

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-B-H-835-F-DAO-ITL85132-KPL2008-3.011.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-KPL2008-3.011 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]08/29/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-B-H-835-F-DAO

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 45.9 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 47.4 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]4872

[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4871
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	45.9
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	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	18067	18795	13597
55	15333	17064	12129
65	12660	14863	10722
75	10561	12555	8999
85	10539	12509	7484

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	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825
2.5	1143.471	1137.413	1131.845	1130.259	1111.517	1094.315	1070.208	1058.419	1059.391	1058.419
5.0	1186.406	1176.491	1159.577	1142.422	1105.825	1073.466	1037.927	1020.041	1016.293	1020.041
7.5	1222.676	1209.751	1183.808	1151.606	1097.201	1047.850	1005.965	976.492	980.839	976.492
10.0	1252.764	1239.061	1201.943	1157.018	1084.602	1021.783	974.906	951.280	949.453	951.280
12.5	1282.035	1263.581	1216.167	1157.951	1068.660	993.204	944.569	917.701	916.597	917.701
15.0	1298.622	1280.697	1226.743	1154.654	1049.794	966.165	913.105	880.093	883.585	880.093
17.5	1304.968	1286.996	1231.705	1146.318	1026.293	935.058	882.450	855.084	853.824	855.084
20.0	1299.275	1283.582	1228.773	1133.883	1003.687	904.691	851.794	826.870	823.736	826.870
22.5	1284.477	1270.572	1222.271	1116.074	975.388	871.959	821.543	798.042	796.091	798.042
25.0	1258.783	1249.513	1201.127	1096.112	945.059	839.468	789.255	769.098	768.764	769.098
27.5	1231.129	1219.627	1179.088	1070.900	910.500	806.052	759.089	740.597	741.118	740.597
30.0	1190.473	1183.645	1147.538	1040.937	875.863	771.003	728.675	710.999	713.472	710.999
32.5	1145.587	1142.826	1114.278	1007.840	836.583	735.837	697.857	682.327	685.336	682.327
35.0	1091.594	1095.217	1074.353	971.328	798.532	699.039	665.413	653.382	655.085	653.382
37.5	1035.485	1041.745	1029.956	928.231	758.763	661.758	632.479	623.458	626.141	623.458
40.0	974.983	985.723	983.032	885.537	720.300	625.285	600.035	593.285	596.862	593.285
42.5	907.327	925.307	929.288	838.823	675.903	588.696	567.342	563.936	565.312	563.936
45.0	841.467	863.133	875.373	790.437	633.295	550.715	533.195	531.772	511.972	531.772
47.5	779.013	797.552	823.083	740.472	589.544	513.963	498.713	500.098	506.436	500.098
50.0	708.106	732.097	761.695	686.067	545.388	475.827	465.779	468.019	473.261	468.019
52.5	642.565	668.057	703.386	633.824	502.781	439.596	430.653	434.556	441.548	434.556
55.0	579.302	604.506	644.680	581.659	458.221	402.602	395.689	402.680	407.074	402.680
57.5	514.896	541.772	582.312	529.618	416.748	365.803	360.477	368.245	374.054	368.245
60.0	457.490	483.596	524.734	476.682	377.391	321.998	320.373	332.465	340.716	332.465
62.5	399.912	427.114	466.837	426.508	329.953	295.223	293.909	303.132	306.040	303.132
65.0	352.428	373.526	413.738	377.188	298.481	260.291	260.306	269.335	271.761	269.335
67.5	305.099	324.743	360.718	329.821	260.952	226.750	226.221	234.511	235.203	234.511
70.0	261.029	277.578	310.302	285.020	222.209	193.575	193.824	200.496	205.209	200.496
72.5	217.605	232.606	259.077	240.048	187.284	162.142	162.352	166.715	169.157	166.715
75.0	180.036	191.950	214.028	199.470	153.409	131.510	131.176	127.287	136.090	127.287
77.5	143.603	154.459	171.334	161.209	123.275	102.527	101.018	102.573	102.153	102.573
80.0	112.543	120.553	132.630	124.744	93.607	75.309	72.385	71.599	71.848	71.599
82.5	84.081	89.166	98.071	92.705	67.960	49.918	47.383	40.493	43.378	40.493
85.0	60.502	62.539	71.809	68.356	42.966	27.957	23.252	18.990	15.841	18.990
87.5	36.317	38.168	40.322	35.640	20.266	7.629	4.083	1.462	0.995	1.462
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	15.436	15.436	15.436	16.980	16.980	16.980	15.436	15.436	15.436	15.436
95.0	36.532	34.989	34.989	35.503	36.018	35.503	34.989	34.989	36.532	34.989
97.5	57.628	56.085	55.056	55.570	55.570	55.570	55.056	56.085	57.628	56.085
100.0	79.239	76.666	76.666	76.666	76.152	76.666	76.666	76.666	79.239	76.666
102.5	101.879	99.821	98.792	98.277	98.277	98.277	98.792	99.821	101.879	99.821
105.0	125.548	124.004	121.431	120.917	120.402	120.917	121.431	124.004	125.548	124.004
107.5	149.731	148.188	145.100	144.586	144.071	144.586	145.100	148.188	149.731	148.188
110.0	174.944	173.400	170.827	169.798	168.255	169.798	170.827	173.400	174.944	173.400
112.5	201.185	198.612	197.069	194.496	192.952	194.496	197.069	198.612	201.185	198.612
115.0	227.427	225.883	224.854	219.709	218.680	219.709	224.854	225.883	227.427	225.883
117.5	255.212	252.639	252.639	246.465	245.436	246.465	252.639	252.639	255.212	252.639
120.0	283.512	279.395	280.424	274.250	272.192	274.250	280.424	279.395	283.512	279.395
122.5	310.268	306.151	308.209	303.064	299.462	303.064	308.209	306.151	310.268	306.151
125.0	340.111	333.936	335.995	330.849	328.277	330.849	335.995	333.936	340.111	333.936
127.5	369.440	362.751	363.780	359.663	358.634	359.663	363.780	362.751	369.440	362.751
130.0	398.254	391.565	392.594	387.449	387.963	387.449	392.594	391.565	398.254	391.565
132.5	427.068	419.865	421.408	416.263	416.263	416.263	421.408	419.865	427.068	419.865

