



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : FLK HI 77 UV 8SEL [5000K].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 [5000K]  
[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	3718.421
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	10159.99 (1 lamp)
Total Lamp Lumens	10159.99
Beam Lumens	7947
Beam Efficiency	78 %
Field Lumens	10041
Field Efficiency	99 %
Spill Lumens	126
Luminaire Lumens	10166
Total Efficiency	100 %
Total Luminaire Watts	72.7
Ballast Factor	1.00

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**AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	.042	90	.039
85	14.697	85	6.785
75	448.559	75	86.022
65	1268.768	65	943.26
55	1965.873	55	1930.812
47.5	2407.732	47.5	2417.904
42.5	2669.099	42.5	2689.507
37.5	2892.092	37.5	2928.413
33	3078.975	33	3111.187
29	3219.285	29	3251.412
25.5	3338.465	25.5	3354.012
22.5	3417.734	22.5	3437.982
19.5	3492.557	19.5	3509.434
17	3555.587	17	3555.757
15	3592.669	15	3590.128
13	3622.818	13	3621.956
11	3632.027	11	3645.884
9	3650.414	9	3666.163
7	3675.596	7	3687.177
5	3698.673	5	3698.588
3	3716.379	3	3713.497
1	3718.421	1	3716.411
0	3717.815	0	3717.815
-1	3707.265	-1	3709.924
-3	3698.524	-3	3701.491
-5	3684.646	-5	3690.686
-7	3676.883	-7	3674.809
-9	3664.441	-9	3653.636
-11	3661.048	-11	3624.796
-13	3633.909	-13	3595.349
-15	3597.721	-15	3558.15
-17	3554.375	-17	3521.249
-19.5	3499.985	-19.5	3463.18
-22.5	3433.983	-22.5	3393.711
-25.5	3361.042	-25.5	3316.819
-29	3269.788	-29	3207.13
-33	3134.391	-33	3075.848
-37.5	2955.196	-37.5	2888.343
-42.5	2729.784	-42.5	2654.993
-47.5	2472.113	-47.5	2398.821
-55	2027.17	-55	1944.296
-65	1328.554	-65	1145.792
-75	466.648	-75	276.781
-85	13.346	-85	21.769
-90	.036	-90	.046

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**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 5083.13

Total Field Lumens (one side of beam only) = 5020.37

\* 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	0.14	0.29	0.30	0.31	0.31	0.31	0.31	0.30	0.29	0.34
65	1.57 *	3.17 *	3.18 *	3.17 *	3.15 *	3.12 *	3.07 *	3.00 *	2.92 *	3.52 *
55	4.38 *	8.79 *	8.77 *	8.71 *	8.63 *	8.52 *	8.39 *	8.24 *	8.06 *	9.74 *
47.5	4.97 *	9.94 *	9.91 *	9.83 *	9.74 *	9.63 *	9.50 *	9.34 *	9.14 *	11.10 *
42.5	3.89 *	7.77 *	7.75 *	7.71 *	7.64 *	7.56 *	7.46 *	7.33 *	7.18 *	8.74 *
37.5	4.28 *	8.55 *	8.53 *	8.48 *	8.41 *	8.32 *	8.21 *	8.07 *	7.91 *	9.64 *
33	4.14 *	8.27 *	8.25 *	8.21 *	8.14 *	8.05 *	7.94 *	7.81 *	7.66 *	9.34 *
29	3.88 *	7.75 *	7.73 *	7.68 *	7.62 *	7.54 *	7.44 *	7.32 *	7.18 *	8.76 *
25.5	3.52 *	7.04 *	7.02 *	6.98 *	6.93 *	6.85 *	6.76 *	6.66 *	6.53 *	7.97 *
22.5	3.10 *	6.20 *	6.19 *	6.16 *	6.11 *	6.04 *	5.96 *	5.87 *	5.76 *	7.03 *
19.5	3.17 *	6.34 *	6.33 *	6.29 *	6.24 *	6.18 *	6.10 *	6.00 *	5.89 *	7.19 *
17	2.69 *	5.38 *	5.36 *	5.34 *	5.29 *	5.24 *	5.17 *	5.09 *	5.00 *	6.09 *
15	2.18 *	4.35 *	4.34 *	4.32 *	4.29 *	4.24 *	4.19 *	4.12 *	4.05 *	4.93 *
13	2.20 *	4.39 *	4.39 *	4.36 *	4.33 *	4.28 *	4.23 *	4.16 *	4.08 *	4.98 *
11	2.21 *	4.43 *	4.42 *	4.40 *	4.36 *	4.31 *	4.26 *	4.19 *	4.11 *	5.02 *
9	2.23 *	4.46 *	4.45 *	4.42 *	4.39 *	4.34 *	4.28 *	4.22 *	4.14 *	5.05 *
7	2.24 *	4.48 *	4.47 *	4.45 *	4.41 *	4.36 *	4.30 *	4.24 *	4.16 *	5.07 *
5	2.25 *	4.50 *	4.49 *	4.47 *	4.43 *	4.38 *	4.32 *	4.25 *	4.17 *	5.09 *
3	2.26 *	4.52 *	4.50 *	4.47 *	4.44 *	4.39 *	4.33 *	4.26 *	4.18 *	5.10 *
1	2.26 *	4.52 *	4.50 *	4.47 *	4.43 *	4.39 *	4.34 *	4.27 *	4.19 *	5.10 *
0	1.13 *	2.26 *	2.25 *	2.23 *	2.21 *	2.19 *	2.17 *	2.14 *	2.09 *	2.55 *
-1	1.13 *	2.26 *	2.25 *	2.23 *	2.21 *	2.19 *	2.17 *	2.13 *	2.09 *	2.55 *
-3	2.26 *	4.52 *	4.50 *	4.47 *	4.43 *	4.38 *	4.33 *	4.26 *	4.18 *	5.09 *
	2.25 *	4.50 *	4.49 *	4.46 *	4.42 *	4.37 *	4.32 *	4.25 *	4.17 *	5.08 *

