



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : FLK HI 77 UV 8SEL [4000K].IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] BLC2006023E-A  
[ISSUEDATE] 2020-6-17 10:02  
[MANUFAC] LumenFocus, LLC.  
[LUMCAT] FLK HI 77 UV 8SEL [4000K]  
[LUMINAIRE]  
[LAMPCAT]  
[LAMP]  
[ \_VOLTAGE] 120.0 V  
[ \_CURRENT] 0.6091 A  
[ \_POWERFACTOR] 0.994  
[ \_THD] 10.87  
[TESTLAB] Belling Test Laboratory Co., LTD  
[ \_TESTINST] GPM-3000  
[ \_TESTDIST] 14.040 m [K=1.0000]  
[ \_TESTTEMPERATURE] 25.0 'C  
[ \_TESTHUMIDITY]  
[ \_TESTOPERATOR]  
[BALLAST]  
[BALLASTCAT]

Note: Candela values converted from Type-C to Type-B

### CHARACTERISTICS

NEMA Type	7 H x 7 V
Maximum Candela	3793.412
Maximum Candela Angle	1H 0V
Horizontal Beam Angle (50%)	113.9
Vertical Beam Angle (50%)	111.8
Horizontal Field Angle (10%)	153.9
Vertical Field Angle (10%)	145.6
Lumens Per Lamp	10364.89 (1 lamp)
Total Lamp Lumens	10364.89
Beam Lumens	8107
Beam Efficiency	78 %
Field Lumens	10243
Field Efficiency	99 %
Spill Lumens	128
Luminaire Lumens	10371
Total Efficiency	100 %
Total Luminaire Watts	72.7
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	.043	90	.04
85	14.993	85	6.922
75	457.605	75	87.756
65	1294.356	65	962.283
55	2005.52	55	1969.751
47.5	2456.291	47.5	2466.667
42.5	2722.928	42.5	2743.747
37.5	2950.418	37.5	2987.472
33	3141.07	33	3173.932
29	3284.21	29	3316.985
25.5	3405.794	25.5	3421.654
22.5	3486.661	22.5	3507.317
19.5	3562.994	19.5	3580.211
17	3627.294	17	3627.468
15	3665.124	15	3662.532
13	3695.881	13	3695.002
11	3705.276	11	3719.412
9	3724.034	9	3740.101
7	3749.724	7	3761.538
5	3773.266	5	3773.179
3	3791.329	3	3788.389
1	3793.412	1	3791.362
0	3792.794	0	3792.794
-1	3782.032	-1	3784.744
-3	3773.114	-3	3776.141
-5	3758.956	-5	3765.118
-7	3751.037	-7	3748.921
-9	3738.343	-9	3727.321
-11	3734.883	-11	3697.899
-13	3707.196	-13	3667.858
-15	3670.278	-15	3629.909
-17	3626.058	-17	3592.264
-19.5	3570.571	-19.5	3533.024
-22.5	3503.238	-22.5	3462.153
-25.5	3428.825	-25.5	3383.711
-29	3335.731	-29	3271.81
-33	3197.604	-33	3137.881
-37.5	3014.795	-37.5	2946.594
-42.5	2784.837	-42.5	2708.537
-47.5	2521.97	-47.5	2447.199
-55	2068.053	-55	1983.508
-65	1355.348	-65	1168.9
-75	476.059	-75	282.363
-85	13.615	-85	22.208
-90	.037	-90	.047

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**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 5185.64

