

IES Report

ZipOne® | 707 | 100° Asymmetric | 80 CRI | HO

707-Z1-4-48-X-XX-X-0-Z-HO-35-A2-X-AL-X

	2700K	3000K	3500K	4000K
Efficacy - Lumens per Watt	113	117	119	122
Total Lumens, 4' rail length (1219mm)	4444	4584	4678	4771
Lumens per foot (305mm)	1111	1146	1169	1193
Input Power (W), 4' rail length (1219mm)	39.4	39.4	39.4	39.4
Watts per foot (305mm)	9.9	9.9	9.9	9.9
CRI	85	85	85	85

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_Z1_HO_35_A2.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L101707606 (SOURCE REPORT FOR REFERENCE)
[TESTLAB] REPORT BASED ON DATA PRODUCED BY NVLAP ACCREDITED LAB
[ISSUEDATE] 11/1/2017
[MANUFAC] Vode Lighting
[LUMCAT] 707-Z1-48-Z-HO-35-A2
[LUMINAIRE] ZipOne LED, 48", 3500K, 80 CRI, zipper board,
[MORE] 100° asymmetric lens, high output
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4678
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	39.36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.06 ft
Luminous Width (90-270)	3.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	99843	97294	84772
55	94398	90437	74180
65	84546	79355	59887
75	72660	65999	44201
85	62933	52145	24274

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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	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58
5	2168.04	2166.30	2166.30	2166.30	2164.56	2162.82	2161.08	2157.60	2155.86	2152.38
10	2183.70	2181.96	2181.96	2180.22	2178.48	2176.74	2173.26	2169.78	2166.30	2161.08
15	2164.56	2164.56	2162.82	2162.82	2159.34	2157.60	2155.86	2150.64	2147.16	2141.94
20	2119.32	2119.32	2119.32	2117.58	2115.84	2114.10	2110.62	2107.14	2101.92	2096.70
25	2049.72	2049.72	2049.72	2047.98	2047.98	2044.50	2041.02	2037.54	2034.06	2028.84
30	1959.24	1959.24	1959.24	1957.50	1955.76	1954.02	1950.54	1947.06	1943.58	1938.36
35	1849.62	1847.88	1847.88	1846.14	1842.66	1840.92	1837.44	1832.22	1828.74	1823.52
40	1719.12	1719.12	1717.38	1715.64	1712.16	1708.68	1703.46	1698.24	1693.02	1687.80
45	1567.74	1566.00	1564.26	1562.52	1557.30	1552.08	1546.86	1541.64	1534.68	1527.72
50	1395.48	1393.74	1392.00	1388.52	1383.30	1378.08	1371.12	1364.16	1357.20	1348.50
55	1202.34	1200.60	1198.86	1195.38	1190.16	1184.94	1177.98	1169.28	1160.58	1151.88
60	998.76	998.76	997.02	993.54	988.32	981.36	974.40	965.70	957.00	946.56
65	793.44	793.44	791.70	788.22	783.00	776.04	770.82	762.12	753.42	744.72
70	596.82	596.82	595.08	591.60	588.12	582.90	575.94	570.72	563.76	555.06
75	417.60	417.60	415.86	412.38	408.90	405.42	400.20	393.24	386.28	379.32
80	255.78	254.04	254.04	250.56	248.82	243.60	240.12	236.64	231.42	224.46
85	121.80	120.06	120.06	118.32	116.58	114.84	111.36	107.88	104.40	100.92
90	33.06	31.32	31.32	31.32	29.58	29.58	27.84	26.10	24.36	22.62
95	27.84	27.84	27.84	26.10	26.10	24.36	24.36	22.62	20.88	20.88
100	26.10	26.10	26.10	26.10	24.36	24.36	22.62	22.62	20.88	19.14
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58
5	2148.90	2145.42	2140.20	2136.72	2131.50	2126.28	2119.32	2114.10	2108.88	2101.92
10	2155.86	2148.90	2141.94	2134.98	2126.28	2115.84	2105.40	2093.22	2081.04	2068.86
15	2134.98	2126.28	2119.32	2108.88	2096.70	2084.52	2070.60	2053.20	2034.06	2013.18
20	2089.74	2082.78	2074.08	2063.64	2049.72	2034.06	2014.92	1994.04	1969.68	1941.84
25	2021.88	2014.92	2004.48	1994.04	1978.38	1960.98	1940.10	1914.00	1882.68	1846.14
30	1931.40	1924.44	1914.00	1901.82	1887.90	1868.76	1844.40	1813.08	1776.54	1731.30
35	1816.56	1809.60	1799.16	1786.98	1773.06	1752.18	1726.08	1693.02	1649.52	1593.84
40	1680.84	1672.14	1663.44	1651.26	1635.60	1612.98	1585.14	1548.60	1501.62	1438.98
45	1519.02	1510.32	1499.88	1487.70	1472.04	1451.16	1421.58	1383.30	1331.10	1259.76
50	1338.06	1329.36	1317.18	1305.00	1289.34	1266.72	1237.14	1197.12	1143.18	1070.10
55	1141.44	1131.00	1118.82	1104.90	1087.50	1066.62	1037.04	997.02	944.82	873.48
60	936.12	923.94	911.76	897.84	882.18	861.30	833.46	796.92	748.20	680.34

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CANDELA TABULATION - (Cont.)