IES INDOOR REPORT

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CANDELA TABULATION - (Cont.)

135.0	454.853	448.164	450.223	445.592	445.592	445.592	450.223	448.164	454.853	448.164
137.5	483.153	476.464	478.522	474.406	473.891	474.406	478.522	476.464	483.153	476.464
140.0	511.453	504.764	506.307	503.735	502.191	503.735	506.307	504.764	511.453	504.764
142.5	538.209	531.005	533.063	530.491	528.433	530.491	533.063	531.005	538.209	531.005
145.0	565.479	557.761	559.820	557.761	554.160	557.761	559.820	557.761	565.479	557.761
147.5	590.692	582.974	585.547	582.459	578.857	582.459	585.547	582.974	590.692	582.974
150.0	614.875	607.157	610.244	606.643	603.555	606.643	610.244	607.157	614.875	607.157
152.5	638.030	630.312	633.399	630.312	627.224	630.312	633.399	630.312	638.030	630.312
155.0	660.155	652.437	656.039	652.951	649.864	652.951	656.039	652.437	660.155	652.437
157.5	679.193	671.989	676.106	673.018	669.931	673.018	676.106	671.989	679.193	671.989
160.0	697.716	691.027	694.629	691.542	688.455	691.542	694.629	691.027	697.716	691.027
162.5	713.667	708.007	710.580	708.522	706.463	708.522	710.580	708.007	713.667	708.007
165.0	728.074	722.929	724.472	723.443	721.900	723.443	724.472	722.929	728.074	722.929
167.5	738.879	735.792	736.821	735.792	735.278	735.792	736.821	735.792	738.879	735.792
170.0	748.656	747.112	747.627	746.598	746.083	746.598	747.627	747.112	748.656	747.112
172.5	756.888	756.374	756.374	755.859	755.859	755.859	756.374	756.374	756.888	756.374
175.0	762.548	762.548	762.548	762.548	762.034	762.548	762.548	762.548	762.548	762.548
177.5	765.635	766.150	766.150	766.150	765.635	766.150	766.150	766.150	765.635	766.150
180.0	767.694	767.694	767.694	767.694	767.694	767.694	767.694	767.694	767.694	767.694

