



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : FLK VH 77 UV 8SEL [3000K].IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] BLC2005004E-D  
[ISSUEDATE] 2020-5-10 16:03  
[MANUFAC] LumenFocus, LLC.  
[LUMCAT] FLK VH 77 UV 8SEL [3000K]  
[LUMINAIRE]  
[LAMPCAT]  
[LAMP]  
[ \_VOLTAGE] 120.0 V  
[ \_CURRENT] 0.8318A  
[ \_POWERFACTOR] 0.994  
[ \_THD] 7.99  
[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	4446.09
Maximum Candela Angle	3H 0V
Horizontal Beam Angle (50%)	113.5
Vertical Beam Angle (50%)	111.0
Horizontal Field Angle (10%)	152.9
Vertical Field Angle (10%)	145.6
Lumens Per Lamp	12062.2 (1 lamp)
Total Lamp Lumens	12062.2
Beam Lumens	9414
Beam Efficiency	78 %
Field Lumens	11900
Field Efficiency	99 %
Spill Lumens	164
Luminaire Lumens	12064
Total Efficiency	100 %
Total Luminaire Watts	99.2
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	.09	90	.12
85	30.67	85	18.96
75	568.91	75	118.42
65	1548.17	65	1174.49
55	2379.88	55	2263.71
47.5	2905.23	47.5	2906.89
42.5	3216.11	42.5	3233.09
37.5	3487.4	37.5	3516.47
33	3717.92	33	3737.63
29	3881.33	29	3904.81
25.5	4017.08	25.5	4034.84
22.5	4109.43	22.5	4127.12
19.5	4205.75	19.5	4213.19
17	4270.94	17	4272.84
15	4303.96	15	4307.59
13	4332.64	13	4353.51
11	4361.68	11	4382.58
9	4397.93	9	4400.84
7	4424.63	7	4416.27
5	4436.72	5	4432.05
3	4446.09	3	4434.88
1	4437.08	1	4434.53
0	4432.75	0	4432.75
-1	4436.72	-1	4431.16
-3	4440.86	-3	4418.75
-5	4432.38	-5	4399.6
-7	4419.76	-7	4373.54
-9	4399.55	-9	4345.36
-11	4366.91	-11	4315.39
-13	4325.06	-13	4281.88
-15	4290.61	-15	4240.23
-17	4231.27	-17	4191.29
-19.5	4175.27	-19.5	4134.22
-22.5	4092.65	-22.5	4049.29
-25.5	4011.39	-25.5	3949.04
-29	3884.22	-29	3815.81
-33	3716.47	-33	3646.68
-37.5	3489.83	-37.5	3413.74
-42.5	3216.75	-42.5	3130.09
-47.5	2910.38	-47.5	2816.3
-55	2374.29	-55	2257.68
-65	1443.73	-65	1257.99
-75	473.66	-75	300.84
-85	16.96	-85	33.69
-90	0	-90	.17

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**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 6031.79

