

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PRDDH22LEDGV-55L35KEX-PR22-XX-CNFR-XX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] CRT1509031201-001-22\_M-55L-35K  
[TESTLAB] Intertek  
[ISSUE DATE] 10/27/2015  
[UPDATE] 5/4/2018  
[MANUFAC] Spectrum Lighting  
[LUMCAT] PRDDH22LEDGV-55L-35K-EX-PR22-BC22-CNFR-xx  
[LUMINAIRE] LED High Bay, clear prismatic refractor w/ band clamp  
[OTHER] to support, inside frosted conical lens w/ radial prism pattern  
[OTHER] 9.4% Uplight  
[OTHER] 90.6% Downlight  
[OTHER] Nom. 76 Degree Beam Angle (down)  
[LAMP] N/A  
[LAMPCAT] N/A, Gen3  
[OTHER] Total Luminaire Watts is approximate  
[OTHER] CCT Output Multipliers: 40K X 1.03, 30K X 0.985, 27K X 0.971  
[OTHER] This report updated by Spectrum Lighting, scaled from Gen2 220L, ITL data

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4327
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.87 ft (Diameter)
Luminous Width (90-270)	1.87 ft (Diameter)
Luminous Height	1.21 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2250	2291	2258
55	854	780	843
65	376	399	383
75	278	274	276
85	228	213	231