65	734.28	722.10	709.92	696.00	678.60	659.46	635.10	603.78	562.02	508.08
70	544.62	534.18	522.00	509.82	494.16	476.76	455.88	429.78	396.72	356.70
75	370.62	361.92	353.22	341.04	328.86	314.94	299.28	278.40	254.04	226.20
80	219.24	212.28	203.58	196.62	186.18	175.74	165.30	151.38	137.46	121.80
85	95.70	92.22	87.00	81.78	74.82	67.86	60.90	53.94	46.98	41.76
90	20.88	19.14	17.40	13.92	12.18	8.70	5.22	3.48	0.00	0.00
95	19.14	17.40	15.66	13.92	10.44	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58
5	2094.96	2088.00	2081.04	2075.82	2068.86	2061.90	2056.68	2049.72	2044.50	2039.28
10	2054.94	2039.28	2023.62	2007.96	1992.30	1976.64	1959.24	1943.58	1929.66	1915.74
15	1990.56	1966.20	1940.10	1912.26	1882.68	1853.10	1825.26	1795.68	1767.84	1741.74
20	1908.78	1872.24	1833.96	1792.20	1745.22	1699.98	1654.74	1606.02	1562.52	1517.28
25	1804.38	1755.66	1699.98	1642.56	1576.44	1510.32	1444.20	1378.08	1311.96	1252.80
30	1679.10	1614.72	1545.12	1468.56	1383.30	1294.56	1209.30	1124.04	1047.48	976.14
35	1529.46	1451.16	1365.90	1266.72	1167.54	1066.62	965.70	871.74	791.70	720.36
40	1362.42	1271.94	1171.02	1061.40	946.56	838.68	736.02	647.28	574.20	511.56
45	1177.98	1075.32	965.70	852.60	736.02	633.36	542.88	468.06	408.90	360.18
50	983.10	878.70	769.08	657.72	553.32	466.32	391.50	334.08	290.58	255.78
55	788.22	689.04	577.68	495.90	408.90	339.30	285.36	241.86	210.54	187.92
60	589.86	523.74	435.00	360.18	295.80	245.34	205.32	175.74	153.12	137.46
65	445.44	379.32	314.94	259.26	212.28	175.74	147.90	127.02	113.10	100.92
70	309.72	262.74	217.50	179.22	146.16	121.80	104.40	88.74	78.30	71.34
75	196.62	167.04	142.68	114.84	93.96	78.30	67.86	57.42	52.20	46.98
80	106.14	88.74	73.08	60.90	50.46	43.50	36.54	31.32	27.84	26.10
85	36.54	31.32	26.10	20.88	17.40	15.66	13.92	12.18	10.44	10.44
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CANDELA TABULATION - (Cont.)

140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58	2117.58
5	2035.80	2030.58	2028.84	2025.36	2023.62	2021.88	2021.88
10	1903.56	1893.12	1882.68	1875.72	1870.50	1867.02	1865.28
15	1717.38	1696.50	1677.36	1661.70	1651.26	1644.30	1642.56
20	1479.00	1444.20	1414.62	1390.26	1372.86	1362.42	1358.94
25	1198.86	1151.88	1113.60	1082.28	1059.66	1045.74	1042.26
30	913.50	861.30	819.54	788.22	763.86	749.94	746.46
35	659.46	612.48	574.20	546.36	527.22	516.78	513.30
40	462.84	424.56	394.98	374.10	360.18	351.48	348.00
45	323.64	295.80	276.66	261.00	252.30	247.08	245.34
50	229.68	212.28	198.36	187.92	182.70	179.22	177.48
55	168.78	156.60	147.90	140.94	137.46	133.98	133.98
60	125.28	116.58	109.62	106.14	102.66	100.92	100.92
65	92.22	87.00	81.78	78.30	76.56	74.82	74.82
70	64.38	60.90	57.42	55.68	53.94	53.94	52.20
75	43.50	40.02	38.28	36.54	34.80	34.80	34.80
80	24.36	22.62	20.88	20.88	19.14	19.14	19.14
85	8.70	8.70	8.70	8.70	6.96	6.96	6.96
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	752.57	N.A.	16.10
0-30	1538.35	N.A.	32.90
0-40	2403.89	N.A.	51.40
0-60	3890.95	N.A.	83.20
0-80	4597.17	N.A.	98.30
0-90	4666.63	N.A.	99.80
10-90	4467.59	N.A.	95.50
20-40	1651.32	N.A.	35.30
20-50	2468.48	N.A.	52.80
40-70	1948.59	N.A.	41.70
60-80	706.21	N.A.	15.10
70-80	244.69	N.A.	5.20
80-90	69.46	N.A.	1.50
90-110	10.92	N.A.	0.20
90-120	10.92	N.A.	0.20
90-130	10.92	N.A.	0.20
90-150	10.92	N.A.	0.20
90-180	10.92	N.A.	0.20
110-180	0.00	N.A.	0.00
0-180	4677.55	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	199.04
10-20	553.52
20-30	785.79
30-40	865.53
40-50	817.16
50-60	669.91
60-70	461.53
70-80	244.69
80-90	69.46
90-100	9.25
100-110	1.67
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