Total Field Lumens (one side of beam only) = 5121.63

\* Indicates Values Inside Field Edge

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>1</u>	<u>3</u>	<u>5</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
90										
85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
75	0.15	0.30	0.31	0.31	0.31	0.31	0.32	0.31	0.30	0.29
65	1.60 *	3.23 *	3.25 *	3.24 *	3.22 *	3.18 *	3.13 *	3.06 *	2.98 *	3.59 *
55	4.47 *	8.97 *	8.95 *	8.88 *	8.80 *	8.69 *	8.56 *	8.41 *	8.22 *	9.94 *
47.5	5.07 *	10.14 *	10.11 *	10.03 *	9.94 *	9.82 *	9.69 *	9.53 *	9.33 *	11.32 *
42.5	3.97 *	7.93 *	7.91 *	7.86 *	7.80 *	7.71 *	7.61 *	7.48 *	7.33 *	8.92 *
37.5	4.36 *	8.72 *	8.70 *	8.65 *	8.58 *	8.48 *	8.37 *	8.24 *	8.07 *	9.83 *
33	4.22 *	8.44 *	8.42 *	8.37 *	8.31 *	8.21 *	8.10 *	7.97 *	7.82 *	9.53 *
29	3.96 *	7.90 *	7.88 *	7.84 *	7.78 *	7.70 *	7.59 *	7.47 *	7.33 *	8.94 *
25.5	3.59 *	7.18 *	7.16 *	7.12 *	7.07 *	6.99 *	6.90 *	6.79 *	6.67 *	8.13 *
22.5	3.17 *	6.33 *	6.31 *	6.28 *	6.23 *	6.17 *	6.08 *	5.99 *	5.88 *	7.17 *
19.5	3.24 *	6.47 *	6.45 *	6.42 *	6.37 *	6.30 *	6.22 *	6.12 *	6.01 *	7.33 *
17	2.74 *	5.49 *	5.47 *	5.44 *	5.40 *	5.34 *	5.27 *	5.19 *	5.10 *	6.22 *
15	2.22 *	4.44 *	4.43 *	4.41 *	4.37 *	4.33 *	4.27 *	4.20 *	4.13 *	5.03 *
13	2.24 *	4.48 *	4.47 *	4.45 *	4.41 *	4.37 *	4.31 *	4.24 *	4.17 *	5.08 *
11	2.26 *	4.52 *	4.51 *	4.49 *	4.45 *	4.40 *	4.34 *	4.27 *	4.20 *	5.12 *
9	2.27 *	4.55 *	4.54 *	4.51 *	4.48 *	4.43 *	4.37 *	4.30 *	4.22 *	5.15 *
7	2.29 *	4.57 *	4.56 *	4.54 *	4.50 *	4.45 *	4.39 *	4.32 *	4.24 *	5.18 *
5	2.30 *	4.59 *	4.58 *	4.56 *	4.52 *	4.47 *	4.41 *	4.34 *	4.26 *	5.19 *
3	2.30 *	4.61 *	4.59 *	4.56 *	4.53 *	4.48 *	4.42 *	4.35 *	4.27 *	5.20 *
1	2.31 *	4.61 *	4.59 *	4.56 *	4.52 *	4.48 *	4.42 *	4.36 *	4.27 *	5.20 *
0	1.15 *	2.30 *	2.29 *	2.28 *	2.26 *	2.24 *	2.21 *	2.18 *	2.14 *	2.60 *
-1	1.15 *	2.31 *	2.29 *	2.28 *	2.26 *	2.24 *	2.21 *	2.18 *	2.14 *	2.60 *
-3	2.30 *	4.61 *	4.59 *	4.56 *	4.51 *	4.47 *	4.42 *	4.35 *	4.27 *	5.20 *
	2.30 *	4.59 *	4.58 *	4.55 *	4.51 *	4.46 *	4.40 *	4.34 *	4.25 *	5.18 *

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**LUMENS TABULATION - (Cont.)**

