

IES Report

ZipTwo® | 707 | Square 3536/30, Soft Wash | 80 CRI | HO

707-Z2-4-48-XX-XX-X-0-Z-HO-35-A3-X-BL-0

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	87	89	91	91
Total Lumens, 4' rail length (1219mm)	3404	3511	3583	3583
Lumens per foot (305mm)	851	878	896	896
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_A3_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L092011502 (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-A3-BL

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

[MORE] square 3536/30 soft wash black lens, high output

[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3582
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	39.55
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.70
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21178	20834	20124
55	20231	19875	19194
65	19247	18865	18049
75	18280	17755	16772
85	17275	16687	15298

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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A3_BL.IES

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	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743
5	1137.073	1136.498	1135.907	1135.176	1133.279	1131.679	1129.643	1127.015	1124.249	1120.891
10	1189.586	1189.151	1187.689	1185.358	1182.139	1178.363	1172.951	1167.262	1160.858	1153.568
15	1228.962	1228.388	1225.900	1222.541	1217.582	1210.883	1203.158	1194.545	1184.766	1173.839
20	1254.644	1253.757	1250.555	1245.596	1239.176	1230.128	1219.775	1208.256	1195.276	1180.399
25	1265.432	1263.675	1260.317	1254.192	1246.171	1235.678	1222.837	1208.256	1192.213	1173.682
30	1260.769	1259.447	1254.923	1248.363	1238.880	1226.491	1211.753	1195.119	1176.310	1155.169
35	1242.099	1240.481	1235.818	1228.092	1217.582	1203.732	1187.550	1168.723	1147.426	1123.796
40	1210.292	1208.691	1203.001	1195.276	1184.035	1169.315	1151.080	1130.809	1107.475	1081.793
45	1166.827	1165.226	1159.693	1150.784	1138.969	1122.926	1103.821	1081.793	1057.154	1029.871
50	1113.443	1111.408	1105.857	1096.531	1083.985	1066.916	1047.236	1024.477	998.656	969.928
55	1051.604	1049.707	1043.582	1034.395	1021.276	1004.206	984.074	960.010	932.153	902.695
60	983.344	981.447	975.618	966.274	952.580	935.076	914.353	889.853	861.700	831.215
65	910.124	907.949	901.964	892.620	879.205	861.265	840.263	814.894	786.306	755.090
70	833.112	830.937	824.951	815.033	801.322	783.244	761.946	736.559	707.536	675.886
75	752.324	750.131	744.285	733.932	719.647	702.003	680.705	655.319	626.000	593.340
80	668.595	666.559	660.278	650.360	636.074	618.570	597.568	574.809	545.786	513.700
85	583.422	582.100	576.845	566.927	553.233	535.276	513.404	489.044	461.187	430.424
90	498.232	496.335	490.071	480.588	467.173	449.529	428.075	404.167	377.180	347.287
95	408.691	406.795	400.948	391.465	378.485	361.433	341.597	317.672	291.850	262.531
100	319.708	318.107	312.278	303.230	290.980	274.642	255.241	233.230	208.870	181.012
105	232.777	231.037	225.782	217.326	205.651	190.478	172.260	151.832	129.073	104.278
110	149.066	147.604	142.645	134.920	124.114	109.533	93.194	74.385	53.522	30.485
115	69.426	68.121	63.597	56.446	46.388	33.547	18.966	5.829	1.166	0.870
120	2.923	2.627	1.757	1.166	0.870	0.870	0.731	0.731	0.731	0.731
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743
5	1117.393	1113.739	1109.807	1105.283	1101.194	1096.670	1092.163	1087.343	1082.245	1077.721
10	1145.825	1137.229	1127.746	1118.559	1108.919	1098.566	1088.213	1077.860	1067.507	1057.154
15	1161.137	1148.452	1134.306	1119.429	1104.691	1089.240	1073.197	1057.294	1041.686	1024.912
20	1163.764	1146.556	1128.042	1108.345	1088.509	1067.803	1046.506	1025.643	1005.076	982.909
25	1153.568	1132.409	1109.511	1085.151	1060.791	1035.265	1009.304	983.779	958.549	931.857
30	1130.652	1106.014	1079.165	1051.169	1023.016	993.122	962.777	933.023	903.704	873.080
35	1096.391	1068.969	1038.623	1007.269	975.322	941.775	907.654	874.976	841.864	807.012
40	1051.900	1021.554	988.894	954.181	919.468	882.998	845.953	809.483	773.465	735.829
45	998.081	965.996	930.552	894.082	856.602	817.504	777.554	739.048	700.106	659.843
50	936.520	902.834	866.085	827.144	788.203	746.773	704.909	663.932	623.233	581.525
55	869.287	834.434	795.772	755.525	714.827	673.258	628.488	588.085	546.221	502.616
60	796.798	760.624	721.543	679.975	638.249	595.080	553.076	509.611	465.137	421.080

