

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-F-DAO-ITL85132-KPL2008-3.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-3.013 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]08/29/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-S-V-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 50.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 51.9 WATTS

[OTHER]see www.finelite.com for source files ITL85132 and KPL2008-3. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

[_ABSOLUTE]LUMENS]5303

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5303
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	50.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.48
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23232	24168	17485
55	19717	21943	15596
65	16280	19112	13788
75	13580	16144	11572
85	13552	16085	9624

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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>
0.0	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990
2.5	1470.400	1462.610	1455.450	1453.410	1429.310	1407.190	1376.190	1361.030	1362.280	1361.030
5.0	1525.610	1512.860	1491.110	1469.050	1421.990	1380.380	1334.680	1311.680	1306.860	1311.680
7.5	1572.250	1555.630	1522.270	1480.860	1410.900	1347.440	1293.580	1255.680	1261.270	1255.680
10.0	1610.940	1593.320	1545.590	1487.820	1394.700	1313.920	1253.640	1223.260	1220.910	1223.260
12.5	1648.580	1624.850	1563.880	1489.020	1374.200	1277.170	1214.630	1180.080	1178.660	1180.080
15.0	1669.910	1646.860	1577.480	1484.780	1349.940	1242.400	1174.170	1131.720	1136.210	1131.720
17.5	1678.070	1654.960	1583.860	1474.060	1319.720	1202.400	1134.750	1099.560	1097.940	1099.560
20.0	1670.750	1650.570	1580.090	1458.070	1290.650	1163.350	1095.330	1063.280	1059.250	1063.280
22.5	1651.720	1633.840	1571.730	1435.170	1254.260	1121.260	1056.430	1026.210	1023.700	1026.210
25.0	1618.680	1606.760	1544.540	1409.500	1215.260	1079.480	1014.910	988.990	988.560	988.990
27.5	1583.120	1568.330	1516.200	1377.080	1170.820	1036.510	976.120	952.340	953.010	952.340
30.0	1530.840	1522.060	1475.630	1338.550	1126.280	991.440	937.010	914.280	917.460	914.280
32.5	1473.120	1469.570	1432.860	1295.990	1075.770	946.220	897.380	877.410	881.280	877.410
35.0	1403.690	1408.350	1381.520	1249.040	1026.840	898.900	855.660	840.190	842.380	840.190
37.5	1331.540	1339.590	1324.430	1193.620	975.700	850.960	813.310	801.710	805.160	801.710
40.0	1253.740	1267.550	1264.090	1138.720	926.240	804.060	771.590	762.910	767.510	762.910
42.5	1166.740	1189.860	1194.980	1078.650	869.150	757.010	729.550	725.170	726.940	725.170
45.0	1082.050	1109.910	1125.650	1016.430	814.360	708.170	685.640	683.810	658.350	683.810
47.5	1001.740	1025.580	1058.410	952.180	758.100	660.910	641.300	643.080	651.230	643.080
50.0	910.560	941.410	979.470	882.220	701.320	611.870	598.950	601.830	608.570	601.830
52.5	826.280	859.060	904.490	815.040	646.530	565.280	553.780	558.800	567.790	558.800
55.0	744.930	777.340	829.000	747.960	589.230	517.710	508.820	517.810	523.460	517.810
57.5	662.110	696.670	748.800	681.040	535.900	470.390	463.540	473.530	481.000	473.530
60.0	588.290	621.860	674.760	612.970	485.290	414.060	411.970	427.520	438.130	427.520
62.5	514.250	549.230	600.310	548.450	424.290	379.630	377.940	389.800	393.540	389.800
65.0	453.190	480.320	532.030	485.030	383.820	334.710	334.730	346.340	349.460	346.340
67.5	392.330	417.590	463.850	424.120	335.560	291.580	290.900	301.560	302.450	301.560
70.0	335.660	356.940	399.020	366.510	285.740	248.920	249.240	257.820	263.880	257.820
72.5	279.820	299.110	333.150	308.680	240.830	208.500	208.770	214.380	217.520	214.380
75.0	231.510	246.830	275.220	256.500	197.270	169.110	168.680	163.680	175.000	163.680
77.5	184.660	198.620	220.320	207.300	158.520	131.840	129.900	131.900	131.360	131.900
80.0	144.720	155.020	170.550	160.410	120.370	96.840	93.080	92.070	92.390	92.070
82.5	108.120	114.660	126.110	119.210	87.390	64.190	60.930	52.070	55.780	52.070
85.0	77.800	80.420	92.340	87.900	55.250	35.950	29.900	24.420	20.370	24.420
87.5	46.700	49.080	51.850	45.830	26.060	9.810	5.250	1.880	1.280	1.880
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	12.282	12.282	12.282	13.510	13.510	13.510	12.282	12.282	12.282	12.282
95.0	29.067	27.839	27.839	28.248	28.657	28.248	27.839	27.839	29.067	27.839
97.5	45.852	44.624	43.805	44.214	44.214	44.214	43.805	44.624	45.852	44.624
100.0	63.046	60.999	60.999	60.999	60.590	60.999	60.999	60.999	63.046	60.999
102.5	81.059	79.422	78.603	78.193	78.193	78.193	78.603	79.422	81.059	79.422
105.0	99.891	98.663	96.616	96.207	95.797	96.207	96.616	98.663	99.891	98.663
107.5	119.132	117.904	115.448	115.039	114.629	115.039	115.448	117.904	119.132	117.904
110.0	139.193	137.964	135.917	135.099	133.871	135.099	135.917	137.964	139.193	137.964
112.5	160.071	158.025	156.796	154.749	153.521	154.749	156.796	158.025	160.071	158.025
115.0	180.950	179.722	178.903	174.810	173.991	174.810	178.903	179.722	180.950	179.722
117.5	203.057	201.010	201.010	196.098	195.279	196.098	201.010	201.010	203.057	201.010
120.0	225.574	222.299	223.118	218.205	216.567	218.205	223.118	222.299	225.574	222.299
122.5	246.862	243.587	245.225	241.131	238.265	241.131	245.225	243.587	246.862	243.587
125.0	270.607	265.694	267.332	263.238	261.191	263.238	267.332	265.694	270.607	265.694
127.5	293.942	288.620	289.439	286.164	285.345	286.164	289.439	288.620	293.942	288.620
130.0	316.868	311.546	312.365	308.271	308.680	308.271	312.365	311.546	316.868	311.546
132.5	339.794	334.062	335.290	331.197	331.197	331.197	335.290	334.062	339.794	334.062