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	1969.088	1969.088	1969.088	1969.088	1969.088	1969.088	1969.088	1969.088	1969.088	1969.088
<b>2.5</b>	1956.589	1962.413	1963.397	1964.700	1958.105	1964.700	1963.397	1962.413	1956.589	1962.413
<b>5.0</b>	1938.745	1940.793	1940.102	1934.889	1931.858	1934.889	1940.102	1940.793	1938.745	1940.793
<b>7.5</b>	1984.007	1984.937	1982.172	1963.929	1973.449	1963.929	1982.172	1984.937	1984.007	1984.937
<b>10.0</b>	2053.548	2092.267	2119.047	2053.681	2034.188	2053.681	2119.047	2092.267	2053.548	2092.267
<b>12.5</b>	2138.459	2167.366	2177.365	2133.460	2115.882	2133.460	2177.365	2167.366	2138.459	2167.366
<b>15.0</b>	2247.837	2201.219	2195.396	2208.559	2243.609	2208.559	2195.396	2201.219	2247.837	2201.219
<b>17.5</b>	2323.122	2215.580	2186.433	2271.452	2333.361	2271.452	2186.433	2215.580	2323.122	2215.580
<b>20.0</b>	2309.985	2237.227	2177.817	2291.078	2338.919	2291.078	2177.817	2237.227	2309.985	2237.227
<b>22.5</b>	2225.020	2246.827	2237.652	2213.878	2245.710	2213.878	2237.652	2246.827	2225.020	2246.827
<b>25.0</b>	2144.363	2231.456	2280.813	2172.552	2141.784	2172.552	2280.813	2231.456	2144.363	2231.456
<b>27.5</b>	2142.980	2219.436	2217.122	2152.793	2125.429	2152.793	2217.122	2219.436	2142.980	2219.436
<b>30.0</b>	2051.846	2079.981	2054.053	2056.207	2022.354	2056.207	2054.053	2079.981	2051.846	2079.981
<b>32.5</b>	1856.652	1846.786	1801.924	1837.984	1818.970	1837.984	1801.924	1846.786	1856.652	1846.786
<b>35.0</b>	1646.247	1574.366	1545.327	1585.908	1629.972	1585.908	1545.327	1574.366	1646.247	1574.366
<b>37.5</b>	1392.815	1368.642	1352.713	1365.637	1375.636	1365.637	1352.713	1368.642	1392.815	1368.642
<b>40.0</b>	1094.307	1186.479	1208.205	1140.021	1112.098	1140.021	1208.205	1186.479	1094.307	1186.479
<b>42.5</b>	919.670	984.823	1008.598	942.487	933.711	942.487	1008.598	984.823	919.670	984.823
<b>45.0</b>	741.124	768.860	754.500	754.048	743.757	754.048	754.500	768.860	741.124	768.860
<b>47.5</b>	550.957	597.122	592.256	570.183	561.673	570.183	592.256	597.122	550.957	597.122
<b>50.0</b>	429.027	453.439	457.907	443.361	431.394	443.361	457.907	453.439	429.027	453.439
<b>52.5</b>	341.668	335.393	334.595	342.971	337.999	342.971	334.595	335.393	341.668	335.393
<b>55.0</b>	272.287	254.948	248.725	266.729	268.777	266.729	248.725	254.948	272.287	254.948
<b>57.5</b>	219.260	205.272	198.757	211.708	216.734	211.708	198.757	205.272	219.260	205.272
<b>60.0</b>	177.642	171.552	165.968	173.121	176.951	173.121	165.968	171.552	177.642	171.552
<b>62.5</b>	141.848	141.688	143.151	140.465	142.725	140.465	143.151	141.688	141.848	141.688
<b>65.0</b>	112.143	117.861	119.004	115.707	114.297	115.707	119.004	117.861	112.143	117.861
<b>67.5</b>	97.916	102.942	104.245	100.496	98.926	100.496	104.245	102.942	97.916	102.942
<b>70.0</b>	89.060	92.305	93.741	90.629	89.486	90.629	93.741	92.305	89.060	92.305
<b>72.5</b>	81.109	82.226	83.343	81.428	81.003	81.428	83.343	82.226	81.109	82.226
<b>75.0</b>	74.966	72.785	73.929	73.184	74.301	73.184	73.929	72.785	74.966	72.785
<b>77.5</b>	69.834	64.515	65.472	65.632	68.929	65.632	65.472	64.515	69.834	64.515
<b>80.0</b>	64.276	58.505	58.558	60.260	63.877	60.260	58.558	58.505	64.276	58.505
<b>82.5</b>	58.133	54.915	53.053	56.564	58.611	56.564	53.053	54.915	58.133	54.915
<b>85.0</b>	52.787	51.484	49.463	53.000	53.612	53.000	49.463	51.484	52.787	51.484
<b>87.5</b>	51.511	49.623	48.373	49.809	51.883	49.809	48.373	49.623	51.511	49.623
<b>90.0</b>	52.442	49.676	49.277	50.820	51.830	50.820	49.277	49.676	52.442	49.676
<b>92.5</b>	52.043	52.707	51.830	53.426	51.085	53.426	51.830	52.707	52.043	52.707
<b>95.0</b>	49.995	53.878	55.101	52.123	49.091	52.123	55.101	53.878	49.995	53.878
<b>97.5</b>	49.038	52.947	56.324	51.272	49.118	51.272	56.324	52.947	49.038	52.947
<b>100.0</b>	51.139	54.276	55.899	52.841	51.404	52.841	55.899	54.276	51.139	54.276
<b>102.5</b>	53.027	55.287	55.766	54.782	53.426	54.782	55.766	55.287	53.027	55.287
<b>105.0</b>	54.649	56.085	56.750	55.713	54.649	55.713	56.750	56.085	54.649	56.085
<b>107.5</b>	55.633	56.697	57.016	56.484	55.526	56.484	57.016	56.697	55.633	56.697
<b>110.0</b>	56.245	57.069	56.829	56.723	56.484	56.723	56.829	57.069	56.245	57.069
<b>112.5</b>	56.617	57.361	57.175	56.909	56.697	56.909	57.175	57.361	56.617	57.361
<b>115.0</b>	57.787	58.531	58.478	57.680	57.548	57.680	58.478	58.531	57.787	58.531
<b>117.5</b>	59.436	60.260	59.808	59.196	59.143	59.196	59.808	60.260	59.436	60.260
<b>120.0</b>	61.031	62.095	61.271	60.659	60.526	60.659	61.271	62.095	61.031	62.095
<b>122.5</b>	62.042	63.451	62.653	61.776	61.590	61.776	62.653	63.451	62.042	63.451
<b>125.0</b>	62.467	64.169	63.664	62.467	61.989	62.467	63.664	64.169	62.467	64.169
<b>127.5</b>	62.760	64.595	64.861	63.105	62.308	63.105	64.861	64.595	62.760	64.595
<b>130.0</b>	63.185	65.472	66.616	64.090	62.946	64.090	66.616	65.472	63.185	65.472
<b>132.5</b>	63.637	66.509	67.999	65.206	63.717	65.206	67.999	66.509	63.637	66.509

