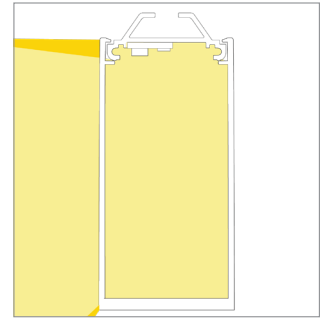
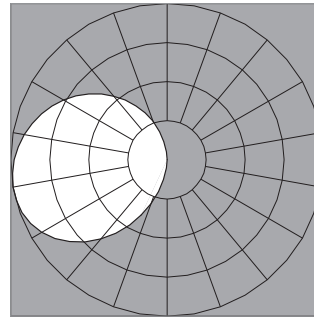




IES Report

ZipTwo® | 707 | Ceiling Cable | Square 3570, Single Side Diffuse | 80 CRI | SO

707-Z2-S-4-48-CC-XX-XX-XX-X-X-Z-SO-X-HA-BL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	94	97	99	99
Total Lumens, 4' rail length (1219mm)	2441	2518	2569	2569
Lumens per foot (305mm)	610	630	642	642
Input Power (W), 4' rail length (1219mm)	26.1	26.1	26.1	26.1
Watts per foot (305mm)	6.6	6.6	6.6	6.6
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_CC_SO_35_HA_BL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L082011204 (SOURCE REPORT FOR REFERENCE)

[TESTLAB] REPORT BASED ON DATA FROM NVLAP ACCREDITED LAB

[ISSUE DATE] 5/12/2021

[MANUFAC] Vode Lighting

[LUMCAT] 707-Z2-48-CC-Z-SO-35-HA-BL

[LUMINAIRE] ZipTwo LED, 48", ceiling cable suspended, 3500K, 80 CRI, zipper board, square 3570,

[MORE] single side diffuse lens, 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	2570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	26.19
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Vertical Rectangle
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	3.99 ft
Luminous Height	0.22 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	39	92
55	0	41	66
65	0	43	66
75	0	45	51
85	0	47	37

