

IES Report

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

107-DB-XX-4-48-XX-XX-XX-XX-X-X-Z-LO-35-G1A1-X-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	80	82	84	84
Total Lumens, 4' rail length (1219mm)	2192	2261	2307	2307
Lumens per foot (305mm)	548	565	577	577
Lumens per foot UP (305mm)	371	383	391	391
Lumens per foot DOWN (305mm)	177	182	186	186
Input Power (W), 4' rail length (1219mm)	27.6	27.6	27.6	27.6
Watts per foot (305mm)	6.9	6.9	6.9	6.9
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_107_DB_LO_35_G1A1_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022010902 / L121911514 (SOURCE REPORTS FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 3/18/20

[MANUFAC] Vode Lighting

[LUMCAT] 107-DB-48-Z-LO-35-G1A1-BL

[LUMINAIRE] DoubleBox 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	2307
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	27.64
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	5167	5113	7767
55	3112	2862	4655
65	1485	1392	2920
75	334	513	1873
85	0	2	824

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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	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950
5	497.072	497.460	497.460	496.341	494.154	492.159	489.387	486.666	483.703	480.246
10	540.827	540.873	540.873	538.443	535.479	532.075	528.136	523.566	518.172	512.436
15	559.108	558.720	558.233	555.657	552.641	548.848	544.034	538.733	532.028	524.784
20	557.067	556.771	555.947	553.616	550.258	546.128	541.070	534.946	527.701	519.384
25	541.117	540.438	539.029	536.691	532.950	528.136	522.742	515.643	507.135	497.652
30	511.073	510.684	509.130	506.212	501.787	496.387	489.294	480.733	470.571	459.540
35	472.277	471.691	469.551	466.001	460.804	453.896	445.486	434.936	422.687	409.555
40	422.489	421.712	419.236	415.297	409.120	400.757	390.595	378.491	364.878	349.955
45	365.313	364.489	361.816	357.587	351.167	342.026	330.310	316.842	302.163	285.580
50	301.142	300.411	298.271	294.333	288.011	278.968	267.740	254.028	238.618	223.010
55	235.799	235.312	233.415	230.306	224.762	216.839	206.822	195.298	181.540	167.637
60	173.861	173.519	172.353	170.114	166.274	160.196	152.418	142.744	131.805	120.814
65	116.586	116.441	116.000	115.078	113.036	109.440	104.481	97.968	90.480	82.847
70	67.193	67.286	67.582	67.970	67.825	66.851	64.809	61.648	57.611	53.238
75	26.349	26.547	27.370	28.687	30.195	31.453	32.283	32.329	31.506	30.096
80	2.140	2.187	2.430	2.917	3.695	4.860	6.421	8.364	10.208	11.571
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.099
90	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95	13.178	16.211	15.295	15.643	16.170	17.058	17.499	21.013	23.020	24.569
100	50.901	53.424	54.682	57.287	60.639	64.212	68.330	71.810	76.461	76.867
105	122.177	113.802	121.788	124.978	128.621	134.572	139.084	142.889	146.491	145.568
110	227.778	220.284	221.038	225.852	233.636	234.053	242.156	236.188	230.214	215.917
115	364.344	362.848	349.995	343.377	340.269	338.378	329.098	316.077	299.553	279.096
120	463.669	460.769	454.384	442.372	431.340	415.906	399.521	380.927	352.304	322.335
125	528.281	524.906	517.070	507.169	494.792	471.441	450.370	419.839	389.238	354.780
130	555.901	552.920	544.376	531.448	515.701	494.740	468.112	439.222	406.180	372.209
135	555.605	553.094	545.107	532.539	515.156	495.013	469.551	443.155	412.641	382.168
140	537.619	535.056	527.812	516.548	501.578	482.972	460.990	437.059	411.469	385.172
145	509.223	506.937	501.149	492.200	479.515	464.075	446.072	425.627	404.417	382.777
150	476.163	474.098	469.864	462.567	452.835	440.539	426.085	410.408	394.400	376.994
155	441.838	440.336	437.535	431.955	424.914	415.906	405.310	393.930	382.110	370.150
160	409.555	408.761	406.464	403.315	398.303	392.590	386.025	378.131	369.849	362.430
165	381.895	381.309	379.859	378.148	375.828	372.366	368.520	364.315	359.786	354.542
170	361.230	360.911	360.209	359.426	358.457	357.321	356.016	353.951	351.811	349.578
175	348.835	348.684	348.563	348.197	347.925	347.629	347.310	346.968	346.608	346.231
180	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