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	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825	1105.825
2.5	1070.208	1094.315	1111.517	1130.259	1131.845	1137.413	1143.471
5.0	1037.927	1073.466	1105.825	1142.422	1159.577	1176.491	1186.406
7.5	1005.965	1047.850	1097.201	1151.606	1183.808	1209.751	1222.676
10.0	974.906	1021.783	1084.602	1157.018	1201.943	1239.061	1252.764
12.5	944.569	993.204	1068.660	1157.951	1216.167	1263.581	1282.035
15.0	913.105	966.165	1049.794	1154.654	1226.743	1280.697	1298.622
17.5	882.450	935.058	1026.293	1146.318	1231.705	1286.996	1304.968
20.0	851.794	904.691	1003.687	1133.883	1228.773	1283.582	1299.275
22.5	821.543	871.959	975.388	1116.074	1222.271	1270.572	1284.477
25.0	789.255	839.468	945.059	1096.112	1201.127	1249.513	1258.783
27.5	759.089	806.052	910.500	1070.900	1179.088	1219.627	1231.129
30.0	728.675	771.003	875.863	1040.937	1147.538	1183.645	1190.473
32.5	697.857	735.837	836.583	1007.840	1114.278	1142.826	1145.587
35.0	665.413	699.039	798.532	971.328	1074.353	1095.217	1091.594
37.5	632.479	661.758	758.763	928.231	1029.956	1041.745	1035.485
40.0	600.035	625.285	720.300	885.537	983.032	985.723	974.983
42.5	567.342	588.696	675.903	838.823	929.288	925.307	907.327
45.0	533.195	550.715	633.295	790.437	875.373	863.133	841.467
47.5	498.713	513.963	589.544	740.472	823.083	797.552	779.013
50.0	465.779	475.827	545.388	686.067	761.695	732.097	708.106
52.5	430.653	439.596	502.781	633.824	703.386	668.057	642.565
55.0	395.689	402.602	458.221	581.659	644.680	604.506	579.302
57.5	360.477	365.803	416.748	529.618	582.312	541.772	514.896
60.0	320.373	321.998	377.391	476.682	524.734	483.596	457.490
62.5	293.909	295.223	329.953	426.508	466.837	427.114	399.912
65.0	260.306	260.291	298.481	377.188	413.738	373.526	352.428
67.5	226.221	226.750	260.952	329.821	360.718	324.743	305.099
70.0	193.824	193.575	222.209	285.020	310.302	277.578	261.029
72.5	162.352	162.142	187.284	240.048	259.077	232.606	217.605
75.0	131.176	131.510	153.409	199.470	214.028	191.950	180.036
77.5	101.018	102.527	123.275	161.209	171.334	154.459	143.603
80.0	72.385	75.309	93.607	124.744	132.630	120.553	112.543

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-F-DAO-ITL85132-KPL2008-3.011.IES****CANDELA TABULATION - (Cont.)**