Total Field Lumens (one side of beam only) = 5949.85

\* 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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
75	0.21	0.43	0.45	0.46	0.46	0.46	0.46	0.45	0.44	0.52
65	1.97 *	3.98 *	3.99 *	3.97 *	3.94 *	3.89 *	3.83 *	3.74 *	3.63 *	4.37 *
55	5.24 *	10.52 *	10.52 *	10.46 *	10.38 *	10.24 *	10.07 *	9.84 *	9.58 *	11.58 *
47.5	5.91 *	11.83 *	11.80 *	11.74 *	11.64 *	11.50 *	11.32 *	11.10 *	10.85 *	13.17 *
42.5	4.68 *	9.34 *	9.31 *	9.25 *	9.17 *	9.06 *	8.93 *	8.77 *	8.59 *	10.47 *
37.5	5.14 *	10.27 *	10.23 *	10.17 *	10.08 *	9.96 *	9.81 *	9.65 *	9.46 *	11.53 *
33	4.97 *	9.93 *	9.90 *	9.84 *	9.75 *	9.64 *	9.49 *	9.34 *	9.16 *	11.17 *
29	4.66 *	9.30 *	9.27 *	9.21 *	9.13 *	9.03 *	8.90 *	8.75 *	8.59 *	10.48 *
25.5	4.23 *	8.45 *	8.42 *	8.37 *	8.30 *	8.20 *	8.09 *	7.96 *	7.81 *	9.53 *
22.5	3.73 *	7.45 *	7.42 *	7.37 *	7.31 *	7.23 *	7.13 *	7.02 *	6.89 *	8.41 *
19.5	3.81 *	7.61 *	7.58 *	7.53 *	7.47 *	7.39 *	7.29 *	7.18 *	7.04 *	8.59 *
17	3.23 *	6.45 *	6.42 *	6.38 *	6.33 *	6.26 *	6.18 *	6.09 *	5.97 *	7.28 *
15	2.61 *	5.22 *	5.20 *	5.17 *	5.12 *	5.07 *	5.01 *	4.93 *	4.84 *	5.90 *
13	2.64 *	5.27 *	5.24 *	5.21 *	5.17 *	5.12 *	5.05 *	4.97 *	4.88 *	5.95 *
11	2.66 *	5.31 *	5.28 *	5.25 *	5.21 *	5.16 *	5.09 *	5.01 *	4.91 *	5.99 *
9	2.67 *	5.34 *	5.31 *	5.28 *	5.24 *	5.19 *	5.12 *	5.04 *	4.94 *	6.02 *
7	2.68 *	5.36 *	5.34 *	5.31 *	5.27 *	5.21 *	5.14 *	5.06 *	4.96 *	6.05 *
5	2.69 *	5.38 *	5.36 *	5.33 *	5.28 *	5.23 *	5.16 *	5.08 *	4.98 *	6.08 *
3	2.70 *	5.39 *	5.37 *	5.34 *	5.30 *	5.24 *	5.17 *	5.09 *	5.00 *	6.09 *
1	2.70 *	5.39 *	5.38 *	5.35 *	5.31 *	5.25 *	5.18 *	5.10 *	5.00 *	6.10 *
0	1.35 *	2.70 *	2.69 *	2.68 *	2.66 *	2.63 *	2.59 *	2.55 *	2.50 *	3.05 *
-1	1.35 *	2.70 *	2.69 *	2.68 *	2.66 *	2.63 *	2.59 *	2.55 *	2.50 *	3.05 *
-3	2.69 *	5.38 *	5.37 *	5.34 *	5.30 *	5.24 *	5.17 *	5.09 *	5.00 *	6.09 *
	2.69 *	5.37 *	5.35 *	5.32 *	5.28 *	5.22 *	5.15 *	5.07 *	4.98 *	6.07 *

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**LUMENS TABULATION - (Cont.)**