**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	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950
5	476.847	472.613	468.240	465.131	459.343	453.409	448.259	468.483	462.846	457.255
10	505.772	498.284	490.164	482.438	472.132	461.431	450.492	463.524	451.907	439.507
15	516.177	506.404	495.465	484.091	470.769	455.451	440.237	446.797	430.464	413.012
20	509.663	498.527	486.133	473.002	456.866	439.118	420.448	420.738	400.322	377.180
25	486.666	474.028	460.021	445.486	428.278	407.856	386.854	381.698	358.365	333.570
30	447.238	433.237	417.675	401.198	383.206	362.790	341.150	332.207	307.214	282.182
35	395.363	379.558	362.883	345.187	327.103	306.977	285.047	274.009	250.920	226.902
40	333.372	316.309	299.100	281.694	264.190	245.665	226.217	215.279	195.495	174.151
45	268.470	251.888	235.068	218.683	202.200	187.763	171.378	160.927	144.785	127.037
50	206.770	192.137	176.970	162.771	149.692	137.100	124.317	115.275	103.020	90.039
55	153.584	140.702	128.110	117.119	106.621	97.040	89.552	80.951	71.955	62.524
60	109.875	99.621	90.526	82.360	74.971	67.918	61.358	56.492	50.222	43.807

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CANDELA TABULATION - (Cont.)

65	75.458	68.063	61.793	56.202	50.999	46.238	42.688	38.605	34.469	30.288
70	48.813	44.289	40.351	36.807	33.594	30.676	28.490	25.862	23.188	20.468
75	28.200	26.106	24.163	22.266	20.515	18.862	17.696	16.188	14.587	12.980
80	12.203	12.157	11.716	11.182	10.452	9.773	9.332	8.706	7.923	7.099
85	0.342	0.974	1.995	2.917	3.207	3.260	3.207	3.115	2.917	2.720
90	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95	24.934	30.850	30.131	24.180	22.492	22.643	22.197	21.373	21.831	21.373
100	76.746	76.427	70.783	63.052	57.785	53.122	48.946	47.351	47.548	47.351
105	141.572	130.564	117.810	102.770	91.512	83.155	77.157	74.118	73.654	74.118
110	196.069	178.257	158.792	138.811	123.789	113.692	106.395	102.706	102.538	102.706
115	252.109	222.273	195.495	172.498	154.999	143.022	134.769	130.367	130.007	130.367
120	290.255	256.256	226.803	203.191	184.225	171.280	163.374	158.276	156.211	158.276
125	318.211	284.461	254.568	229.831	210.018	196.423	188.251	183.309	180.861	183.309
130	338.407	306.826	278.574	254.243	234.564	219.791	209.838	203.528	198.801	203.528
135	351.439	322.973	296.769	275.001	256.923	243.200	234.134	228.497	226.171	228.497
140	358.672	334.498	311.820	291.682	275.935	262.995	254.353	249.087	246.639	249.087
145	361.520	341.434	322.695	305.869	292.105	281.283	273.168	268.923	266.475	268.923
150	360.650	344.920	329.684	317.138	305.341	297.424	290.162	287.170	285.145	287.170
155	357.906	346.190	335.466	325.020	317.498	310.845	305.880	303.299	301.432	303.299
160	354.595	346.312	338.308	332.584	327.062	321.749	319.423	317.451	315.967	317.451
165	349.676	345.686	341.690	337.722	333.807	332.027	330.542	329.191	328.123	329.191
170	347.275	344.926	342.600	341.487	340.466	339.515	338.639	337.815	337.119	337.815
175	345.842	345.442	345.030	344.619	344.207	343.795	343.377	342.989	342.612	342.989
180	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