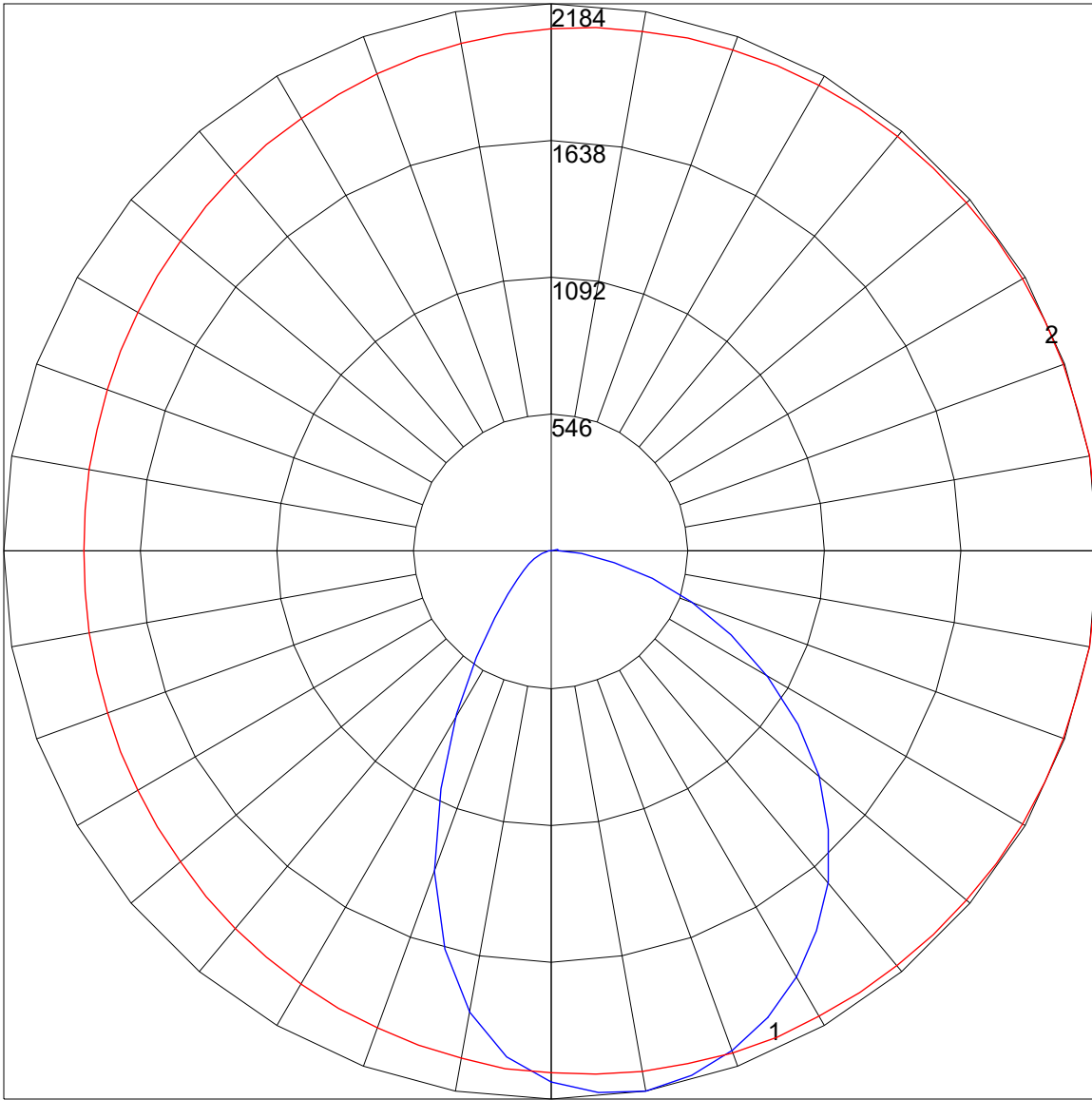
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VODE_707_Z1_HO_35_A2.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	58	67	61	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

POLAR GRAPH



Maximum Candela = 2183.7 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)