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**CANDELA TABULATION - (Cont.)**

135.0	64.249	67.254	68.956	66.350	64.861	66.350	68.956	67.254	64.249	67.254
137.5	65.286	68.211	69.621	67.679	66.323	67.679	69.621	68.211	65.286	68.211
140.0	66.802	69.142	70.286	69.036	68.052	69.036	70.286	69.142	66.802	69.142
142.5	69.222	70.073	70.791	70.738	70.472	70.738	70.791	70.073	69.222	70.073
145.0	72.812	71.722	71.934	73.397	73.690	73.397	71.934	71.722	72.812	71.722
147.5	76.216	74.541	74.275	76.588	77.333	76.588	74.275	74.541	76.216	74.541
150.0	81.056	79.753	79.859	81.907	82.758	81.907	79.859	79.753	81.056	79.753
152.5	87.970	87.199	87.465	88.848	89.167	88.848	87.465	87.199	87.970	87.199
155.0	92.411	93.688	94.751	94.326	93.501	94.326	94.751	93.688	92.411	93.688
157.5	94.326	97.251	98.900	97.650	96.746	97.650	98.900	97.251	94.326	97.251
160.0	96.613	97.809	99.033	98.448	98.687	98.448	99.033	97.809	96.613	97.809
162.5	98.155	96.693	97.092	96.693	98.448	96.693	97.092	96.693	98.155	96.693
165.0	97.889	95.203	95.097	95.124	97.145	95.124	95.097	95.203	97.889	95.203
167.5	97.092	94.645	94.086	94.592	96.134	94.592	94.086	94.645	97.092	94.645
170.0	95.230	93.847	93.156	93.794	94.698	93.794	93.156	93.847	95.230	93.847
172.5	93.821	93.741	92.783	93.395	93.847	93.395	92.783	93.741	93.821	93.741
175.0	98.368	99.618	99.512	99.432	98.714	99.432	99.512	99.618	98.368	99.618
177.5	109.351	112.250	113.313	112.170	110.495	112.170	113.313	112.250	109.351	112.250
180.0	117.000	117.000	117.000	117.000	117.000	117.000	117.000	117.000	117.000	117.000