**Vert.
Angles**

Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950	455.950
5	452.000	446.652	441.595	436.444	431.729	427.501	423.075	419.381	415.634	411.794
10	427.982	416.266	404.405	393.124	381.605	371.148	361.427	351.851	343.145	334.979
15	395.850	378.003	360.163	343.290	325.937	310.230	295.353	281.109	268.563	256.899
20	355.395	332.549	309.743	288.353	266.330	247.271	229.431	212.750	198.267	185.281
25	308.775	282.814	256.946	233.369	209.299	188.784	170.456	153.584	139.484	126.649
30	256.070	230.840	205.071	181.343	158.589	139.293	122.467	107.497	95.050	84.593
35	203.563	178.478	154.895	133.847	113.813	97.579	83.816	71.810	62.472	54.938
40	153.485	131.805	112.746	95.584	79.733	67.239	56.933	48.326	41.371	36.366
45	110.560	94.122	79.588	66.706	55.036	45.895	39.382	32.816	28.298	24.696
50	77.935	66.074	55.570	46.139	39.573	32.329	27.324	23.241	20.225	17.841
55	53.917	45.895	40.159	32.184	27.080	22.898	19.546	16.872	14.923	13.369
60	37.828	32.428	27.422	23.287	19.645	16.919	14.686	12.934	11.617	10.597
65	26.402	22.753	19.494	16.774	14.390	12.592	11.182	10.017	9.141	8.410
70	18.038	15.706	13.665	11.913	10.504	9.332	8.364	7.633	7.001	6.513
75	11.617	10.260	9.042	8.074	7.198	6.513	5.933	5.493	5.104	4.768
80	6.421	5.788	5.203	4.768	4.327	4.037	3.695	3.451	3.260	3.115
85	2.529	2.332	2.187	2.088	1.943	1.850	1.752	1.508	1.409	1.264
90	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95	22.197	22.643	22.492	24.180	30.131	30.850	24.934	24.569	23.020	21.013
100	48.946	53.122	57.785	63.052	70.783	76.427	76.746	76.867	76.461	71.810
105	77.157	83.155	91.512	102.770	117.810	130.564	141.572	145.568	146.491	142.889
110	106.395	113.692	123.789	138.811	158.792	178.257	196.069	215.917	230.214	236.188
115	134.769	143.022	154.999	172.498	195.495	222.273	252.109	279.096	299.553	316.077
120	163.374	171.280	184.225	203.191	226.803	256.256	290.255	322.335	352.304	380.927
125	188.251	196.423	210.018	229.831	254.568	284.461	318.211	354.780	389.238	419.839
130	209.838	219.791	234.564	254.243	278.574	306.826	338.407	372.209	406.180	439.222
135	234.134	243.200	256.923	275.001	296.769	322.973	351.439	382.168	412.641	443.155

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CANDELA TABULATION - (Cont.)

140	254.353	262.995	275.935	291.682	311.820	334.498	358.672	385.172	411.469	437.059
145	273.168	281.283	292.105	305.869	322.695	341.434	361.520	382.777	404.417	425.627
150	290.162	297.424	305.341	317.138	329.684	344.920	360.650	376.994	394.400	410.408
155	305.880	310.845	317.498	325.020	335.466	346.190	357.906	370.150	382.110	393.930
160	319.423	321.749	327.062	332.584	338.308	346.312	354.595	362.430	369.849	378.131
165	330.542	332.027	333.807	337.722	341.690	345.686	349.676	354.542	359.786	364.315
170	338.639	339.515	340.466	341.487	342.600	344.926	347.275	349.578	351.811	353.951
175	343.377	343.795	344.207	344.619	345.030	345.442	345.842	346.231	346.608	346.968
180	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520	344.520