82.5	47.383	49.918	67.960	92.705	98.071	89.166	84.081
85.0	23.252	27.957	42.966	68.356	71.809	62.539	60.502
87.5	4.083	7.629	20.266	35.640	40.322	38.168	36.317
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	15.436	16.980	16.980	16.980	15.436	15.436	15.436
95.0	34.989	35.503	36.018	35.503	34.989	34.989	36.532
97.5	55.056	55.570	55.570	55.570	55.056	56.085	57.628
100.0	76.666	76.666	76.152	76.666	76.666	76.666	79.239
102.5	98.792	98.277	98.277	98.277	98.792	99.821	101.879
105.0	121.431	120.917	120.402	120.917	121.431	124.004	125.548
107.5	145.100	144.586	144.071	144.586	145.100	148.188	149.731
110.0	170.827	169.798	168.255	169.798	170.827	173.400	174.944
112.5	197.069	194.496	192.952	194.496	197.069	198.612	201.185
115.0	224.854	219.709	218.680	219.709	224.854	225.883	227.427
117.5	252.639	246.465	245.436	246.465	252.639	252.639	255.212
120.0	280.424	274.250	272.192	274.250	280.424	279.395	283.512
122.5	308.209	303.064	299.462	303.064	308.209	306.151	310.268
125.0	335.995	330.849	328.277	330.849	335.995	333.936	340.111
127.5	363.780	359.663	358.634	359.663	363.780	362.751	369.440
130.0	392.594	387.449	387.963	387.449	392.594	391.565	398.254
132.5	421.408	416.263	416.263	416.263	421.408	419.865	427.068
135.0	450.223	445.592	445.592	445.592	450.223	448.164	454.853
137.5	478.522	474.406	473.891	474.406	478.522	476.464	483.153
140.0	506.307	503.735	502.191	503.735	506.307	504.764	511.453
142.5	533.063	530.491	528.433	530.491	533.063	531.005	538.209
145.0	559.820	557.761	554.160	557.761	559.820	557.761	565.479
147.5	585.547	582.459	578.857	582.459	585.547	582.974	590.692
150.0	610.244	606.643	603.555	606.643	610.244	607.157	614.875
152.5	633.399	630.312	627.224	630.312	633.399	630.312	638.030
155.0	656.039	652.951	649.864	652.951	656.039	652.437	660.155
157.5	676.106	673.018	669.931	673.018	676.106	671.989	679.193
160.0	694.629	691.542	688.455	691.542	694.629	691.027	697.716
162.5	710.580	708.522	706.463	708.522	710.580	708.007	713.667
165.0	724.472	723.443	721.900	723.443	724.472	722.929	728.074
167.5	736.821	735.792	735.278	735.792	736.821	735.792	738.879
170.0	747.627	746.598	746.083	746.598	747.627	747.112	748.656
172.5	756.374	755.859	755.859	755.859	756.374	756.374	756.888
175.0	762.548	762.548	762.034	762.548	762.548	762.548	762.548
177.5	766.150	766.150	765.635	766.150	766.150	766.150	765.635
180.0	767.694	767.694	767.694	767.694	767.694	767.694	767.694

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-F-DAO-ITL85132-KPL2008-3.011.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	406.82	N.A.	8.40
0-30	861.60	N.A.	17.70
0-40	1394.96	N.A.	28.60
0-60	2366.56	N.A.	48.60
0-80	2858.75	N.A.	58.70
0-90	2908.44	N.A.	59.70
10-90	2803.61	N.A.	57.60
20-40	988.14	N.A.	20.30
20-50	1514.75	N.A.	31.10
40-70	1289.14	N.A.	26.50
60-80	492.19	N.A.	10.10
70-80	174.65	N.A.	3.60
80-90	49.69	N.A.	1.00
90-110	169.39	N.A.	3.50
90-120	390.91	N.A.	8.00
90-130	689.69	N.A.	14.20
90-150	1384.95	N.A.	28.40
90-180	1962.13	N.A.	40.30
110-180	1792.74	N.A.	36.80
0-180	4870.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.83
10-20	301.99
20-30	454.77
30-40	533.36
40-50	526.62
50-60	444.98
60-70	317.55
70-80	174.65
80-90	49.69
90-100	39.65
100-110	129.74
110-120	221.52
120-130	298.78
130-140	346.06
140-150	349.20
150-160	300.89
160-170	203.98
170-180	72.30

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-F-DAO-ITL85132-KPL2008-3.011.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