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

135.0	361.901	356.579	358.216	354.532	354.532	354.532	358.216	356.579	361.901	356.579
137.5	384.417	379.095	380.733	377.458	377.048	377.458	380.733	379.095	384.417	379.095
140.0	406.934	401.612	402.840	400.793	399.565	400.793	402.840	401.612	406.934	401.612
142.5	428.222	422.490	424.128	422.081	420.444	422.081	424.128	422.490	428.222	422.490
145.0	449.920	443.779	445.416	443.779	440.913	443.779	445.416	443.779	449.920	443.779
147.5	469.980	463.839	465.886	463.429	460.564	463.429	465.886	463.839	469.980	463.839
150.0	489.221	483.080	485.537	482.671	480.214	482.671	485.537	483.080	489.221	483.080
152.5	507.644	501.503	503.959	501.503	499.046	501.503	503.959	501.503	507.644	501.503
155.0	525.247	519.107	521.972	519.516	517.060	519.516	521.972	519.107	525.247	519.107
157.5	540.395	534.663	537.938	535.482	533.026	535.482	537.938	534.663	540.395	534.663
160.0	555.133	549.811	552.677	550.220	547.764	550.220	552.677	549.811	555.133	549.811
162.5	567.824	563.321	565.368	563.730	562.092	563.730	565.368	563.321	567.824	563.321
165.0	579.287	575.193	576.421	575.602	574.374	575.602	576.421	575.193	579.287	575.193
167.5	587.884	585.428	586.246	585.428	585.018	585.428	586.246	585.428	587.884	585.428
170.0	595.662	594.434	594.844	594.025	593.615	594.025	594.844	594.434	595.662	594.434
172.5	602.213	601.803	601.803	601.394	601.394	601.394	601.803	601.803	602.213	601.803
175.0	606.716	606.716	606.716	606.716	606.307	606.716	606.716	606.716	606.716	606.716
177.5	609.172	609.582	609.582	609.582	609.172	609.582	609.582	609.582	609.172	609.582
180.0	610.810	610.810	610.810	610.810	610.810	610.810	610.810	610.810	610.810	610.810