<b>-5</b>	2.67 *	5.34 *	5.33 *	5.30 *	5.25 *	5.20 *	5.13 *	5.05 *	4.96 *	6.05 *
<b>-7</b>	2.66 *	5.32 *	5.30 *	5.27 *	5.22 *	5.17 *	5.10 *	5.02 *	4.93 *	6.01 *
<b>-9</b>	2.64 *	5.28 *	5.27 *	5.24 *	5.19 *	5.13 *	5.07 *	4.99 *	4.90 *	5.97 *
<b>-11</b>	2.62 *	5.24 *	5.23 *	5.20 *	5.15 *	5.09 *	5.03 *	4.95 *	4.86 *	5.92 *
<b>-13</b>	2.60 *	5.19 *	5.18 *	5.15 *	5.11 *	5.05 *	4.98 *	4.90 *	4.81 *	5.87 *
<b>-15</b>	2.57 *	5.14 *	5.13 *	5.10 *	5.06 *	5.00 *	4.93 *	4.85 *	4.76 *	5.80 *
<b>-17</b>	3.17 *	6.34 *	6.32 *	6.29 *	6.24 *	6.17 *	6.08 *	5.98 *	5.87 *	7.15 *
<b>-19.5</b>	3.74 *	7.47 *	7.45 *	7.41 *	7.35 *	7.26 *	7.16 *	7.05 *	6.91 *	8.42 *
<b>-22.5</b>	3.65 *	7.30 *	7.28 *	7.24 *	7.18 *	7.10 *	7.00 *	6.88 *	6.75 *	8.22 *
<b>-25.5</b>	4.14 *	8.27 *	8.24 *	8.20 *	8.13 *	8.04 *	7.93 *	7.80 *	7.65 *	9.32 *
<b>-29</b>	4.55 *	9.09 *	9.06 *	9.00 *	8.93 *	8.83 *	8.71 *	8.57 *	8.40 *	10.23 *
<b>-33</b>	4.84 *	9.67 *	9.64 *	9.59 *	9.51 *	9.40 *	9.27 *	9.12 *	8.95 *	10.90 *
<b>-37.5</b>	4.98 *	9.96 *	9.94 *	9.89 *	9.80 *	9.69 *	9.57 *	9.41 *	9.23 *	11.24 *
<b>-42.5</b>	4.53 *	9.05 *	9.03 *	8.98 *	8.91 *	8.80 *	8.68 *	8.53 *	8.36 *	10.18 *
<b>-47.5</b>	5.80 *	11.59 *	11.56 *	11.49 *	11.39 *	11.26 *	11.10 *	10.90 *	10.67 *	12.98 *
<b>-55</b>	5.36 *	10.73 *	10.71 *	10.65 *	10.56 *	10.45 *	10.30 *	10.11 *	9.88 *	11.96 *
<b>-65</b>	2.38 *	4.78 *	4.79 *	4.76 *	4.72 *	4.67 *	4.60 *	4.51 *	4.40 *	5.29 *
<b>-75</b>	0.51	1.03	1.04	1.04	1.02	1.01	0.99	0.97	0.94	1.13
<b>-85</b>	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06
<b>-90</b>										
<b>Total</b>	140.67	281.24	280.45	278.87	276.56	273.47	269.65	265.11	259.81	316.30

**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>	0.04	0.04	0.05	0.05	0.05	0.05	0.04	0.05	0.07	0.04
<b>85</b>	0.59	0.60	0.73	0.81	0.80	0.70	0.54	0.65	0.54	0.22
<b>75</b>	4.99 *	4.76 *	5.24 *	5.49 *	5.46 *	5.05 *	3.91	3.89	2.44	0.67
<b>65</b>	13.34 *	12.67 *	13.81 *	14.48 *	14.46 *	13.58 *	10.79 *	11.07 *	7.14 *	1.90
<b>55</b>	15.21 *	14.49 *	15.88 *	16.71 *	16.76 *	15.92 *	12.93 *	13.84 *	9.50 *	2.71
<b>47.5</b>	12.10 *	11.54 *	12.67 *	13.34 *	13.43 *	12.87 *	10.61 *	11.65 *	8.31 *	2.50 *

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**LUMENS TABULATION - (Cont.)**