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LUMENS TABULATION - (Cont.)

-5	2.24 *	4.49 *	4.47 *	4.44 *	4.40 *	4.36 *	4.30 *	4.23 *	4.15 *	5.06 *
-7	2.23 *	4.46 *	4.45 *	4.42 *	4.38 *	4.33 *	4.28 *	4.21 *	4.13 *	5.04 *
-9	2.22 *	4.43 *	4.42 *	4.39 *	4.35 *	4.31 *	4.25 *	4.18 *	4.11 *	5.01 *
-11	2.20 *	4.40 *	4.39 *	4.37 *	4.33 *	4.28 *	4.22 *	4.15 *	4.07 *	4.97 *
-13	2.18 *	4.36 *	4.35 *	4.33 *	4.29 *	4.24 *	4.18 *	4.11 *	4.04 *	4.92 *
-15	2.16 *	4.31 *	4.30 *	4.28 *	4.25 *	4.20 *	4.14 *	4.07 *	3.99 *	4.87 *
-17	2.66 *	5.32 *	5.31 *	5.28 *	5.24 *	5.18 *	5.11 *	5.02 *	4.93 *	6.01 *
-19.5	3.13 *	6.27 *	6.26 *	6.22 *	6.18 *	6.11 *	6.02 *	5.92 *	5.81 *	7.08 *
-22.5	3.07 *	6.13 *	6.12 *	6.08 *	6.04 *	5.97 *	5.89 *	5.79 *	5.68 *	6.93 *
-25.5	3.48 *	6.95 *	6.93 *	6.90 *	6.84 *	6.77 *	6.68 *	6.57 *	6.44 *	7.85 *
-29	3.83 *	7.65 *	7.63 *	7.59 *	7.53 *	7.45 *	7.34 *	7.22 *	7.08 *	8.63 *
-33	4.09 *	8.17 *	8.14 *	8.10 *	8.04 *	7.95 *	7.84 *	7.72 *	7.57 *	9.22 *
-37.5	4.22 *	8.44 *	8.42 *	8.38 *	8.31 *	8.22 *	8.12 *	7.99 *	7.83 *	9.54 *
-42.5	3.85 *	7.70 *	7.68 *	7.64 *	7.58 *	7.50 *	7.40 *	7.28 *	7.14 *	8.69 *
-47.5	4.96 *	9.93 *	9.90 *	9.84 *	9.76 *	9.65 *	9.52 *	9.36 *	9.17 *	11.15 *
-55	4.71 *	9.44 *	9.42 *	9.37 *	9.30 *	9.19 *	9.06 *	8.90 *	8.70 *	10.55 *
-65	2.17 *	4.37 *	4.38 *	4.36 *	4.33 *	4.28 *	4.22 *	4.14 *	4.04 *	4.87 *
-75	0.46	0.92	0.93	0.93	0.92	0.91	0.90	0.88	0.85	1.03
-85	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
-90	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
<b>Total</b>	118.23	236.48	235.91	234.60	232.67	230.14	227.05	223.33	218.93	266.56