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	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990	1421.990
2.5	1376.190	1407.190	1429.310	1453.410	1455.450	1462.610	1470.400
5.0	1334.680	1380.380	1421.990	1469.050	1491.110	1512.860	1525.610
7.5	1293.580	1347.440	1410.900	1480.860	1522.270	1555.630	1572.250
10.0	1253.640	1313.920	1394.700	1487.820	1545.590	1593.320	1610.940
12.5	1214.630	1277.170	1374.200	1489.020	1563.880	1624.850	1648.580
15.0	1174.170	1242.400	1349.940	1484.780	1577.480	1646.860	1669.910
17.5	1134.750	1202.400	1319.720	1474.060	1583.860	1654.960	1678.070
20.0	1095.330	1163.350	1290.650	1458.070	1580.090	1650.570	1670.750
22.5	1056.430	1121.260	1254.260	1435.170	1571.730	1633.840	1651.720
25.0	1014.910	1079.480	1215.260	1409.500	1544.540	1606.760	1618.680
27.5	976.120	1036.510	1170.820	1377.080	1516.200	1568.330	1583.120
30.0	937.010	991.440	1126.280	1338.550	1475.630	1522.060	1530.840
32.5	897.380	946.220	1075.770	1295.990	1432.860	1469.570	1473.120
35.0	855.660	898.900	1026.840	1249.040	1381.520	1408.350	1403.690
37.5	813.310	850.960	975.700	1193.620	1324.430	1339.590	1331.540
40.0	771.590	804.060	926.240	1138.720	1264.090	1267.550	1253.740
42.5	729.550	757.010	869.150	1078.650	1194.980	1189.860	1166.740
45.0	685.640	708.170	814.360	1016.430	1125.650	1109.910	1082.050
47.5	641.300	660.910	758.100	952.180	1058.410	1025.580	1001.740
50.0	598.950	611.870	701.320	882.220	979.470	941.410	910.560
52.5	553.780	565.280	646.530	815.040	904.490	859.060	826.280
55.0	508.820	517.710	589.230	747.960	829.000	777.340	744.930
57.5	463.540	470.390	535.900	681.040	748.800	696.670	662.110
60.0	411.970	414.060	485.290	612.970	674.760	621.860	588.290
62.5	377.940	379.630	424.290	548.450	600.310	549.230	514.250
65.0	334.730	334.710	383.820	485.030	532.030	480.320	453.190
67.5	290.900	291.580	335.560	424.120	463.850	417.590	392.330
70.0	249.240	248.920	285.740	366.510	399.020	356.940	335.660
72.5	208.770	208.500	240.830	308.680	333.150	299.110	279.820
75.0	168.680	169.110	197.270	256.500	275.220	246.830	231.510
77.5	129.900	131.840	158.520	207.300	220.320	198.620	184.660
80.0	93.080	96.840	120.370	160.410	170.550	155.020	144.720

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-F-DAO-ITL85132-KPL2008-3.013.IES****CANDELA TABULATION - (Cont.)**