<b>42.5</b>	13.34 *	12.74 *	14.01 *	14.78 *	14.91 *	14.33 *	11.90 *	13.26 *	9.67 *	3.02 *
<b>37.5</b>	12.94 *	12.36 *	13.61 *	14.38 *	14.53 *	13.99 *	11.66 *	13.08 *	9.73 *	3.15 *
<b>33</b>	12.14 *	11.61 *	12.80 *	13.52 *	13.69 *	13.22 *	11.03 *	12.45 *	9.38 *	3.12 *
<b>29</b>	11.05 *	10.57 *	11.66 *	12.33 *	12.50 *	12.09 *	10.12 *	11.44 *	8.70 *	2.95 *
<b>25.5</b>	9.74 *	9.32 *	10.28 *	10.88 *	11.04 *	10.70 *	8.97 *	10.16 *	7.78 *	2.67 *
<b>22.5</b>	9.96 *	9.53 *	10.51 *	11.14 *	11.31 *	10.96 *	9.20 *	10.45 *	8.05 *	2.79 *
<b>19.5</b>	8.44 *	8.08 *	8.91 *	9.45 *	9.60 *	9.30 *	7.81 *	8.90 *	6.88 *	2.41 *
<b>17</b>	6.83 *	6.54 *	7.22 *	7.65 *	7.77 *	7.53 *	6.34 *	7.22 *	5.60 *	1.97 *
<b>15</b>	6.89 *	6.60 *	7.28 *	7.72 *	7.85 *	7.61 *	6.41 *	7.31 *	5.67 *	2.00 *
<b>13</b>	6.94 *	6.65 *	7.34 *	7.78 *	7.91 *	7.67 *	6.46 *	7.37 *	5.73 *	2.03 *
<b>11</b>	6.98 *	6.69 *	7.39 *	7.83 *	7.96 *	7.72 *	6.50 *	7.43 *	5.78 *	2.05 *
<b>9</b>	7.02 *	6.72 *	7.42 *	7.88 *	8.01 *	7.77 *	6.54 *	7.48 *	5.83 *	2.07 *
<b>7</b>	7.04 *	6.75 *	7.45 *	7.90 *	8.04 *	7.80 *	6.57 *	7.51 *	5.86 *	2.09 *
<b>5</b>	7.06 *	6.76 *	7.47 *	7.92 *	8.05 *	7.81 *	6.58 *	7.54 *	5.88 *	2.10 *
<b>3</b>	7.07 *	6.77 *	7.48 *	7.94 *	8.06 *	7.82 *	6.59 *	7.55 *	5.90 *	2.10 *
<b>1</b>	3.54 *	3.39 *	3.74 *	3.97 *	4.03 *	3.91 *	3.30 *	3.78 *	2.95 *	1.05 *
<b>0</b>	3.54 *	3.39 *	3.74 *	3.97 *	4.03 *	3.91 *	3.30 *	3.78 *	2.95 *	1.05 *
<b>-1</b>	7.06 *	6.76 *	7.47 *	7.92 *	8.05 *	7.81 *	6.58 *	7.54 *	5.89 *	2.10 *
<b>-3</b>	7.04 *	6.74 *	7.44 *	7.90 *	8.03 *	7.79 *	6.57 *	7.52 *	5.87 *	2.10 *
<b>-5</b>	7.00 *	6.71 *	7.41 *	7.86 *	8.00 *	7.76 *	6.54 *	7.48 *	5.84 *	2.08 *
<b>-7</b>	6.96 *	6.67 *	7.37 *	7.82 *	7.96 *	7.72 *	6.50 *	7.44 *	5.80 *	2.07 *
<b>-9</b>	6.92 *	6.63 *	7.32 *	7.76 *	7.90 *	7.66 *	6.46 *	7.39 *	5.75 *	2.05 *
<b>-11</b>	6.87 *	6.57 *	7.26 *	7.70 *	7.83 *	7.60 *	6.41 *	7.32 *	5.70 *	2.03 *
<b>-13</b>	6.80 *	6.51 *	7.19 *	7.62 *	7.76 *	7.53 *	6.34 *	7.25 *	5.63 *	2.00 *
<b>-15</b>	6.73 *	6.44 *	7.11 *	7.54 *	7.67 *	7.44 *	6.27 *	7.16 *	5.56 *	1.96 *
<b>-17</b>	8.29 *	7.93 *	8.76 *	9.30 *	9.46 *	9.17 *	7.72 *	8.81 *	6.82 *	2.40 *
<b>-19.5</b>	9.75 *	9.34 *	10.31 *	10.94 *	11.12 *	10.78 *	9.07 *	10.33 *	7.97 *	2.78 *
<b>-22.5</b>	9.52 *	9.11 *	10.06 *	10.67 *	10.84 *	10.51 *	8.83 *	10.04 *	7.70 *	2.67 *

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LUMENS TABULATION - (Cont.)