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PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A3_BL.IES

CANDELA TABULATION - (Cont.)

65	719.942	682.167	643.365	598.003	562.855	517.789	472.427	428.527	383.740	339.265
70	641.608	597.272	565.622	524.488	480.449	435.383	391.465	347.565	303.230	260.930
75	562.559	524.349	483.946	441.508	399.347	354.716	311.390	268.517	225.052	184.075
80	479.422	441.786	401.836	360.267	318.542	275.807	233.508	190.478	148.770	111.134
85	396.146	359.380	320.438	280.331	240.364	198.795	157.226	121.939	79.048	41.429
90	313.009	278.731	241.390	202.884	164.813	125.576	86.200	48.285	12.110	0.731
95	230.602	198.064	162.916	126.742	91.019	53.975	16.634	0.731	0.731	0.731
100	151.397	120.913	88.096	54.114	20.706	1.027	0.731	0.731	0.731	0.731
105	75.847	47.258	16.913	1.305	0.731	0.731	0.731	0.731	0.731	0.731
110	7.447	0.870	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
115	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
120	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743
5	1073.041	1067.942	1063.853	1059.782	1055.554	1051.604	1047.967	1044.313	1041.390	1038.484
10	1047.080	1036.431	1026.809	1017.326	1007.704	999.543	991.365	983.935	977.375	970.955
15	1009.600	994.149	979.115	965.108	951.119	937.982	926.463	915.083	905.026	895.978
20	962.638	942.210	922.966	904.435	887.226	870.452	854.410	839.689	826.987	814.894
25	906.627	882.563	859.073	837.062	815.329	795.058	775.936	757.996	742.249	727.807
30	844.492	815.764	789.073	763.112	738.021	714.983	692.659	672.388	654.449	637.536
35	774.926	743.119	713.365	684.638	656.641	630.820	606.164	584.153	564.021	545.351
40	700.976	666.263	633.743	602.962	572.912	544.916	518.363	494.003	472.271	452.296
45	622.798	586.049	551.911	518.798	486.574	456.959	428.962	403.001	380.381	359.240
50	542.723	504.078	468.199	433.765	400.217	368.723	340.274	313.583	290.545	269.387
55	462.649	422.837	385.793	350.488	316.071	284.264	255.536	228.549	204.920	183.048
60	380.381	339.979	301.472	266.324	232.934	201.718	172.991	145.412	122.374	100.642
65	298.706	260.060	221.850	185.815	152.702	122.670	93.490	66.955	43.761	22.759
70	219.953	181.882	144.403	110.560	76.421	46.388	19.401	3.497	2.923	3.202
75	145.273	107.793	71.323	37.915	8.456	0.000	0.000	0.000	0.000	0.000
80	73.950	37.045	6.995	1.601	1.757	0.000	0.000	0.000	0.000	0.000
85	8.752	1.166	1.166	1.462	1.601	0.000	0.000	0.000	0.000	0.000
90	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
95	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
100	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
105	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
110	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
115	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
120	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731	0.731
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A3_BL.IES

CANDELA TABULATION - (Cont.)