82.5	60.930	64.190	87.390	119.210	126.110	114.660	108.120
85.0	29.900	35.950	55.250	87.900	92.340	80.420	77.800
87.5	5.250	9.810	26.060	45.830	51.850	49.080	46.700
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	12.282	13.510	13.510	13.510	12.282	12.282	12.282
95.0	27.839	28.248	28.657	28.248	27.839	27.839	29.067
97.5	43.805	44.214	44.214	44.214	43.805	44.624	45.852
100.0	60.999	60.999	60.590	60.999	60.999	60.999	63.046
102.5	78.603	78.193	78.193	78.193	78.603	79.422	81.059
105.0	96.616	96.207	95.797	96.207	96.616	98.663	99.891
107.5	115.448	115.039	114.629	115.039	115.448	117.904	119.132
110.0	135.917	135.099	133.871	135.099	135.917	137.964	139.193
112.5	156.796	154.749	153.521	154.749	156.796	158.025	160.071
115.0	178.903	174.810	173.991	174.810	178.903	179.722	180.950
117.5	201.010	196.098	195.279	196.098	201.010	201.010	203.057
120.0	223.118	218.205	216.567	218.205	223.118	222.299	225.574
122.5	245.225	241.131	238.265	241.131	245.225	243.587	246.862
125.0	267.332	263.238	261.191	263.238	267.332	265.694	270.607
127.5	289.439	286.164	285.345	286.164	289.439	288.620	293.942
130.0	312.365	308.271	308.680	308.271	312.365	311.546	316.868
132.5	335.290	331.197	331.197	331.197	335.290	334.062	339.794
135.0	358.216	354.532	354.532	354.532	358.216	356.579	361.901
137.5	380.733	377.458	377.048	377.458	380.733	379.095	384.417
140.0	402.840	400.793	399.565	400.793	402.840	401.612	406.934
142.5	424.128	422.081	420.444	422.081	424.128	422.490	428.222
145.0	445.416	443.779	440.913	443.779	445.416	443.779	449.920
147.5	465.886	463.429	460.564	463.429	465.886	463.839	469.980
150.0	485.537	482.671	480.214	482.671	485.537	483.080	489.221
152.5	503.959	501.503	499.046	501.503	503.959	501.503	507.644
155.0	521.972	519.516	517.060	519.516	521.972	519.107	525.247
157.5	537.938	535.482	533.026	535.482	537.938	534.663	540.395
160.0	552.677	550.220	547.764	550.220	552.677	549.811	555.133
162.5	565.368	563.730	562.092	563.730	565.368	563.321	567.824
165.0	576.421	575.602	574.374	575.602	576.421	575.193	579.287
167.5	586.246	585.428	585.018	585.428	586.246	585.428	587.884
170.0	594.844	594.025	593.615	594.025	594.844	594.434	595.662
172.5	601.803	601.394	601.394	601.394	601.803	601.803	602.213
175.0	606.716	606.716	606.307	606.716	606.716	606.716	606.716
177.5	609.582	609.582	609.172	609.582	609.582	609.582	609.172
180.0	610.810	610.810	610.810	610.810	610.810	610.810	610.810

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-F-DAO-ITL85132-KPL2008-3.013.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	523.14	N.A.	9.90
0-30	1107.93	N.A.	20.90
0-40	1793.79	N.A.	33.80
0-60	3043.17	N.A.	57.40
0-80	3676.09	N.A.	69.30
0-90	3739.99	N.A.	70.60
10-90	3605.19	N.A.	68.00
20-40	1270.65	N.A.	24.00
20-50	1947.83	N.A.	36.70
40-70	1657.72	N.A.	31.30
60-80	632.92	N.A.	11.90
70-80	224.58	N.A.	4.20
80-90	63.90	N.A.	1.20
90-110	134.78	N.A.	2.50
90-120	311.03	N.A.	5.90
90-130	548.75	N.A.	10.40
90-150	1101.93	N.A.	20.80
90-180	1561.15	N.A.	29.40
110-180	1426.38	N.A.	26.90
0-180	5301.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.80
10-20	388.33
20-30	584.80
30-40	685.86
40-50	677.18
50-60	572.20
60-70	408.34
70-80	224.58
80-90	63.90
90-100	31.55
100-110	103.23
110-120	176.25
120-130	237.72
130-140	275.34
140-150	277.84
150-160	239.40
160-170	162.30
170-180	57.52