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_CC_SO_35_HA_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	11.164	11.164	11.164	11.164	11.164	11.164	11.164	11.164	11.164	11.164
5	0.805	0.882	0.882	0.882	0.968	0.968	1.045	1.045	1.045	1.121
10	0.642	0.642	0.642	0.805	0.805	0.805	0.805	0.805	0.882	0.968
15	0.805	0.719	0.805	0.719	0.805	0.805	0.805	0.805	0.805	0.805
20	0.805	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882
25	1.121	1.121	1.121	1.121	1.045	1.045	1.045	1.045	1.045	1.045
30	1.284	1.284	1.370	1.370	1.370	1.207	1.207	1.207	1.121	1.045
35	1.610	1.610	1.610	1.524	1.524	1.524	1.447	1.370	1.284	1.284
40	1.926	1.926	1.850	1.850	1.850	1.687	1.687	1.610	1.447	1.447
45	2.089	2.089	2.089	2.089	2.012	2.012	1.850	1.763	1.610	1.610
50	2.415	2.415	2.329	2.329	2.329	2.166	2.166	2.012	1.926	1.763
55	2.568	2.568	2.568	2.568	2.492	2.492	2.329	2.166	2.089	1.926
60	2.894	2.808	2.808	2.808	2.654	2.654	2.492	2.415	2.252	2.089
65	3.057	3.057	2.971	2.971	2.894	2.808	2.654	2.568	2.415	2.252
70	3.210	3.210	3.134	3.134	3.057	2.971	2.808	2.731	2.568	2.415
75	3.373	3.373	3.297	3.297	3.210	3.134	2.971	2.808	2.731	2.492
80	3.536	3.536	3.450	3.450	3.297	3.297	3.134	2.971	2.808	2.568
85	3.699	3.699	3.613	3.536	3.450	3.297	3.210	3.057	2.894	2.731
90	3.699	3.699	3.699	3.613	3.613	3.450	3.297	3.134	2.971	2.731
95	3.852	3.852	3.852	3.776	3.699	3.613	3.450	3.297	3.057	2.894
100	4.015	3.939	3.852	3.852	3.776	3.699	3.536	3.297	3.134	2.894
105	4.015	4.015	4.015	4.015	3.852	3.776	3.613	3.450	3.297	3.057
110	4.178	4.102	4.015	4.015	3.939	3.852	3.699	3.536	3.297	3.134
115	4.178	4.178	4.102	4.015	4.015	3.852	3.699	3.613	3.450	3.134
120	4.178	4.178	4.102	4.015	4.015	3.852	3.776	3.613	3.450	3.210
125	4.178	4.178	4.102	4.015	4.015	3.852	3.699	3.536	3.373	3.210
130	4.015	4.102	4.015	4.015	3.852	3.852	3.699	3.613	3.373	3.210
135	4.015	3.939	3.939	3.852	3.852	3.699	3.536	3.450	3.373	3.297
140	3.852	3.852	3.776	3.776	3.699	3.450	3.536	3.450	3.373	3.297
145	3.699	3.699	3.699	3.613	3.297	3.373	3.536	3.536	3.536	3.450
150	3.536	3.536	3.536	3.210	3.210	3.373	3.450	3.699	3.699	3.613
155	3.373	3.210	3.134	2.971	3.134	3.297	3.699	3.699	3.699	3.613
160	3.057	3.057	2.654	2.808	3.134	3.613	3.699	3.699	3.613	3.776
165	3.057	2.654	2.568	2.894	3.699	3.939	4.102	4.341	4.341	4.494
170	3.852	3.373	3.450	4.178	4.418	4.581	4.657	4.657	4.657	4.657
175	2.894	3.373	4.015	4.341	4.494	4.657	4.657	4.744	4.820	4.744
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	11.164	11.164	11.164	11.164	11.164	11.164	11.164	11.164	11.164	11.164
5	1.121	1.207	1.284	1.447	1.850	2.654	4.178	6.507	9.564	13.579
10	0.968	0.968	1.045	1.045	1.207	1.207	1.524	3.297	8.998	18.313
15	0.882	0.882	0.968	1.045	1.045	1.207	1.207	1.926	8.596	23.220
20	0.882	0.882	0.882	0.968	1.045	1.045	1.207	1.447	7.954	28.040
25	0.882	0.882	0.882	0.882	0.968	1.045	1.207	1.370	8.031	32.458
30	1.045	1.045	0.968	0.882	0.882	1.045	1.121	1.370	7.628	36.789
35	1.121	1.121	1.045	0.968	0.968	1.045	1.121	1.370	6.267	40.565
40	1.284	1.207	1.121	1.045	0.968	0.882	1.045	1.284	5.788	45.146
45	1.447	1.284	1.284	1.121	1.045	0.968	1.045	1.284	5.299	48.356
50	1.610	1.447	1.284	1.121	1.121	0.968	0.968	1.207	4.744	51.173
55	1.763	1.610	1.447	1.284	1.121	0.968	0.968	1.121	4.418	53.339
60	1.926	1.687	1.524	1.370	1.207	1.121	0.968	1.045	3.939	60.565

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_CC_SO_35_HA_BL.IES

CANDELA TABULATION - (Cont.)

65	2.089	1.850	1.610	1.447	1.284	1.121	0.968	0.968	4.897	66.429
70	2.089	1.926	1.687	1.524	1.284	1.121	0.968	0.882	4.494	65.874
75	2.252	2.012	1.763	1.524	1.370	1.207	0.968	0.882	4.015	66.429
80	2.415	2.089	1.850	1.610	1.370	1.207	1.045	0.882	3.613	66.429
85	2.415	2.166	1.926	1.687	1.447	1.207	1.121	0.968	2.971	65.624
90	2.492	2.252	2.012	1.687	1.524	1.284	1.121	0.968	2.415	66.592
95	2.568	2.329	2.012	1.763	1.524	1.370	1.121	0.968	2.252	65.308
100	2.654	2.415	2.166	1.850	1.610	1.370	1.207	0.968	2.089	63.622
105	2.731	2.492	2.252	2.012	1.687	1.447	1.284	1.121	2.731	61.370
110	2.894	2.568	2.329	2.012	1.763	1.610	1.370	1.207	2.568	45.069
115	2.971	2.654	2.415	2.166	1.926	1.687	1.524	1.524	2.568	40.162
120	2.971	2.731	2.492	2.252	2.012	1.763	1.610	1.850	2.568	34.460
125	2.971	2.808	2.568	2.329	2.089	1.926	1.763	2.012	2.654	28.596
130	2.971	2.808	2.654	2.492	2.166	2.089	2.089	2.252	2.731	22.894
135	3.134	2.971	2.808	2.492	2.329	2.329	2.415	2.415	2.808	19.041
140	3.210	3.057	2.808	2.654	2.568	2.654	2.568	2.654	2.894	16.310
145	3.373	3.210	3.057	2.808	2.971	3.057	2.808	2.808	3.057	13.177
150	3.450	3.373	3.210	3.373	3.450	3.373	3.134	3.134	3.536	11.643
155	3.450	3.450	3.699	3.852	3.699	3.536	3.450	3.536	3.776	10.522
160	4.015	4.102	4.178	4.015	3.852	3.776	3.776	3.852	3.939	8.759
165	4.418	4.418	4.255	4.102	4.015	4.015	4.015	4.102	4.102	7.072
170	4.581	4.418	4.341	4.341	4.418	4.418	4.418	4.494	4.418	5.941
175	4.744	4.657	4.744	4.744	4.820	4.820	4.820	4.820	4.820	5.299
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