140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743	1085.743
5	1035.996	1033.960	1032.203	1030.602	1029.732	1029.140	1028.862
10	965.700	961.176	957.244	954.320	952.128	950.962	950.388
15	888.253	881.536	875.707	871.044	867.982	866.085	865.198
20	804.089	795.493	787.750	782.078	777.989	775.361	774.491
25	715.262	704.613	695.426	688.431	683.472	680.705	679.383
30	623.094	610.984	600.474	592.905	587.354	583.857	582.830
35	529.308	515.893	504.513	495.604	489.479	485.547	484.242
40	434.930	420.645	408.239	398.912	392.353	388.124	386.802
45	341.162	326.128	313.148	303.369	296.670	292.738	291.415
50	250.717	235.265	222.128	212.210	205.076	200.692	199.230
55	164.082	148.631	136.225	126.011	119.016	114.492	113.187
60	82.111	66.659	53.679	43.465	36.470	32.381	30.920
65	8.021	3.932	4.089	4.089	4.089	4.089	4.089
70	3.497	3.497	3.793	3.793	3.932	4.089	4.089
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.731	0.731	0.731	0.731	0.731	0.731	0.731
95	0.731	0.731	0.731	0.731	0.731	0.731	0.731
100	0.731	0.731	0.731	0.731	0.731	0.731	0.731
105	0.731	0.731	0.731	0.731	0.731	0.731	0.731
110	0.731	0.731	0.731	0.731	0.731	0.731	0.731
115	0.731	0.731	0.731	0.731	0.731	0.731	0.731
120	0.731	0.731	0.731	0.731	0.731	0.731	0.731
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	397.50	N.A.	11.10
0-30	842.38	N.A.	23.50
0-40	1375.89	N.A.	38.40
0-60	2433.04	N.A.	67.90
0-80	3162.82	N.A.	88.30
0-90	3382.27	N.A.	94.40
10-90	3279.38	N.A.	91.50
20-40	978.39	N.A.	27.30
20-50	1530.4	N.A.	42.70
40-70	1471.12	N.A.	41.10
60-80	729.79	N.A.	20.40
70-80	315.81	N.A.	8.80
80-90	219.45	N.A.	6.10
90-110	187.65	N.A.	5.20
90-120	199.78	N.A.	5.60
90-130	199.98	N.A.	5.60
90-150	199.98	N.A.	5.60
90-180	199.98	N.A.	5.60
110-180	12.33	N.A.	0.30
0-180	3582.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.89
10-20	294.62
20-30	444.87
30-40	533.52
40-50	552.00
50-60	505.14
60-70	413.98
70-80	315.81
80-90	219.45
90-100	130.15
100-110	57.50
110-120	12.13
120-130	0.20
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