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	455.950	455.950	455.950	455.950	455.950	455.950	455.950
5	408.685	405.379	403.286	402.462	401.290	445.684	446.409
10	327.735	321.169	315.822	312.759	310.375	352.918	353.551
15	246.738	237.788	230.596	226.415	222.575	258.112	258.645
20	173.907	164.378	156.791	151.885	147.946	173.907	174.151
25	116.731	108.274	101.610	97.283	93.977	110.362	110.560
30	76.525	69.867	64.612	61.306	58.731	68.695	68.649
35	48.958	43.999	40.351	38.309	36.511	42.247	42.299
40	32.184	29.122	26.645	25.184	24.116	27.469	27.515
45	21.976	19.981	18.427	17.452	16.820	18.815	18.769
50	16.095	14.778	13.711	13.079	12.638	13.856	13.810
55	12.203	11.327	10.649	10.208	9.918	10.695	10.695
60	9.773	9.141	8.706	8.364	8.120	8.607	8.654
65	7.876	7.389	7.047	6.809	6.612	6.954	6.902
70	6.125	5.788	5.545	5.348	5.203	5.446	5.446
75	4.524	4.280	4.135	3.985	3.892	4.037	3.985
80	2.964	2.819	2.674	2.674	2.575	2.627	2.627
85	1.119	1.067	1.021	0.974	0.922	0.974	0.974
90	2.830	2.830	2.830	2.830	2.830	2.830	2.830
95	17.499	17.058	16.170	15.643	15.295	16.211	13.178
100	68.330	64.212	60.639	57.287	54.682	53.424	50.901
105	139.084	134.572	128.621	124.978	121.788	113.802	122.177
110	242.156	234.053	233.636	225.852	221.038	220.284	227.778
115	329.098	338.378	340.269	343.377	349.995	362.848	364.344
120	399.521	415.906	431.340	442.372	454.384	460.769	463.669
125	450.370	471.441	494.792	507.169	517.070	524.906	528.281
130	468.112	494.740	515.701	531.448	544.376	552.920	555.901
135	469.551	495.013	515.156	532.539	545.107	553.094	555.605
140	460.990	482.972	501.578	516.548	527.812	535.056	537.619
145	446.072	464.075	479.515	492.200	501.149	506.937	509.223
150	426.085	440.539	452.835	462.567	469.864	474.098	476.163
155	405.310	415.906	424.914	431.955	437.535	440.336	441.838
160	386.025	392.590	398.303	403.315	406.464	408.761	409.555
165	368.520	372.366	375.828	378.148	379.859	381.309	381.895
170	356.016	357.321	358.457	359.426	360.209	360.911	361.230
175	347.310	347.629	347.925	348.197	348.563	348.684	348.835
180	344.520	344.520	344.520	344.520	344.520	344.520	344.520

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	156.48	N.A.	6.80
0-30	308.43	N.A.	13.40
0-40	462.11	N.A.	20.00
0-60	674.28	N.A.	29.20
0-80	740.28	N.A.	32.10
0-90	743.44	N.A.	32.20
10-90	700.83	N.A.	30.40
20-40	305.63	N.A.	13.20
20-50	431.85	N.A.	18.70
40-70	260.06	N.A.	11.30
60-80	66.00	N.A.	2.90
70-80	18.10	N.A.	0.80
80-90	3.17	N.A.	0.10
90-110	156.83	N.A.	6.80
90-120	406.95	N.A.	17.60
90-130	718.91	N.A.	31.20
90-150	1257.68	N.A.	54.50
90-180	1563.56	N.A.	67.80
110-180	1406.73	N.A.	61.00
0-180	2307.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.61
10-20	113.87
20-30	151.95
30-40	153.68
40-50	126.22
50-60	85.95
60-70	47.90
70-80	18.10
80-90	3.17
90-100	29.39
100-110	127.43
110-120	250.12
120-130	311.96
130-140	297.13
140-150	241.65
150-160	171.82
160-170	100.92
170-180	33.14