**Vert. Angles**      **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1969.088	1969.088	1969.088	1969.088	1969.088	1969.088	1969.088
2.5	1963.397	1964.700	1958.105	1964.700	1963.397	1962.413	1956.589
5.0	1940.102	1934.889	1931.858	1934.889	1940.102	1940.793	1938.745
7.5	1982.172	1963.929	1973.449	1963.929	1982.172	1984.937	1984.007
10.0	2119.047	2053.681	2034.188	2053.681	2119.047	2092.267	2053.548
12.5	2177.365	2133.460	2115.882	2133.460	2177.365	2167.366	2138.459
15.0	2195.396	2208.559	2243.609	2208.559	2195.396	2201.219	2247.837
17.5	2186.433	2271.452	2333.361	2271.452	2186.433	2215.580	2323.122
20.0	2177.817	2291.078	2338.919	2291.078	2177.817	2237.227	2309.985
22.5	2237.652	2213.878	2245.710	2213.878	2237.652	2246.827	2225.020
25.0	2280.813	2172.552	2141.784	2172.552	2280.813	2231.456	2144.363
27.5	2217.122	2152.793	2125.429	2152.793	2217.122	2219.436	2142.980
30.0	2054.053	2056.207	2022.354	2056.207	2054.053	2079.981	2051.846
32.5	1801.924	1837.984	1818.970	1837.984	1801.924	1846.786	1856.652
35.0	1545.327	1585.908	1629.972	1585.908	1545.327	1574.366	1646.247
37.5	1352.713	1365.637	1375.636	1365.637	1352.713	1368.642	1392.815
40.0	1208.205	1140.021	1112.098	1140.021	1208.205	1186.479	1094.307
42.5	1008.598	942.487	933.711	942.487	1008.598	984.823	919.670
45.0	754.500	754.048	743.757	754.048	754.500	768.860	741.124
47.5	592.256	570.183	561.673	570.183	592.256	597.122	550.957
50.0	457.907	443.361	431.394	443.361	457.907	453.439	429.027
52.5	334.595	342.971	337.999	342.971	334.595	335.393	341.668
55.0	248.725	266.729	268.777	266.729	248.725	254.948	272.287
57.5	198.757	211.708	216.734	211.708	198.757	205.272	219.260
60.0	165.968	173.121	176.951	173.121	165.968	171.552	177.642
62.5	143.151	140.465	142.725	140.465	143.151	141.688	141.848
65.0	119.004	115.707	114.297	115.707	119.004	117.861	112.143
67.5	104.245	100.496	98.926	100.496	104.245	102.942	97.916
70.0	93.741	90.629	89.486	90.629	93.741	92.305	89.060
72.5	83.343	81.428	81.003	81.428	83.343	82.226	81.109
75.0	73.929	73.184	74.301	73.184	73.929	72.785	74.966
77.5	65.472	65.632	68.929	65.632	65.472	64.515	69.834
80.0	58.558	60.260	63.877	60.260	58.558	58.505	64.276