<b>-5</b>	2.29 *	4.58 *	4.56 *	4.53 *	4.49 *	4.44 *	4.39 *	4.32 *	4.24 *	5.17 *
<b>-7</b>	2.28 *	4.55 *	4.54 *	4.51 *	4.47 *	4.42 *	4.36 *	4.30 *	4.22 *	5.14 *
<b>-9</b>	2.26 *	4.52 *	4.51 *	4.48 *	4.44 *	4.39 *	4.34 *	4.27 *	4.19 *	5.11 *
<b>-11</b>	2.24 *	4.49 *	4.48 *	4.45 *	4.41 *	4.36 *	4.30 *	4.23 *	4.16 *	5.07 *
<b>-13</b>	2.22 *	4.45 *	4.44 *	4.42 *	4.38 *	4.33 *	4.27 *	4.20 *	4.12 *	5.02 *
<b>-15</b>	2.20 *	4.40 *	4.39 *	4.37 *	4.33 *	4.28 *	4.22 *	4.15 *	4.08 *	4.97 *
<b>-17</b>	2.71 *	5.43 *	5.42 *	5.39 *	5.35 *	5.29 *	5.21 *	5.13 *	5.03 *	6.13 *
<b>-19.5</b>	3.20 *	6.39 *	6.38 *	6.35 *	6.30 *	6.23 *	6.15 *	6.04 *	5.93 *	7.23 *
<b>-22.5</b>	3.13 *	6.25 *	6.24 *	6.21 *	6.16 *	6.09 *	6.01 *	5.91 *	5.80 *	7.07 *
<b>-25.5</b>	3.55 *	7.09 *	7.07 *	7.04 *	6.98 *	6.91 *	6.81 *	6.70 *	6.57 *	8.01 *
<b>-29</b>	3.91 *	7.80 *	7.78 *	7.74 *	7.68 *	7.60 *	7.49 *	7.37 *	7.23 *	8.81 *
<b>-33</b>	4.17 *	8.33 *	8.31 *	8.26 *	8.20 *	8.11 *	8.00 *	7.87 *	7.72 *	9.40 *
<b>-37.5</b>	4.31 *	8.61 *	8.59 *	8.55 *	8.48 *	8.39 *	8.28 *	8.15 *	7.99 *	9.73 *
<b>-42.5</b>	3.93 *	7.85 *	7.83 *	7.79 *	7.73 *	7.65 *	7.55 *	7.43 *	7.28 *	8.87 *
<b>-47.5</b>	5.06 *	10.13 *	10.10 *	10.04 *	9.96 *	9.85 *	9.71 *	9.55 *	9.35 *	11.38 *
<b>-55</b>	4.81 *	9.63 *	9.61 *	9.56 *	9.48 *	9.38 *	9.24 *	9.08 *	8.87 *	10.76 *
<b>-65</b>	2.21 *	4.45 *	4.47 *	4.45 *	4.42 *	4.37 *	4.31 *	4.22 *	4.12 *	4.97 *
<b>-75</b>	0.47	0.94	0.95	0.95	0.94	0.93	0.92	0.90	0.87	1.05
<b>-85</b>	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
<b>-90</b>										
<b>Total</b>	120.62	241.25	240.66	239.33	237.36	234.78	231.63	227.83	223.35	271.93

**Vert. Horizontal Angles**

	<u>19.5</u>	<u>22.5</u>	<u>25.5</u>	<u>29</u>	<u>33</u>	<u>37.5</u>	<u>42.5</u>	<u>47.5</u>	<u>55</u>	<u>65</u>
<b>90</b>	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
<b>85</b>	0.39	0.40	0.49	0.55	0.54	0.45	0.34	0.41	0.29	0.10
<b>75</b>	4.12 *	3.91 *	4.27 *	4.48 *	4.44 *	4.08	3.16	3.12	1.88	0.46
<b>65</b>	11.34 *	10.68 *	11.66 *	12.22 *	12.26 *	11.49 *	9.05 *	9.34 *	5.99 *	1.52
<b>55</b>	12.99 *	12.32 *	13.54 *	14.23 *	14.32 *	13.58 *	11.02 *	11.91 *	8.16 *	2.27
<b>47.5</b>	10.32 *	9.84 *	10.80 *	11.37 *	11.45 *	10.96 *	9.06 *	10.00 *	7.14 *	2.12 *

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**LUMENS TABULATION - (Cont.)**