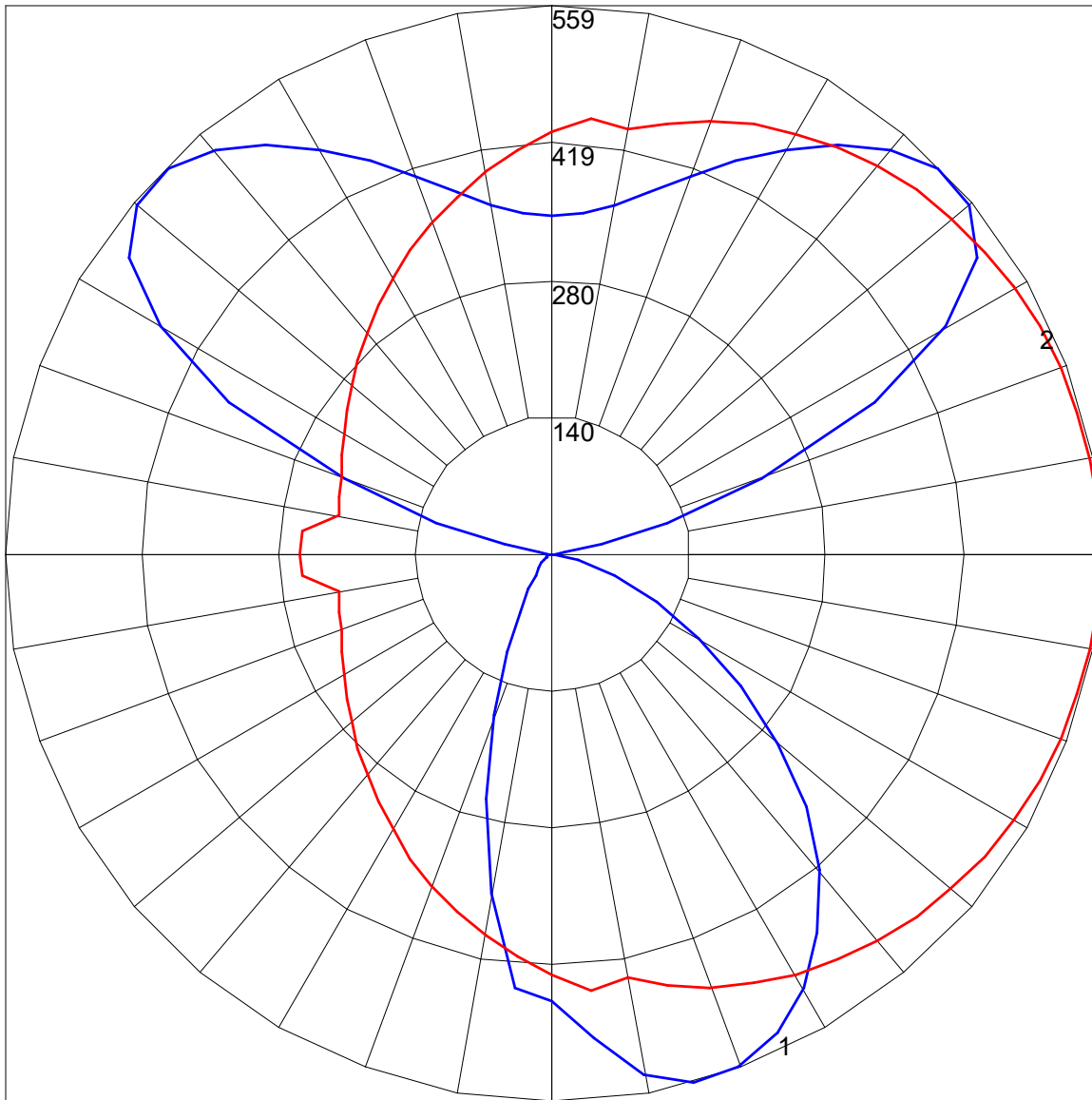
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_107_DB_LO_35_G1A1_BL.IES

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	73	73	73	56	56	56	40	40	40	32
1	95	91	87	84	85	82	79	76	65	63	62	50	49	48	36	36	35	29
2	87	80	74	70	78	72	68	64	58	55	52	45	43	41	33	32	30	25
3	79	71	64	59	71	64	58	54	52	48	44	40	38	35	30	28	27	22
4	73	63	56	50	66	57	51	46	46	42	38	36	33	31	27	25	24	20
5	67	56	49	43	60	51	45	40	42	37	34	33	30	27	25	23	21	17
6	62	51	43	38	56	46	40	35	38	33	30	30	27	24	22	20	19	16
7	57	46	38	33	52	42	35	31	34	30	26	27	24	22	21	19	17	14
8	53	42	35	30	48	38	32	27	31	27	23	25	22	19	19	17	15	13
9	50	38	31	26	45	35	29	25	29	24	21	23	20	18	18	16	14	12
10	46	35	28	24	42	32	26	22	27	22	19	21	18	16	17	14	13	11

POLAR GRAPH



Maximum Candela = 559.108 Located At Horizontal Angle = 0, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)