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>
90	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
85	0.38	0.39	0.48	0.54	0.53	0.44	0.34	0.40	0.29	0.10
75	4.03 *	3.83 *	4.19 *	4.39 *	4.35 *	4.00	3.09	3.06	1.84	0.45
65	11.11 *	10.46 *	11.43 *	11.98 *	12.02 *	11.26 *	8.87 *	9.16 *	5.87 *	1.49
55	12.74 *	12.08 *	13.27 *	13.95 *	14.04 *	13.31 *	10.80 *	11.68 *	8.00 *	2.22
47.5	10.11 *	9.65 *	10.59 *	11.15 *	11.22 *	10.74 *	8.88 *	9.80 *	7.00 *	2.08 *

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**LUMENS TABULATION - (Cont.)**

<b>42.5</b>	11.15 *	10.65 *	11.71 *	12.36 *	12.47 *	11.98 *	9.95 *	11.10 *	8.15 *	2.55 *
<b>37.5</b>	10.81 *	10.33 *	11.37 *	12.02 *	12.16 *	11.71 *	9.76 *	10.98 *	8.21 *	2.66 *
<b>33</b>	10.15 *	9.70 *	10.69 *	11.30 *	11.46 *	11.06 *	9.25 *	10.44 *	7.90 *	2.64 *
<b>29</b>	9.24 *	8.84 *	9.74 *	10.31 *	10.46 *	10.12 *	8.48 *	9.60 *	7.34 *	2.50 *
<b>25.5</b>	8.15 *	7.80 *	8.60 *	9.10 *	9.25 *	8.96 *	7.51 *	8.52 *	6.58 *	2.28 *
<b>22.5</b>	8.33 *	7.97 *	8.80 *	9.32 *	9.47 *	9.19 *	7.71 *	8.76 *	6.81 *	2.39 *
<b>19.5</b>	7.07 *	6.76 *	7.46 *	7.91 *	8.04 *	7.80 *	6.55 *	7.46 *	5.83 *	2.06 *
<b>17</b>	5.72 *	5.48 *	6.04 *	6.41 *	6.51 *	6.32 *	5.31 *	6.06 *	4.75 *	1.69 *
<b>15</b>	5.77 *	5.53 *	6.10 *	6.47 *	6.58 *	6.39 *	5.37 *	6.13 *	4.81 *	1.72 *
<b>13</b>	5.82 *	5.57 *	6.15 *	6.52 *	6.63 *	6.44 *	5.42 *	6.19 *	4.87 *	1.75 *
<b>11</b>	5.86 *	5.61 *	6.19 *	6.56 *	6.67 *	6.48 *	5.46 *	6.24 *	4.91 *	1.77 *
<b>9</b>	5.88 *	5.63 *	6.21 *	6.59 *	6.71 *	6.51 *	5.49 *	6.28 *	4.95 *	1.79 *
<b>7</b>	5.90 *	5.65 *	6.23 *	6.61 *	6.73 *	6.54 *	5.51 *	6.31 *	4.98 *	1.81 *
<b>5</b>	5.91 *	5.66 *	6.25 *	6.63 *	6.74 *	6.55 *	5.53 *	6.33 *	5.00 *	1.82 *
<b>3</b>	5.91 *	5.66 *	6.25 *	6.63 *	6.75 *	6.56 *	5.53 *	6.34 *	5.01 *	1.83 *
<b>1</b>	2.95 *	2.83 *	3.13 *	3.32 *	3.38 *	3.28 *	2.77 *	3.17 *	2.51 *	0.91 *
<b>0</b>	2.95 *	2.83 *	3.12 *	3.32 *	3.37 *	3.28 *	2.77 *	3.17 *	2.51 *	0.91 *
<b>-1</b>	5.90 *	5.65 *	6.24 *	6.62 *	6.74 *	6.55 *	5.53 *	6.34 *	5.01 *	1.83 *
<b>-3</b>	5.89 *	5.64 *	6.23 *	6.61 *	6.73 *	6.54 *	5.52 *	6.32 *	5.00 *	1.82 *
<b>-5</b>	5.87 *	5.62 *	6.21 *	6.58 *	6.70 *	6.52 *	5.50 *	6.30 *	4.98 *	1.81 *
<b>-7</b>	5.84 *	5.60 *	6.18 *	6.55 *	6.67 *	6.49 *	5.47 *	6.26 *	4.95 *	1.80 *
<b>-9</b>	5.81 *	5.56 *	6.14 *	6.51 *	6.63 *	6.45 *	5.44 *	6.22 *	4.91 *	1.78 *
<b>-11</b>	5.76 *	5.52 *	6.09 *	6.46 *	6.58 *	6.40 *	5.40 *	6.17 *	4.87 *	1.76 *
<b>-13</b>	5.71 *	5.47 *	6.04 *	6.40 *	6.52 *	6.35 *	5.35 *	6.11 *	4.81 *	1.73 *
<b>-15</b>	5.65 *	5.41 *	5.98 *	6.34 *	6.46 *	6.28 *	5.29 *	6.04 *	4.75 *	1.70 *
<b>-17</b>	6.97 *	6.68 *	7.37 *	7.82 *	7.96 *	7.74 *	6.52 *	7.43 *	5.82 *	2.07 *
<b>-19.5</b>	8.21 *	7.86 *	8.68 *	9.21 *	9.37 *	9.11 *	7.67 *	8.73 *	6.81 *	2.41 *
<b>-22.5</b>	8.02 *	7.68 *	8.47 *	8.98 *	9.14 *	8.88 *	7.47 *	8.49 *	6.57 *	2.30 *