<b>42.5</b>										
	11.38 *	10.86 *	11.95 *	12.60 *	12.72 *	12.22 *	10.15 *	11.33 *	8.31 *	2.60 *
<b>37.5</b>										
	11.03 *	10.53 *	11.60 *	12.26 *	12.41 *	11.95 *	9.95 *	11.20 *	8.37 *	2.72 *
<b>33</b>										
	10.35 *	9.90 *	10.90 *	11.53 *	11.69 *	11.29 *	9.43 *	10.65 *	8.06 *	2.69 *
<b>29</b>										
	9.42 *	9.01 *	9.94 *	10.52 *	10.67 *	10.32 *	8.65 *	9.79 *	7.48 *	2.55 *
<b>25.5</b>										
	8.31 *	7.95 *	8.77 *	9.29 *	9.43 *	9.14 *	7.66 *	8.69 *	6.71 *	2.32 *
<b>22.5</b>										
	8.50 *	8.13 *	8.97 *	9.51 *	9.66 *	9.37 *	7.86 *	8.94 *	6.95 *	2.43 *
<b>19.5</b>										
	7.21 *	6.90 *	7.61 *	8.07 *	8.20 *	7.96 *	6.68 *	7.61 *	5.94 *	2.10 *
<b>17</b>										
	5.84 *	5.59 *	6.17 *	6.54 *	6.65 *	6.45 *	5.42 *	6.18 *	4.84 *	1.73 *
<b>15</b>										
	5.89 *	5.64 *	6.22 *	6.60 *	6.71 *	6.51 *	5.48 *	6.25 *	4.91 *	1.76 *
<b>13</b>										
	5.94 *	5.69 *	6.27 *	6.65 *	6.76 *	6.57 *	5.53 *	6.31 *	4.97 *	1.79 *
<b>11</b>										
	5.97 *	5.72 *	6.31 *	6.69 *	6.81 *	6.61 *	5.57 *	6.36 *	5.01 *	1.81 *
<b>9</b>										
	6.00 *	5.74 *	6.34 *	6.72 *	6.84 *	6.65 *	5.60 *	6.40 *	5.05 *	1.83 *
<b>7</b>										
	6.02 *	5.76 *	6.36 *	6.75 *	6.86 *	6.67 *	5.62 *	6.43 *	5.08 *	1.85 *
<b>5</b>										
	6.03 *	5.77 *	6.37 *	6.76 *	6.88 *	6.68 *	5.64 *	6.46 *	5.10 *	1.86 *
<b>3</b>										
	6.03 *	5.77 *	6.38 *	6.77 *	6.89 *	6.69 *	5.64 *	6.47 *	5.11 *	1.86 *
<b>1</b>										
	3.01 *	2.89 *	3.19 *	3.38 *	3.44 *	3.35 *	2.82 *	3.23 *	2.56 *	0.93 *
<b>0</b>										
	3.01 *	2.88 *	3.19 *	3.38 *	3.44 *	3.35 *	2.82 *	3.23 *	2.56 *	0.93 *
<b>-1</b>										
	6.02 *	5.76 *	6.37 *	6.76 *	6.88 *	6.68 *	5.64 *	6.47 *	5.11 *	1.86 *
<b>-3</b>										
	6.01 *	5.75 *	6.35 *	6.74 *	6.86 *	6.67 *	5.63 *	6.45 *	5.10 *	1.86 *
<b>-5</b>										
	5.99 *	5.73 *	6.33 *	6.72 *	6.84 *	6.65 *	5.61 *	6.42 *	5.08 *	1.85 *
<b>-7</b>										
	5.96 *	5.71 *	6.30 *	6.68 *	6.81 *	6.62 *	5.58 *	6.39 *	5.05 *	1.83 *
<b>-9</b>										
	5.93 *	5.67 *	6.26 *	6.64 *	6.76 *	6.58 *	5.55 *	6.35 *	5.01 *	1.81 *
<b>-11</b>										
	5.88 *	5.63 *	6.22 *	6.59 *	6.71 *	6.53 *	5.51 *	6.30 *	4.96 *	1.79 *
<b>-13</b>										
	5.83 *	5.58 *	6.16 *	6.53 *	6.65 *	6.47 *	5.45 *	6.23 *	4.91 *	1.77 *
<b>-15</b>										
	5.77 *	5.52 *	6.10 *	6.47 *	6.59 *	6.40 *	5.39 *	6.16 *	4.84 *	1.74 *
<b>-17</b>										
	7.11 *	6.81 *	7.52 *	7.97 *	8.12 *	7.90 *	6.65 *	7.58 *	5.94 *	2.12 *
<b>-19.5</b>										
	8.38 *	8.02 *	8.86 *	9.39 *	9.56 *	9.30 *	7.82 *	8.91 *	6.94 *	2.45 *
<b>-22.5</b>										
	8.19 *	7.83 *	8.64 *	9.16 *	9.33 *	9.06 *	7.62 *	8.66 *	6.71 *	2.35 *

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LUMENS TABULATION - (Cont.)