	100	105	110	115	120	125	130	135	140	145
0	11.164	11.164	11.164	11.164	11.164	11.164	11.164	11.164	11.164	11.164
5	17.671	22.089	26.430	30.608	34.786	38.562	42.251	45.711	48.921	51.729
10	27.954	37.997	47.953	57.517	67.321	76.233	84.742	93.022	100.650	107.636
15	38.399	54.144	69.965	85.068	100.890	115.351	129.246	142.902	155.599	166.840
20	48.356	69.965	91.652	112.706	134.948	155.273	175.033	194.314	212.388	228.612
25	57.996	85.068	112.706	139.768	168.210	194.717	220.505	246.609	269.666	291.189
30	70.608	99.932	133.424	166.361	201.550	234.237	266.129	298.740	322.363	353.124
35	78.964	114.871	153.031	191.660	233.356	272.071	310.068	346.703	381.317	414.493
40	84.829	127.962	171.104	215.445	263.159	307.902	350.393	394.178	434.340	472.892
45	91.978	139.691	187.731	238.818	289.023	329.511	387.019	437.790	483.261	526.634
50	98.408	148.613	204.357	258.339	313.527	366.866	421.163	477.070	526.557	574.750
55	103.621	157.123	215.119	274.965	328.381	393.612	453.621	510.007	563.825	615.478
60	107.885	164.272	225.478	286.771	346.454	414.091	475.710	537.079	593.868	650.264
65	109.332	169.657	233.279	297.293	365.093	429.836	493.697	557.721	618.448	673.234
70	111.738	173.586	239.220	305.008	374.657	441.326	506.634	574.271	634.117	690.263
75	112.945	177.928	242.833	309.751	380.522	447.996	514.185	580.538	641.342	699.339
80	115.111	178.895	244.280	311.840	380.915	450.727	516.993	583.183	643.757	701.514
85	114.546	178.493	243.878	313.441	380.119	447.430	515.307	580.941	640.700	697.652
90	113.587	176.883	243.801	310.547	376.420	442.773	507.592	573.945	632.430	688.414
95	111.661	172.063	237.850	305.171	369.837	434.896	500.127	562.704	619.972	674.116
100	109.007	167.971	232.148	296.009	362.764	425.744	487.276	547.841	603.106	655.726
105	105.633	163.064	224.923	286.771	340.839	411.925	471.129	529.528	584.314	633.235
110	99.529	156.960	216.490	275.770	333.048	395.615	452.251	509.442	559.973	606.719
115	93.501	150.051	206.686	262.833	322.602	376.583	430.238	483.012	532.259	576.437
120	86.276	142.020	195.043	248.133	304.529	355.050	405.418	455.058	499.888	542.455
125	76.798	126.601	175.925	226.523	278.904	327.662	378.107	424.220	466.069	505.427
130	73.339	109.246	156.644	201.789	247.491	292.876	338.989	386.463	428.791	465.667
135	53.339	91.412	135.350	176.001	216.403	256.566	297.782	337.782	377.867	418.835

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_CC_SO_35_HA_BL.IES

CANDELA TABULATION - (Cont.)

