	921.539	927.339
125	900.740	942.883	989.584	1014.339	1034.140	1049.812	1056.563
130	936.224	989.480	1031.402	1062.896	1088.753	1105.840	1111.802
135	939.101	990.025	1030.312	1065.077	1090.214	1106.188	1111.210
140	921.980	965.944	1003.156	1033.096	1055.623	1070.112	1075.239
145	892.144	928.151	959.030	984.399	1002.298	1013.875	1018.445
150	852.171	881.078	905.670	925.135	939.728	948.196	952.325
155	810.620	831.813	849.828	863.910	875.069	880.672	883.676
160	772.050	785.181	796.607	806.629	812.928	817.522	819.111
165	737.041	744.732	751.657	756.297	759.719	762.619	763.790
170	712.031	714.641	716.915	718.852	720.418	721.822	722.460
175	694.620	695.258	695.849	696.394	697.125	697.369	697.670
180	689.040	689.040	689.040	689.040	689.040	689.040	689.040

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1A1.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	306.22	N.A.	6.20
0-30	631.82	N.A.	12.70
0-40	992.64	N.A.	20.00
0-60	1581.16	N.A.	31.90
0-80	1817.12	N.A.	36.60
0-90	1832.46	N.A.	36.90
10-90	1752.46	N.A.	35.30
20-40	686.42	N.A.	13.80
20-50	1018.27	N.A.	20.50
40-70	751.49	N.A.	15.20
60-80	235.96	N.A.	4.80
70-80	72.99	N.A.	1.50
80-90	15.34	N.A.	0.30
90-110	313.65	N.A.	6.30
90-120	813.90	N.A.	16.40
90-130	1437.81	N.A.	29.00
90-150	2515.37	N.A.	50.70
90-180	3127.12	N.A.	63.10
110-180	2813.47	N.A.	56.70
0-180	4959.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.01
10-20	226.21
20-30	325.60
30-40	360.82
40-50	331.85
50-60	256.67
60-70	162.98
70-80	72.99
80-90	15.34
90-100	58.78
100-110	254.87
110-120	500.25
120-130	623.92
130-140	594.25
140-150	483.30
150-160	343.63
160-170	201.85
170-180	66.27

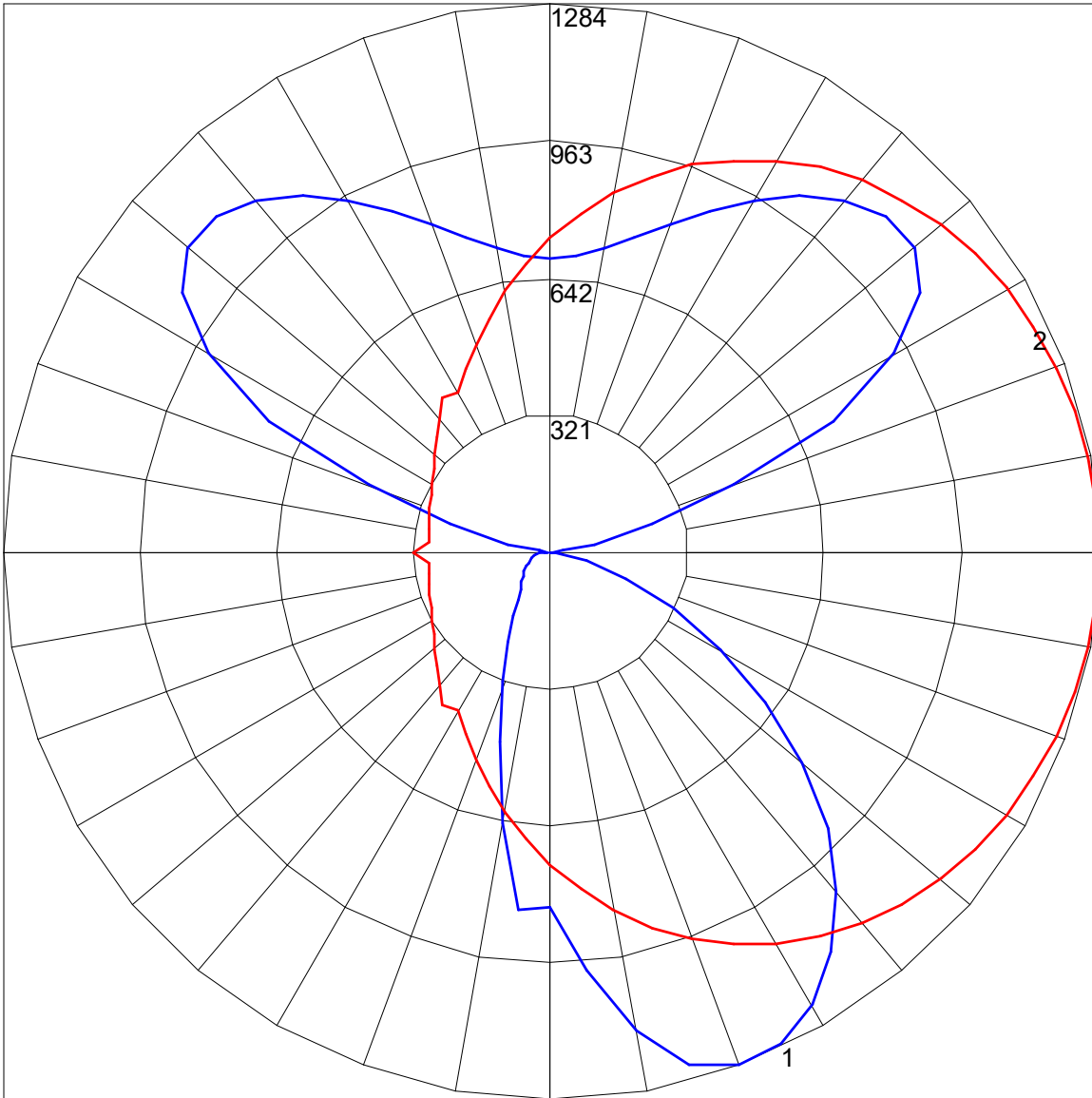
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_SO_35_G1A1.IES

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37	0
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32	0
2	87	80	74	70	79	73	68	64	59	56	53	47	45	43	35	34	33	27	0
3	80	71	64	58	72	64	59	54	53	48	45	42	39	36	32	30	28	24	0
4	73	63	55	49	66	57	51	46	47	42	39	37	34	31	29	26	25	21	0
5	67	56	48	43	61	51	44	39	42	37	33	34	30	27	26	24	22	18	0
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16	0
7	57	45	38	32	52	42	35	30	35	29	26	28	24	21	22	19	17	14	0
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13	0
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12	0
10	46	34	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11	0

POLAR GRAPH



Maximum Candela = 1283.714 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (20) (Through Max. Cd.)