<b>-25.5</b>	9.28 *	8.87 *	9.78 *	10.37 *	10.55 *	10.23 *	8.59 *	9.75 *	7.48 *	2.58 *
<b>-29</b>	10.20 *	9.74 *	10.73 *	11.37 *	11.55 *	11.19 *	9.38 *	10.62 *	8.07 *	2.74 *
<b>-33</b>	10.88 *	10.39 *	11.44 *	12.09 *	12.26 *	11.85 *	9.91 *	11.18 *	8.40 *	2.79 *
<b>-37.5</b>	11.25 *	10.74 *	11.80 *	12.46 *	12.59 *	12.14 *	10.11 *	11.34 *	8.37 *	2.68 *
<b>-42.5</b>	10.25 *	9.76 *	10.72 *	11.28 *	11.37 *	10.92 *	9.05 *	10.08 *	7.27 *	2.22 *
<b>-47.5</b>	13.13 *	12.50 *	13.70 *	14.38 *	14.43 *	13.77 *	11.34 *	12.38 *	8.58 *	2.46
<b>-55</b>	12.37 *	11.75 *	12.86 *	13.45 *	13.40 *	12.62 *	10.14 *	10.55 *	6.87 *	1.82
<b>-65</b>	5.68 *	5.37 *	5.87 *	6.09 *	5.97 *	5.49 *	4.22 *	4.14	2.52	0.62
<b>-75</b>	1.20	1.13	1.22	1.24	1.18	1.04	0.78	0.76	0.45	0.13
<b>-85</b>	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.03	0.01
<b>-90</b>										
<b>Total</b>	314.43	300.23	330.59	349.30	353.55	340.50	283.19	317.11	238.20	79.76

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>	0.00	0.00		0.27
<b>85</b>	0.03	0.00		6.94
<b>75</b>	0.05	0.00		64.44
<b>65</b>	0.14	0.00		179.57
<b>55</b>	0.21	0.00		209.55
<b>47.5</b>	0.22	0.00		167.80
<b>42.5</b>	0.29	0.00		186.43
<b>37.5</b>	0.32	0.00		181.73
<b>33</b>	0.33	0.00		171.20
<b>29</b>	0.32	0.00		156.28
<b>25.5</b>	0.29	0.00		138.18
<b>22.5</b>	0.31	0.00		141.58
<b>19.5</b>	0.27	0.00		120.23
<b>17</b>	0.23	0.00		97.46
<b>15</b>	0.23	0.00		98.44

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**LUMENS TABULATION - (Cont.)**