140	42.577	83.947	112.380	149.648	188.536	222.431	256.968	292.234	325.007	360.110
145	34.058	63.861	93.980	123.381	159.135	193.912	220.581	247.328	275.368	300.830
150	28.040	51.729	78.561	103.142	129.332	159.452	188.689	210.941	229.417	249.743
155	23.536	42.089	62.979	84.503	106.678	125.068	147.962	173.510	190.060	203.629
160	19.195	33.579	48.998	64.906	81.618	98.082	113.587	128.690	144.837	156.481
165	14.624	24.657	36.070	46.995	59.520	70.445	81.053	91.336	101.292	112.782
170	10.206	16.550	23.536	30.924	38.160	44.503	51.173	57.996	63.296	67.963
175	6.507	8.836	12.046	15.342	18.955	22.491	25.462	28.279	30.608	32.697
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	150	155	160	165	170	175	180
0	11.164	11.164	11.164	11.164	11.164	11.164	11.164
5	54.221	56.386	58.159	59.606	60.651	61.207	61.370
10	113.750	118.887	123.228	126.754	129.246	130.693	131.095
15	177.209	185.881	193.270	199.211	203.313	205.805	206.763
20	243.638	256.326	267.097	275.607	281.635	285.410	286.771
25	311.035	326.934	340.839	352.319	360.512	365.572	367.422
30	377.465	399.314	417.550	431.685	441.968	448.638	450.641
35	444.699	470.247	492.173	509.126	521.737	529.767	532.259
40	507.679	537.319	563.423	584.228	598.851	607.850	610.983
45	566.240	599.896	629.536	652.995	669.296	679.416	683.115
50	618.535	655.640	688.174	714.125	732.352	743.602	747.541
55	662.310	702.635	736.856	765.778	785.614	797.986	801.675
60	698.054	740.469	776.453	806.179	826.907	840.314	844.416
65	723.277	768.748	805.854	836.059	857.832	871.727	876.068
70	741.197	786.093	825.940	855.906	877.669	891.727	896.145
75	751.959	796.702	835.494	865.383	887.232	901.204	905.306
80	753.885	798.302	836.462	866.102	888.277	901.530	905.785
85	749.228	793.003	830.434	860.237	881.205	894.218	898.713
90	738.859	781.513	818.465	847.386	867.712	880.237	884.415
95	723.114	764.647	799.596	828.671	848.594	860.879	864.818
100	702.951	742.960	776.616	804.253	823.851	835.820	839.595
105	678.457	716.856	749.304	775.811	794.373	806.342	810.032
110	648.894	685.529	718.054	742.395	760.469	771.796	775.169
115	617.404	651.788	681.754	704.887	721.753	732.352	735.811
120	580.854	613.312	641.266	662.549	678.860	688.414	691.471
125	541.095	571.061	597.078	617.490	632.028	640.940	643.911
130	497.961	525.426	549.125	567.927	581.017	589.134	592.019
135	452.088	476.831	498.038	514.990	526.960	534.185	536.437
140	396.822	425.658	444.297	459.323	470.324	476.754	479.083
145	333.287	363.646	388.715	402.045	411.120	417.148	418.998
150	272.799	297.533	322.918	342.765	350.719	355.616	357.465
155	215.847	233.432	254.323	278.415	289.828	294.160	295.453
160	166.198	173.989	188.133	204.357	225.804	230.059	231.190
165	119.692	124.109	126.438	135.111	148.124	162.911	163.706
170	72.783	75.754	76.396	76.396	82.500	97.440	104.263
175	34.144	34.863	35.103	33.176	30.924	31.413	42.731
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_CC_SO_35_HA_BL.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	22.03	N.A.	0.90
0-30	75.12	N.A.	2.90
0-40	176.59	N.A.	6.90
0-60	547.16	N.A.	21.30
0-80	1089.11	N.A.	42.40
0-90	1382.03	N.A.	53.80
10-90	1379.3	N.A.	53.70
20-40	154.55	N.A.	6.00
20-50	312.29	N.A.	12.20
40-70	627.88	N.A.	24.40
60-80	541.94	N.A.	21.10
70-80	284.64	N.A.	11.10
80-90	292.92	N.A.	11.40
90-110	541.29	N.A.	21.10
90-120	761.80	N.A.	29.60
90-130	935.92	N.A.	36.40
90-150	1134.75	N.A.	44.20
90-180	1188.01	N.A.	46.20
110-180	646.71	N.A.	25.20
0-180	2570.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.73
10-20	19.30
20-30	53.09
30-40	101.47
40-50	157.74
50-60	212.84
60-70	257.30
70-80	284.64
80-90	292.92
90-100	283.29
100-110	258.01
110-120	220.51
120-130	174.12
130-140	123.11
140-150	75.72
150-160	38.31
160-170	13.25
170-180	1.70