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<b>82.5</b>	53.053	56.564	58.611	56.564	53.053	54.915	58.133
<b>85.0</b>	49.463	53.000	53.612	53.000	49.463	51.484	52.787
<b>87.5</b>	48.373	49.809	51.883	49.809	48.373	49.623	51.511
<b>90.0</b>	49.277	50.820	51.830	50.820	49.277	49.676	52.442
<b>92.5</b>	51.830	53.426	51.085	53.426	51.830	52.707	52.043
<b>95.0</b>	55.101	52.123	49.091	52.123	55.101	53.878	49.995
<b>97.5</b>	56.324	51.272	49.118	51.272	56.324	52.947	49.038
<b>100.0</b>	55.899	52.841	51.404	52.841	55.899	54.276	51.139
<b>102.5</b>	55.766	54.782	53.426	54.782	55.766	55.287	53.027
<b>105.0</b>	56.750	55.713	54.649	55.713	56.750	56.085	54.649
<b>107.5</b>	57.016	56.484	55.526	56.484	57.016	56.697	55.633
<b>110.0</b>	56.829	56.723	56.484	56.723	56.829	57.069	56.245
<b>112.5</b>	57.175	56.909	56.697	56.909	57.175	57.361	56.617
<b>115.0</b>	58.478	57.680	57.548	57.680	58.478	58.531	57.787
<b>117.5</b>	59.808	59.196	59.143	59.196	59.808	60.260	59.436
<b>120.0</b>	61.271	60.659	60.526	60.659	61.271	62.095	61.031
<b>122.5</b>	62.653	61.776	61.590	61.776	62.653	63.451	62.042
<b>125.0</b>	63.664	62.467	61.989	62.467	63.664	64.169	62.467
<b>127.5</b>	64.861	63.105	62.308	63.105	64.861	64.595	62.760
<b>130.0</b>	66.616	64.090	62.946	64.090	66.616	65.472	63.185
<b>132.5</b>	67.999	65.206	63.717	65.206	67.999	66.509	63.637
<b>135.0</b>	68.956	66.350	64.861	66.350	68.956	67.254	64.249
<b>137.5</b>	69.621	67.679	66.323	67.679	69.621	68.211	65.286
<b>140.0</b>	70.286	69.036	68.052	69.036	70.286	69.142	66.802
<b>142.5</b>	70.791	70.738	70.472	70.738	70.791	70.073	69.222
<b>145.0</b>	71.934	73.397	73.690	73.397	71.934	71.722	72.812
<b>147.5</b>	74.275	76.588	77.333	76.588	74.275	74.541	76.216
<b>150.0</b>	79.859	81.907	82.758	81.907	79.859	79.753	81.056
<b>152.5</b>	87.465	88.848	89.167	88.848	87.465	87.199	87.970
<b>155.0</b>	94.751	94.326	93.501	94.326	94.751	93.688	92.411
<b>157.5</b>	98.900	97.650	96.746	97.650	98.900	97.251	94.326
<b>160.0</b>	99.033	98.448	98.687	98.448	99.033	97.809	96.613
<b>162.5</b>	97.092	96.693	98.448	96.693	97.092	96.693	98.155
<b>165.0</b>	95.097	95.124	97.145	95.124	95.097	95.203	97.889
<b>167.5</b>	94.086	94.592	96.134	94.592	94.086	94.645	97.092
<b>170.0</b>	93.156	93.794	94.698	93.794	93.156	93.847	95.230
<b>172.5</b>	92.783	93.395	93.847	93.395	92.783	93.741	93.821
<b>175.0</b>	99.512	99.432	98.714	99.432	99.512	99.618	98.368
<b>177.5</b>	113.313	112.170	110.495	112.170	113.313	112.250	109.351
<b>180.0</b>	117.000	117.000	117.000	117.000	117.000	117.000	117.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	814.74	N.A.	18.80
0-30	1828.36	N.A.	42.30
0-40	2821.25	N.A.	65.20
0-60	3662.11	N.A.	84.60
0-80	3862.23	N.A.	89.30
0-90	3920.27	N.A.	90.60
10-90	3730.58	N.A.	86.20
20-40	2006.51	N.A.	46.40
20-50	2599.38	N.A.	60.10
40-70	962.34	N.A.	22.20
60-80	200.13	N.A.	4.60
70-80	78.64	N.A.	1.80
80-90	58.03	N.A.	1.30
90-110	115.88	N.A.	2.70
90-120	173.85	N.A.	4.00
90-130	230.42	N.A.	5.30
90-150	328.08	N.A.	7.60
90-180	407.15	N.A.	9.40
110-180	291.27	N.A.	6.70
0-180	4327.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	189.68
10-20	625.06
20-30	1013.62
30-40	992.89
40-50	592.87
50-60	247.99
60-70	121.48
70-80	78.64
80-90	58.03
90-100	57.13
100-110	58.75
110-120	57.97
120-130	56.57
130-140	51.72
140-150	45.94
150-160	42.44
160-170	27.28
170-180	9.36