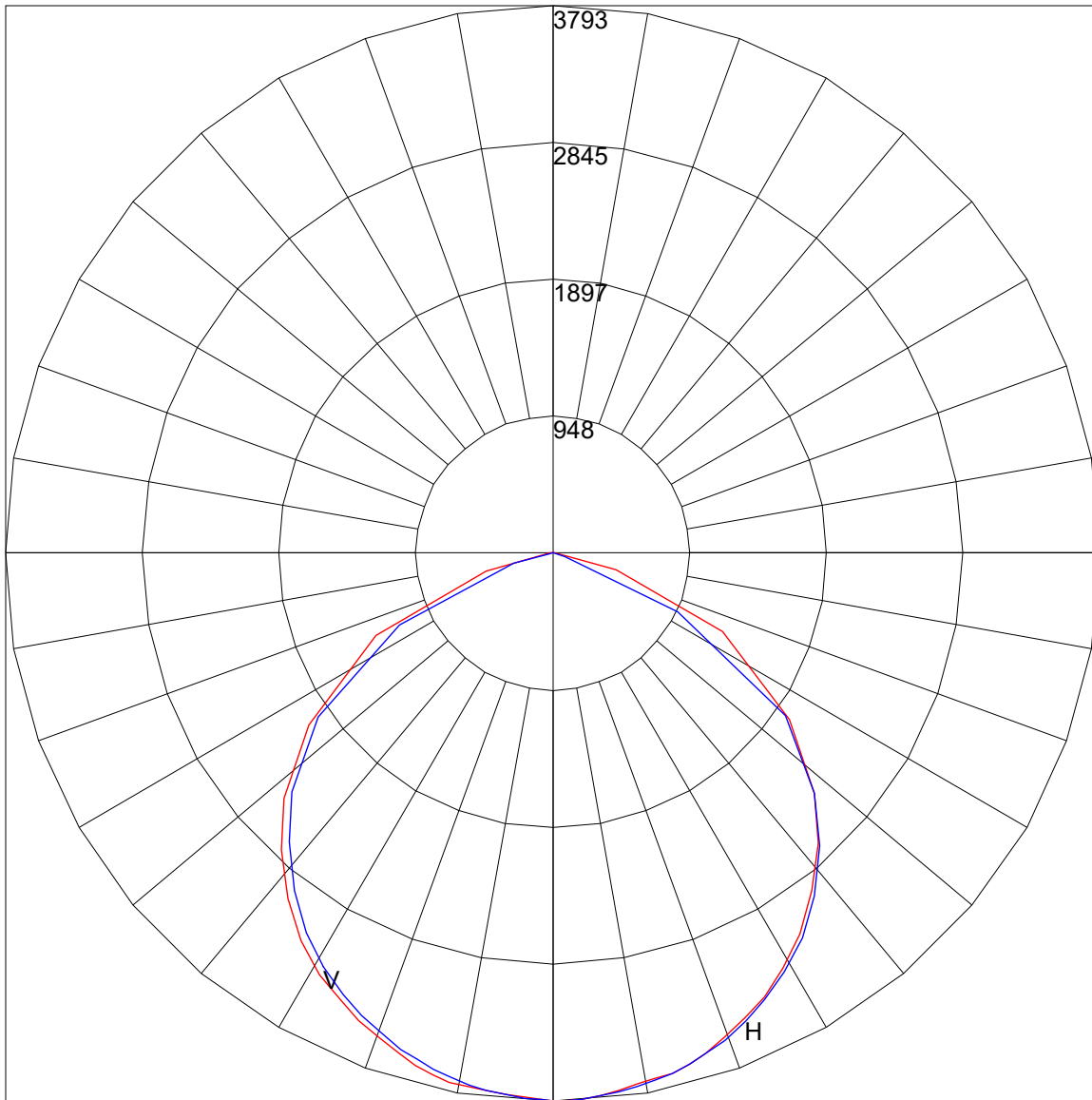
<b>13</b>	0.24	0.00	99.26
<b>11</b>	0.24	0.00	99.92
<b>9</b>	0.25	0.00	100.46
<b>7</b>	0.25	0.00	100.86
<b>5</b>	0.25	0.00	101.11
<b>3</b>	0.25	0.00	101.20
<b>1</b>	0.13	0.00	50.59
<b>0</b>	0.13	0.00	50.58
<b>-1</b>	0.25	0.00	101.08
<b>-3</b>	0.25	0.00	100.86
<b>-5</b>	0.25	0.00	100.48
<b>-7</b>	0.25	0.00	99.97
<b>-9</b>	0.25	0.00	99.33
<b>-11</b>	0.24	0.00	98.57
<b>-13</b>	0.24	0.00	97.67
<b>-15</b>	0.23	0.00	96.61
<b>-17</b>	0.28	0.00	119.08
<b>-19.5</b>	0.32	0.00	140.15
<b>-22.5</b>	0.30	0.00	136.72
<b>-25.5</b>	0.33	0.00	154.56
<b>-29</b>	0.35	0.00	169.34
<b>-33</b>	0.35	0.00	179.92
<b>-37.5</b>	0.32	0.00	184.90
<b>-42.5</b>	0.25	0.00	167.07
<b>-47.5</b>	0.25	0.00	212.04
<b>-55</b>	0.17	0.00	196.40
<b>-65</b>	0.06	0.00	88.03
<b>-75</b>	0.03	0.00	18.09

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**PHOTOMETRIC FILENAME : FLK HI 77 UV 8SEL [4000K].IES**