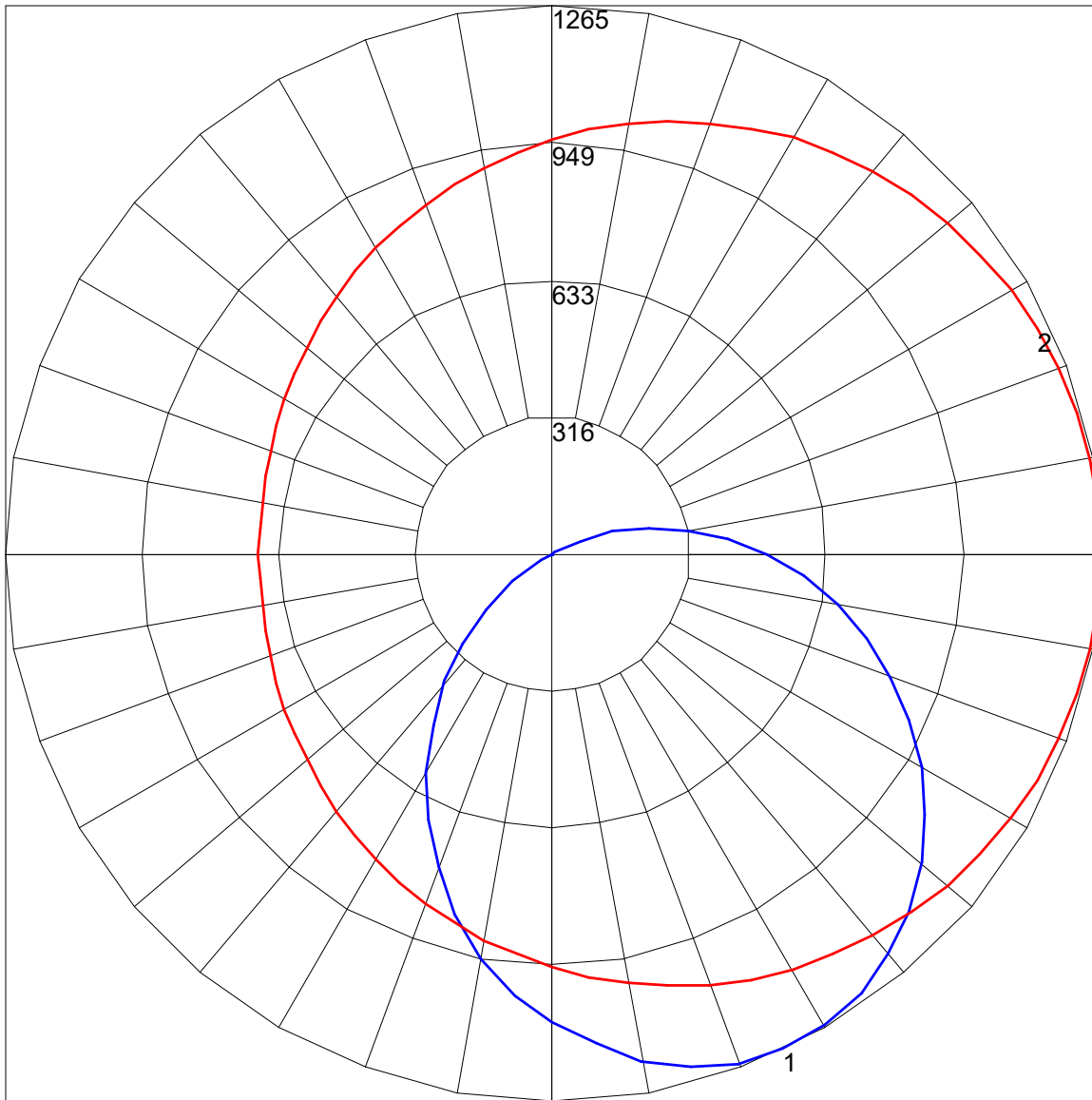
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_HO_35_A3_BL.IES

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	105	100	95	90	102	97	92	88	92	88	84	87	84	81	82	80	77	75
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	64	61
3	87	75	66	60	84	73	65	59	69	62	57	66	60	55	63	58	53	51
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	56	50	46	43
5	73	59	50	43	70	58	49	42	55	47	41	52	46	41	50	44	40	37
6	67	53	44	37	65	52	43	37	50	42	36	47	41	35	45	39	35	32
7	62	48	39	33	60	47	39	33	45	38	32	43	36	31	41	35	31	29
8	58	44	35	29	56	43	35	29	41	34	29	40	33	28	38	32	28	26
9	54	40	32	26	52	40	32	26	38	31	26	36	30	25	35	29	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	27	23	33	27	23	21

POLAR GRAPH



Maximum Candela = 1265.432 Located At Horizontal Angle = 0, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)