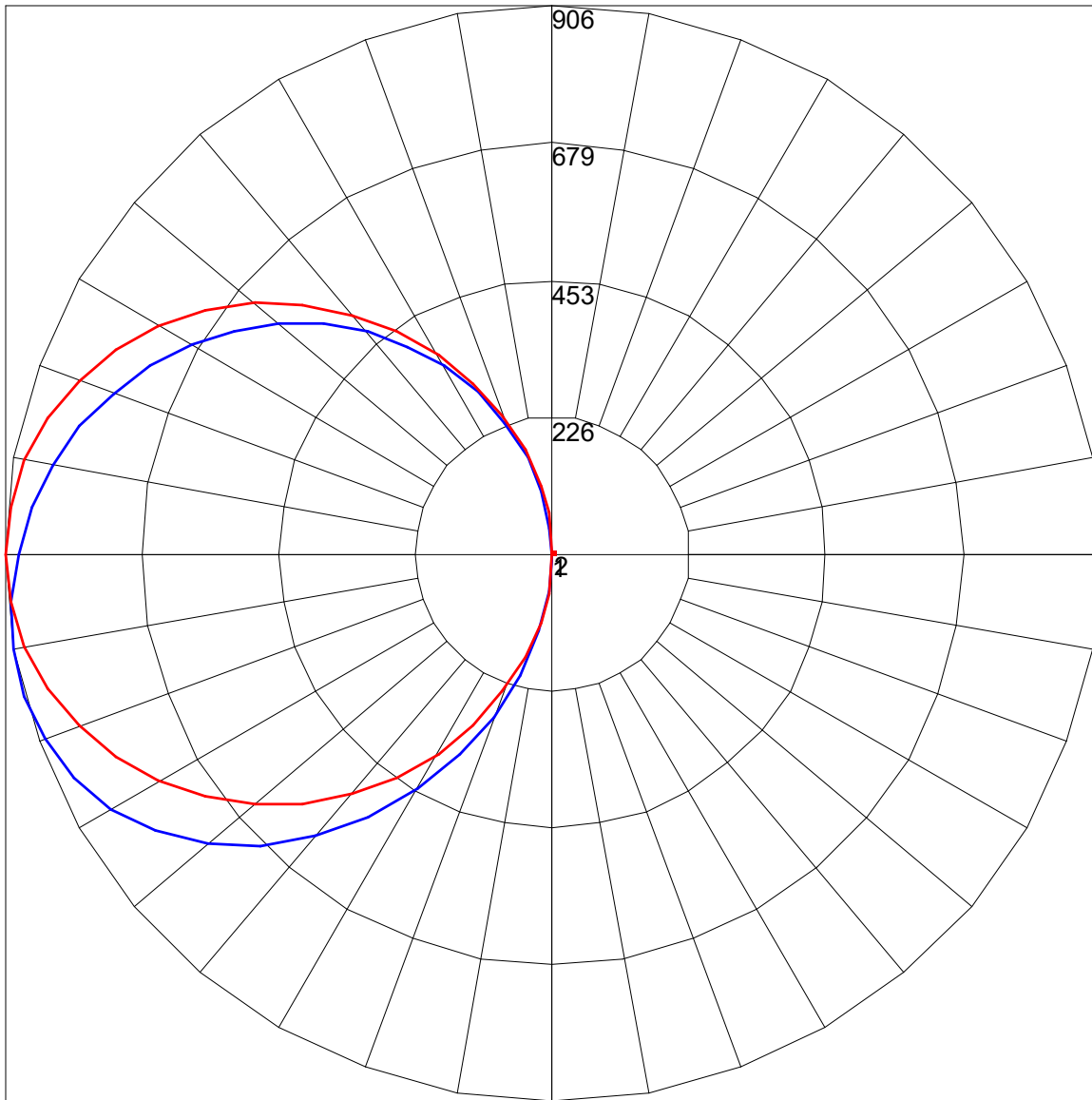
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z2_CC_SO_35_HA_BL.IES

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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	93	86	80	74	85	79	73	68	66	62	58	54	51	48	43	41	39	33
2	82	72	63	56	75	66	58	51	54	48	43	44	39	35	35	31	28	23
3	73	61	51	44	67	56	47	40	46	39	34	37	32	27	29	25	21	17
4	66	53	43	35	60	48	39	32	40	33	27	32	26	22	25	20	17	13
5	60	46	36	29	55	42	33	27	35	28	22	28	22	18	21	17	13	10
6	55	41	31	24	50	37	29	22	31	24	18	25	19	15	19	15	11	8
7	51	36	27	21	46	33	25	19	27	21	16	22	17	12	17	13	9	6
8	47	33	24	18	42	30	22	16	25	18	13	20	15	11	15	11	8	5
9	43	29	21	15	39	27	19	14	22	16	12	18	13	9	14	10	7	4
10	40	27	19	13	37	25	17	12	21	14	10	17	12	8	13	9	6	4

POLAR GRAPH



Maximum Candela = 905.785 Located At Horizontal Angle = 180, Vertical Angle = 80
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Horizontal Cone Through Vertical Angle (80) (Through Max. Cd.)