**LUMENS TABULATION - (Cont.)**

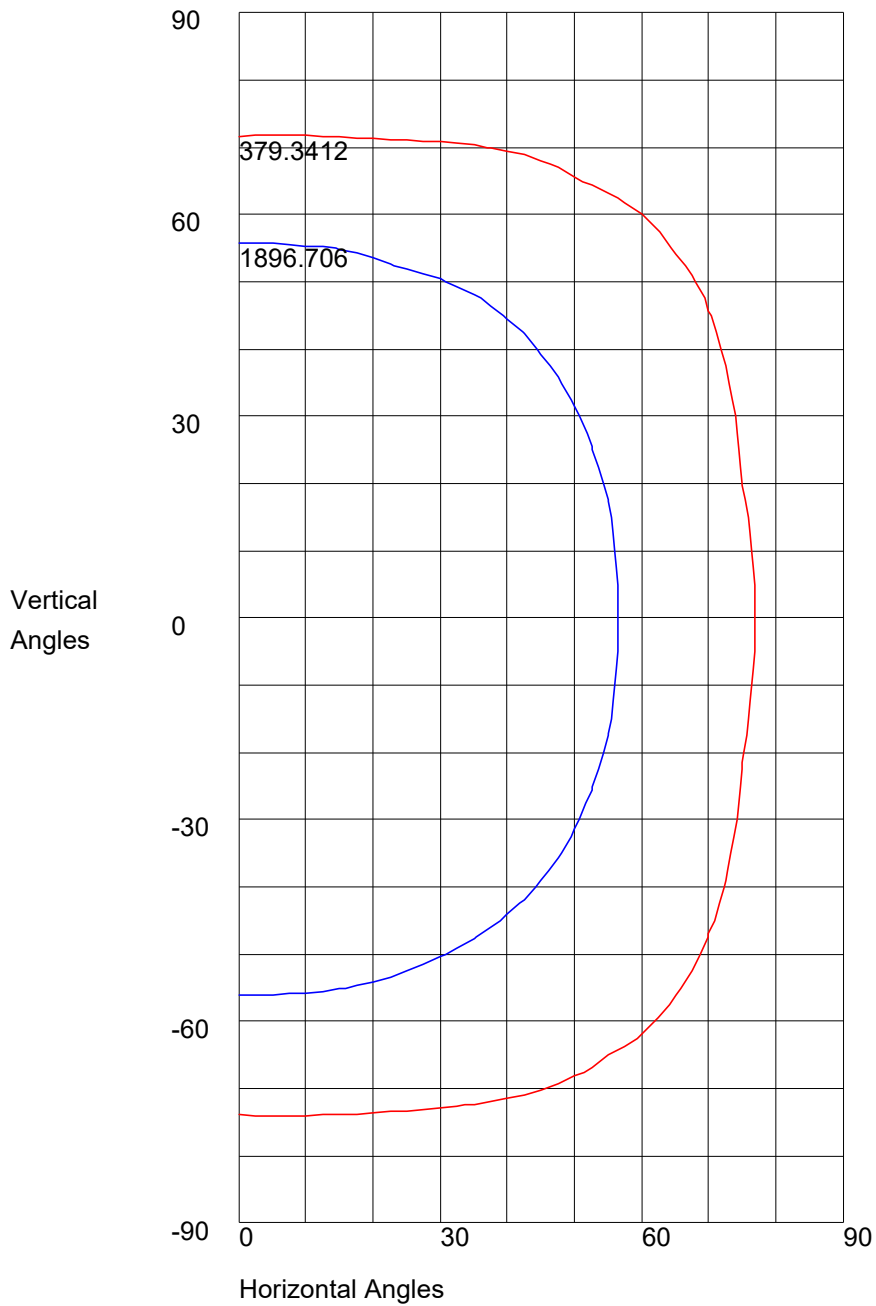
<b>-85</b>	0.00	0.00	0.69
<b>-90</b>			
<b>Total</b>	9.98	0.05	5185.64

AXIAL CANDELA DISPLAY



Maximum Candela = 3793.412 Located At Horizontal Angle = 1, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 3793.412 Located At Horizontal Angle = 1, Vertical Angle = 0  
50% Maximum Candela = 1896.706  
10% Maximum Candela = 379.3412