<b>-25.5</b>	10.79 *	10.32 *	11.38 *	12.06 *	12.24 *	11.86 *	9.94 *	11.27 *	8.59 *	2.94 *
<b>-29</b>	11.85 *	11.32 *	12.47 *	13.19 *	13.38 *	12.95 *	10.82 *	12.23 *	9.24 *	3.11 *
<b>-33</b>	12.61 *	12.05 *	13.26 *	14.00 *	14.17 *	13.67 *	11.42 *	12.84 *	9.56 *	3.14 *
<b>-37.5</b>	13.00 *	12.40 *	13.63 *	14.37 *	14.51 *	13.97 *	11.63 *	13.00 *	9.51 *	3.01 *
<b>-42.5</b>	11.77 *	11.22 *	12.31 *	12.96 *	13.06 *	12.54 *	10.37 *	11.46 *	8.20 *	2.49 *
<b>-47.5</b>	14.99 *	14.28 *	15.65 *	16.43 *	16.47 *	15.70 *	12.88 *	13.89 *	9.54 *	2.77
<b>-55</b>	13.74 *	13.07 *	14.32 *	14.97 *	14.87 *	13.96 *	11.18 *	11.57 *	7.54 *	2.07
<b>-65</b>	6.02 *	5.71 *	6.24 *	6.48 *	6.37 *	5.83 *	4.49 *	4.48	2.83	0.77
<b>-75</b>	1.29	1.22	1.32	1.36	1.32	1.20	0.93	0.96	0.65	0.24
<b>-85</b>	0.07	0.07	0.07	0.08	0.08	0.08	0.07	0.09	0.07	0.03
<b>-90</b>										
<b>Total</b>	365.88	349.62	385.06	406.84	411.37	395.85	329.14	367.94	274.59	91.51

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
<b>90</b>				
	0.01	0.00		0.80
<b>85</b>				
	0.05	0.00		10.58
<b>75</b>				
	0.09	0.00		79.30
<b>65</b>				
	0.19	0.00		211.88
<b>55</b>				
	0.27	0.00		245.09
<b>47.5</b>				
	0.27	0.00		196.86
<b>42.5</b>				
	0.35	0.00		218.61
<b>37.5</b>				
	0.39	0.00		213.01
<b>33</b>				
	0.39	0.00		200.66
<b>29</b>				
	0.38	0.00		183.15
<b>25.5</b>				
	0.35	0.00		161.86
<b>22.5</b>				
	0.37	0.00		165.75
<b>19.5</b>				
	0.32	0.00		140.70
<b>17</b>				
	0.26	0.00		114.01
<b>15</b>				
	0.27	0.00		115.11

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**LUMENS TABULATION - (Cont.)**

<b>13</b>			
	0.28	0.00	116.04
<b>11</b>			
	0.28	0.00	116.79
<b>9</b>			
	0.28	0.00	117.39
<b>7</b>			
	0.29	0.00	117.85
<b>5</b>			
	0.29	0.00	118.17
<b>3</b>			
	0.29	0.00	118.35
<b>1</b>			
	0.14	0.00	59.20
<b>0</b>			
	0.14	0.00	59.18
<b>-1</b>			
	0.29	0.00	118.16
<b>-3</b>			
	0.29	0.00	117.79
<b>-5</b>			
	0.29	0.00	117.26
<b>-7</b>			
	0.28	0.00	116.59
<b>-9</b>			
	0.28	0.00	115.79
<b>-11</b>			
	0.28	0.00	114.84
<b>-13</b>			
	0.27	0.00	113.75
<b>-15</b>			
	0.27	0.00	112.49
<b>-17</b>			
	0.32	0.00	138.61
<b>-19.5</b>			
	0.37	0.00	163.00
<b>-22.5</b>			
	0.36	0.00	158.89
<b>-25.5</b>			
	0.39	0.00	179.49
<b>-29</b>			
	0.40	0.00	196.33
<b>-33</b>			
	0.40	0.00	208.04
<b>-37.5</b>			
	0.37	0.00	213.13
<b>-42.5</b>			
	0.29	0.00	191.75
<b>-47.5</b>			
	0.29	0.00	241.64
<b>-55</b>			
	0.21	0.00	218.22
<b>-65</b>			
	0.10	0.00	94.24
<b>-75</b>			
	0.05	0.00	20.24