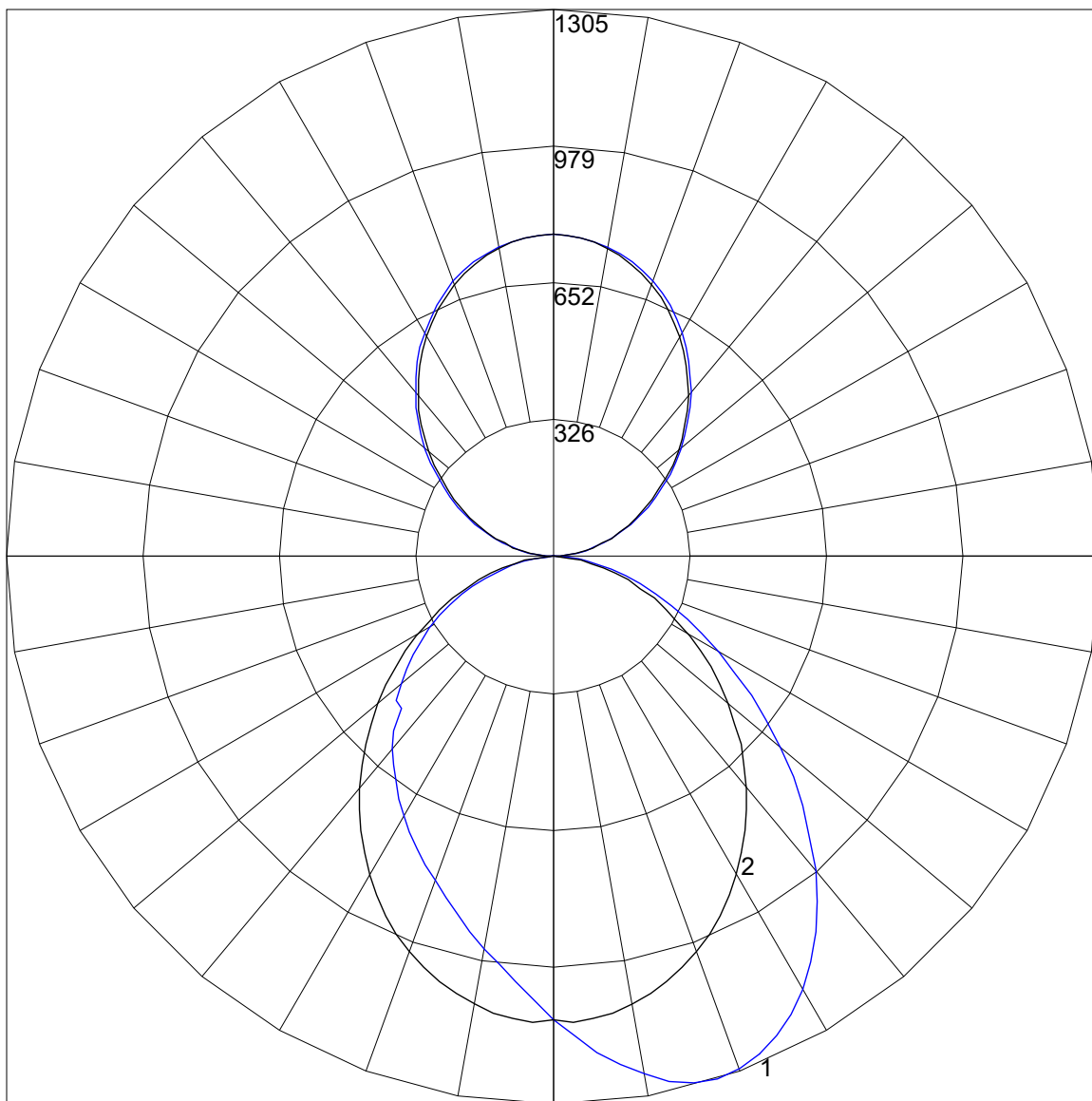
Effective Floor Cavity Reflectance 0.20

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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	100	96	92	88	93	90	86	83	78	75	73	67	66	64	58	56	55	50
2	91	84	78	72	85	78	73	68	68	64	61	59	56	54	51	49	47	42
3	83	74	66	60	77	69	63	57	60	55	51	53	49	45	45	42	40	36
4	76	65	57	51	71	61	54	49	54	48	44	47	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	33	30	27
6	65	52	44	38	60	49	42	36	44	38	33	38	33	30	33	29	26	24
7	60	47	39	34	56	45	37	32	39	34	29	35	30	26	30	26	23	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	25	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	22	19	24	20	17	15

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-H-835-F-DAO-ITL85132-KPL2008-3.011.IES

POLAR GRAPH



Maximum Candela = 1304.968 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)