IES INDOOR REPORT

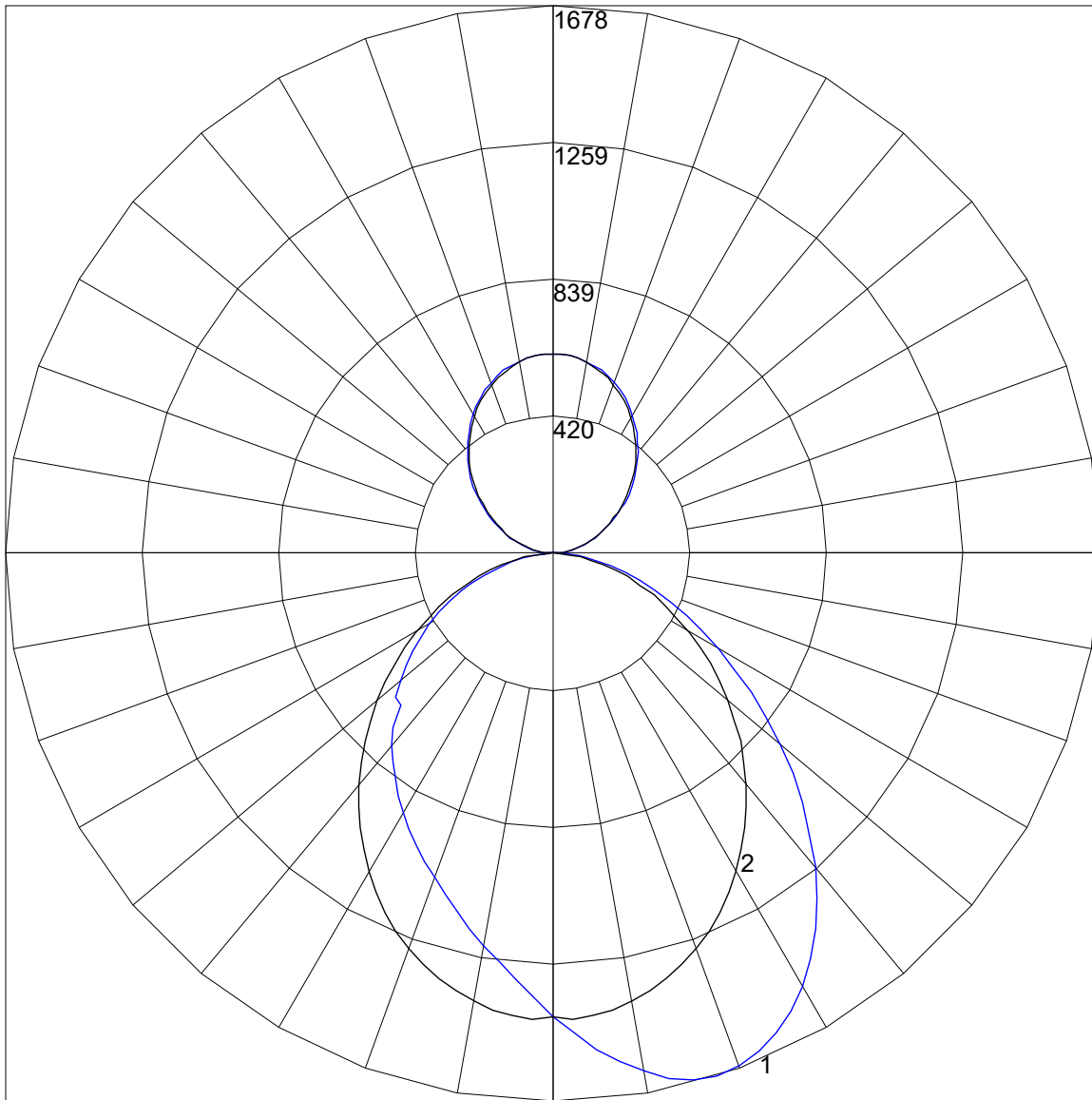
PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-V-835-F-DAO-ITL85132-KPL2008-3.013.IES

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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	71
1	103	98	94	91	97	93	89	86	83	81	78	75	73	71	66	65	64	60
2	93	86	80	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	80	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	31	39	33	29	35	31	27	25
8	57	44	36	31	54	42	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

POLAR GRAPH



Maximum Candela = 1678.07 Located At Horizontal Angle = 0, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)