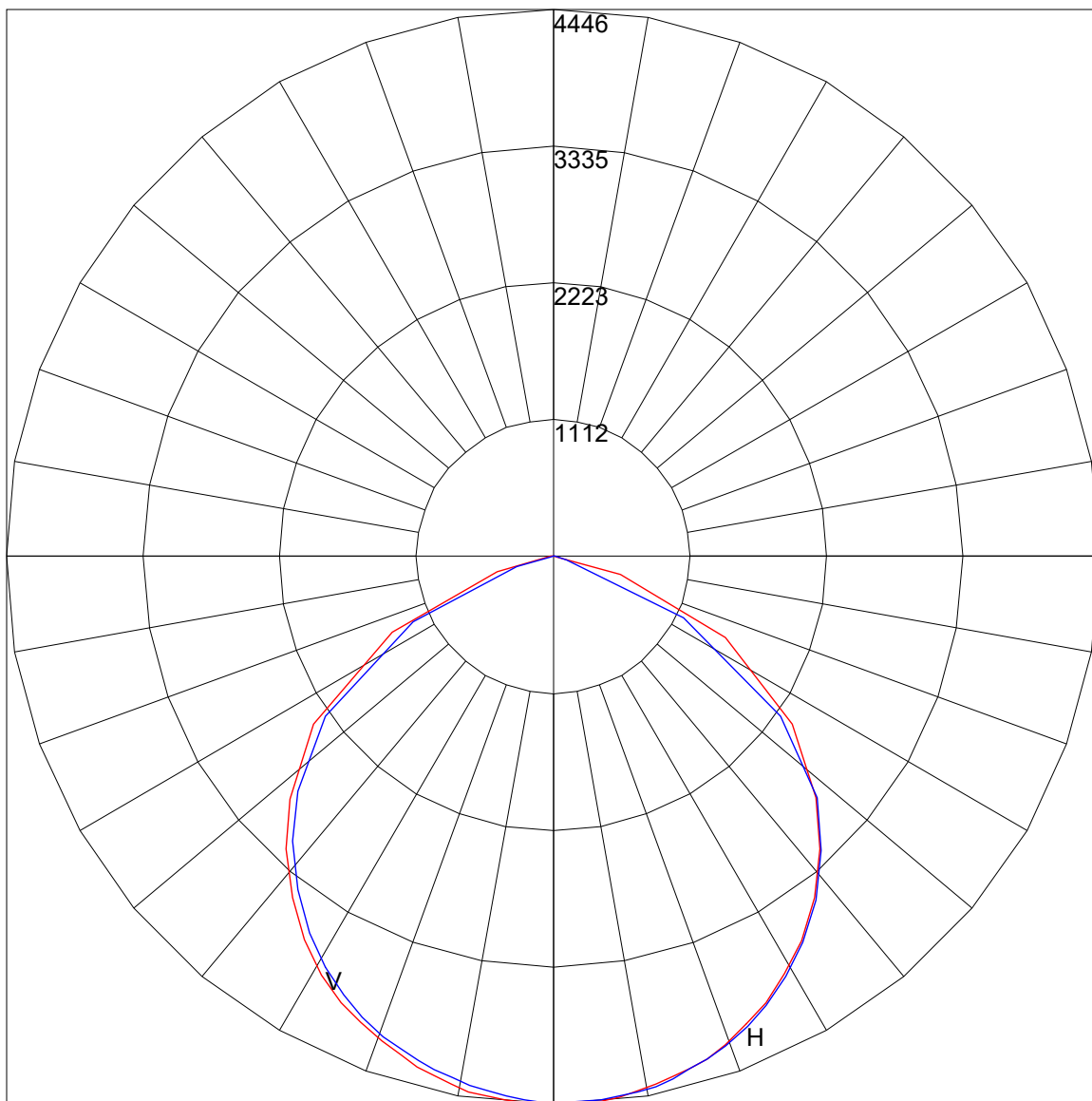
**IES FLOOD REPORT**  
**PHOTOMETRIC FILENAME : FLK VH 77 UV 8SEL [3000K].IES**