# IES INDOOR REPORT

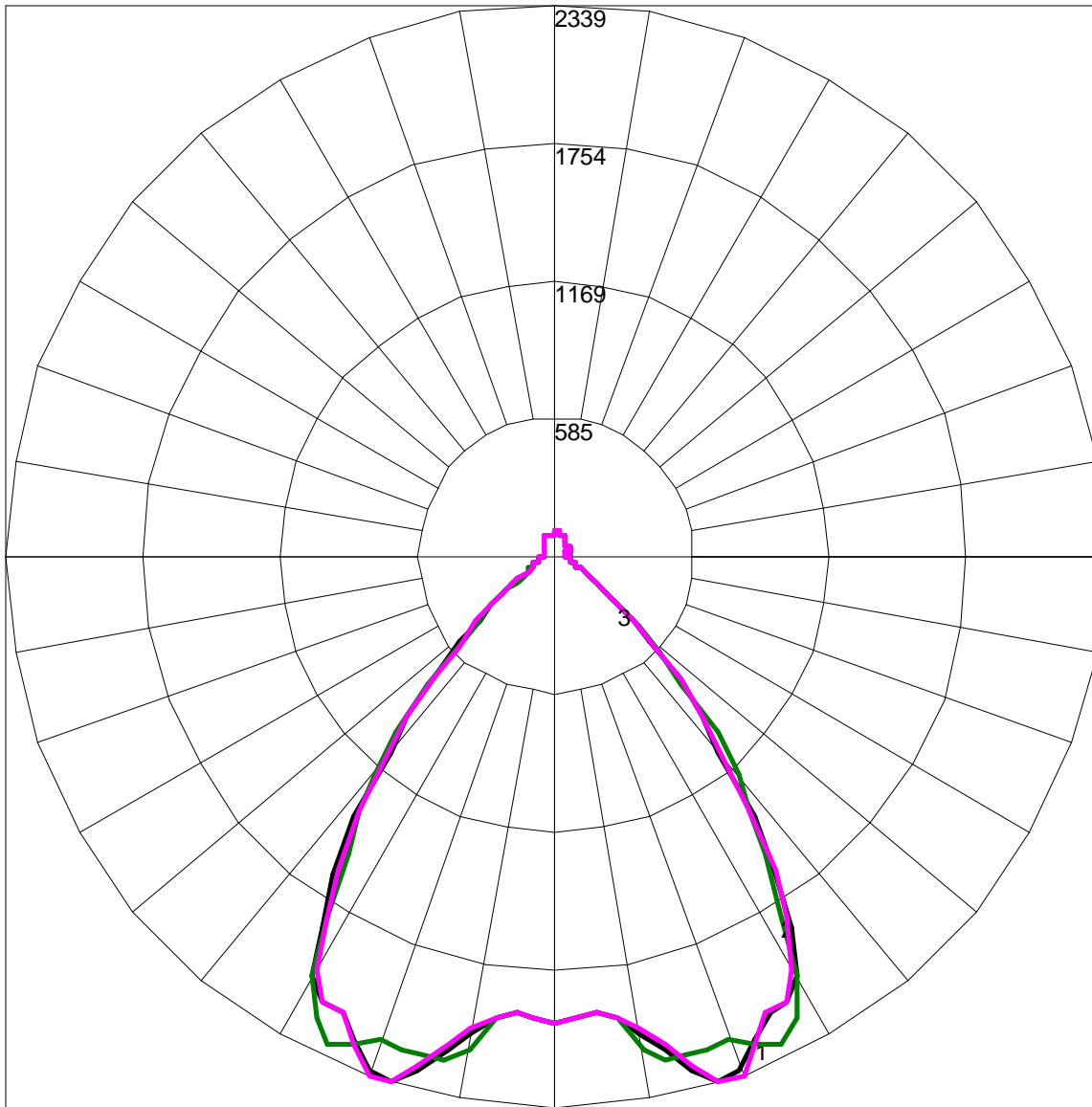
PHOTOMETRIC FILENAME : PRDDH22LEDGV-55L35KEX-PR22-XX-CNFR-XX.IES

## 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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	109	105	102	99	106	102	99	97	96	94	92	91	89	87	86	85	83	81
2	102	95	90	85	98	93	88	84	88	84	80	83	80	77	79	77	74	72
3	95	86	80	75	92	84	78	74	80	75	71	76	72	69	73	69	67	64
4	88	79	72	66	85	77	70	65	73	68	63	70	65	62	67	63	60	58
5	82	72	64	59	80	70	63	58	67	61	57	64	59	56	62	58	54	52
6	77	66	58	53	75	64	58	52	62	56	51	59	54	50	57	53	49	47
7	72	61	53	48	70	59	52	48	57	51	47	55	50	46	53	48	45	43
8	67	56	49	44	66	55	48	43	53	47	42	51	46	42	49	45	41	39
9	63	52	45	40	62	51	44	40	49	43	39	47	42	38	46	41	38	36
10	60	48	41	37	58	47	41	36	46	40	36	44	39	35	43	38	35	33

POLAR GRAPH



Maximum Candela = 2338.919 Located At Horizontal Angle = 90, Vertical Angle = 20

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)