**LUMENS TABULATION - (Cont.)**

<b>-85</b>	0.01	0.00	1.20
<b>-90</b>			
<b>Total</b>	11.77	0.08	6031.79

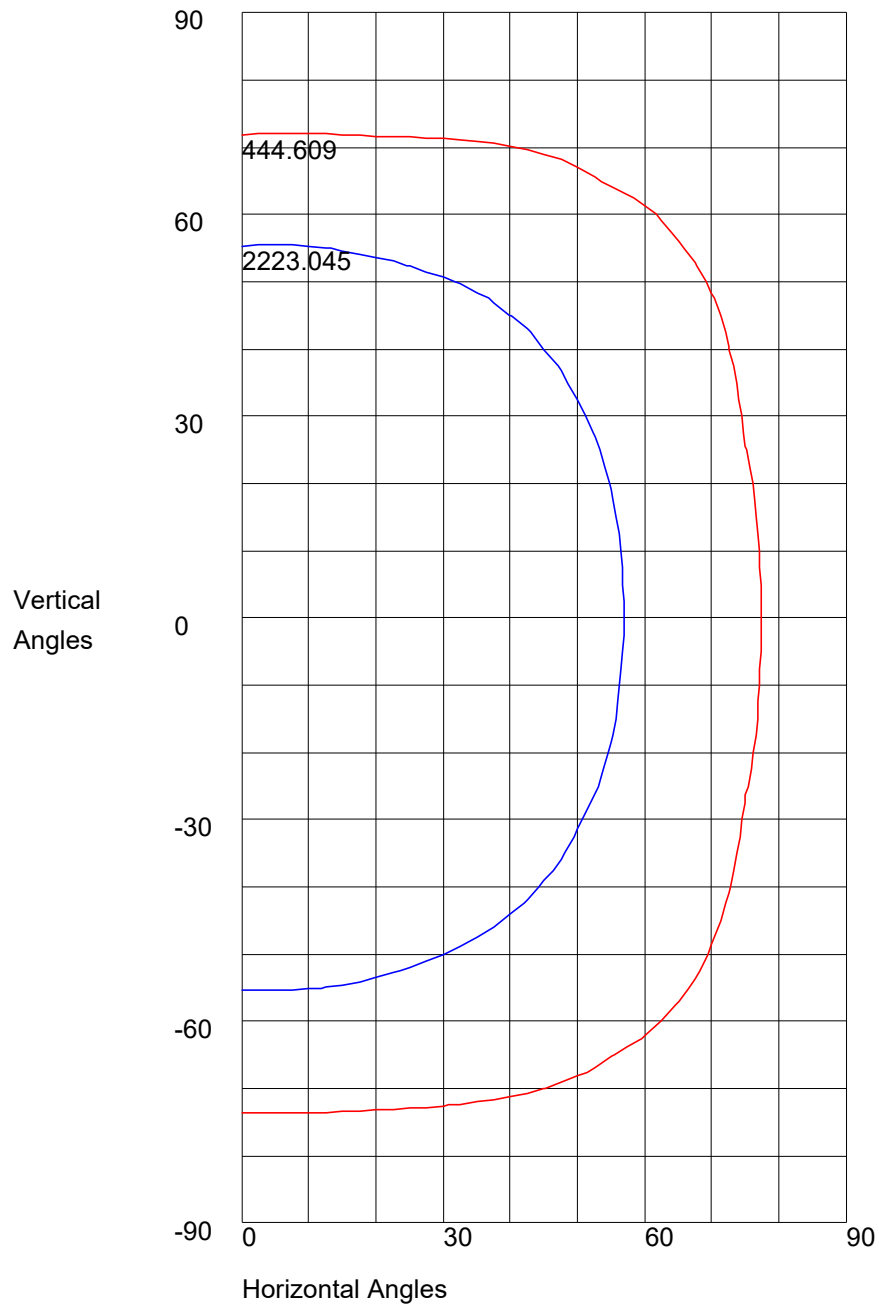


AXIAL CANDELA DISPLAY



Maximum Candela = 4446.09 Located At Horizontal Angle = 3, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 4446.09 Located At Horizontal Angle = 3, Vertical Angle = 0  
50% Maximum Candela = 2223.045  
10% Maximum Candela = 444.609