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LUMENS TABULATION - (Cont.)

<b>-25.5</b>	9.10 *	8.70 *	9.59 *	10.16 *	10.34 *	10.03 *	8.42 *	9.56 *	7.33 *	2.53 *
<b>-29</b>	10.00 *	9.55 *	10.52 *	11.14 *	11.32 *	10.96 *	9.19 *	10.41 *	7.91 *	2.69 *
<b>-33</b>	10.66 *	10.18 *	11.21 *	11.85 *	12.02 *	11.61 *	9.71 *	10.96 *	8.24 *	2.74 *
<b>-37.5</b>	11.03 *	10.53 *	11.57 *	12.21 *	12.35 *	11.90 *	9.91 *	11.11 *	8.21 *	2.63 *
<b>-42.5</b>	10.04 *	9.57 *	10.51 *	11.06 *	11.15 *	10.70 *	8.87 *	9.88 *	7.13 *	2.17 *
<b>-47.5</b>	12.87 *	12.25 *	13.43 *	14.09 *	14.15 *	13.49 *	11.11 *	12.13 *	8.42 *	2.41
<b>-55</b>	12.12 *	11.51 *	12.60 *	13.18 *	13.13 *	12.37 *	9.94 *	10.34 *	6.73 *	1.78
<b>-65</b>	5.57 *	5.27 *	5.75 *	5.97 *	5.85 *	5.38 *	4.14 *	4.06	2.47	0.61
<b>-75</b>	1.17	1.11	1.20	1.22	1.16	1.02	0.77	0.75	0.44	0.13
<b>-85</b>	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.03	0.01
<b>-90</b>										
<b>Total</b>	308.21	294.29	324.06	342.40	346.56	333.77	277.59	310.84	233.49	78.18

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		6.80
<b>75</b>	0.05	0.00		63.16
<b>65</b>	0.13	0.00		176.02
<b>55</b>	0.21	0.00		205.40
<b>47.5</b>	0.22	0.00		164.48
<b>42.5</b>	0.29	0.00		182.74
<b>37.5</b>	0.31	0.00		178.13
<b>33</b>	0.32	0.00		167.82
<b>29</b>	0.31	0.00		153.19
<b>25.5</b>	0.29	0.00		135.45
<b>22.5</b>	0.30	0.00		138.78
<b>19.5</b>	0.27	0.00		117.85
<b>17</b>	0.22	0.00		95.54
<b>15</b>	0.23	0.00		96.49

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**LUMENS TABULATION - (Cont.)**

<b>13</b>	0.23	0.00	97.30
<b>11</b>	0.24	0.00	97.95
<b>9</b>	0.24	0.00	98.47
<b>7</b>	0.25	0.00	98.87
<b>5</b>	0.25	0.00	99.11
<b>3</b>	0.25	0.00	99.20
<b>1</b>	0.12	0.00	49.59
<b>0</b>	0.12	0.00	49.58
<b>-1</b>	0.25	0.00	99.08
<b>-3</b>	0.25	0.00	98.86
<b>-5</b>	0.25	0.00	98.49
<b>-7</b>	0.24	0.00	97.99
<b>-9</b>	0.24	0.00	97.37
<b>-11</b>	0.24	0.00	96.63
<b>-13</b>	0.23	0.00	95.73
<b>-15</b>	0.23	0.00	94.70
<b>-17</b>	0.27	0.00	116.73
<b>-19.5</b>	0.31	0.00	137.37
<b>-22.5</b>	0.30	0.00	134.02
<b>-25.5</b>	0.33	0.00	151.50
<b>-29</b>	0.34	0.00	165.99
<b>-33</b>	0.34	0.00	176.36
<b>-37.5</b>	0.32	0.00	181.24
<b>-42.5</b>	0.25	0.00	163.77
<b>-47.5</b>	0.25	0.00	207.85
<b>-55</b>	0.16	0.00	192.52
<b>-65</b>	0.06	0.00	86.29
<b>-75</b>	0.03	0.00	17.73

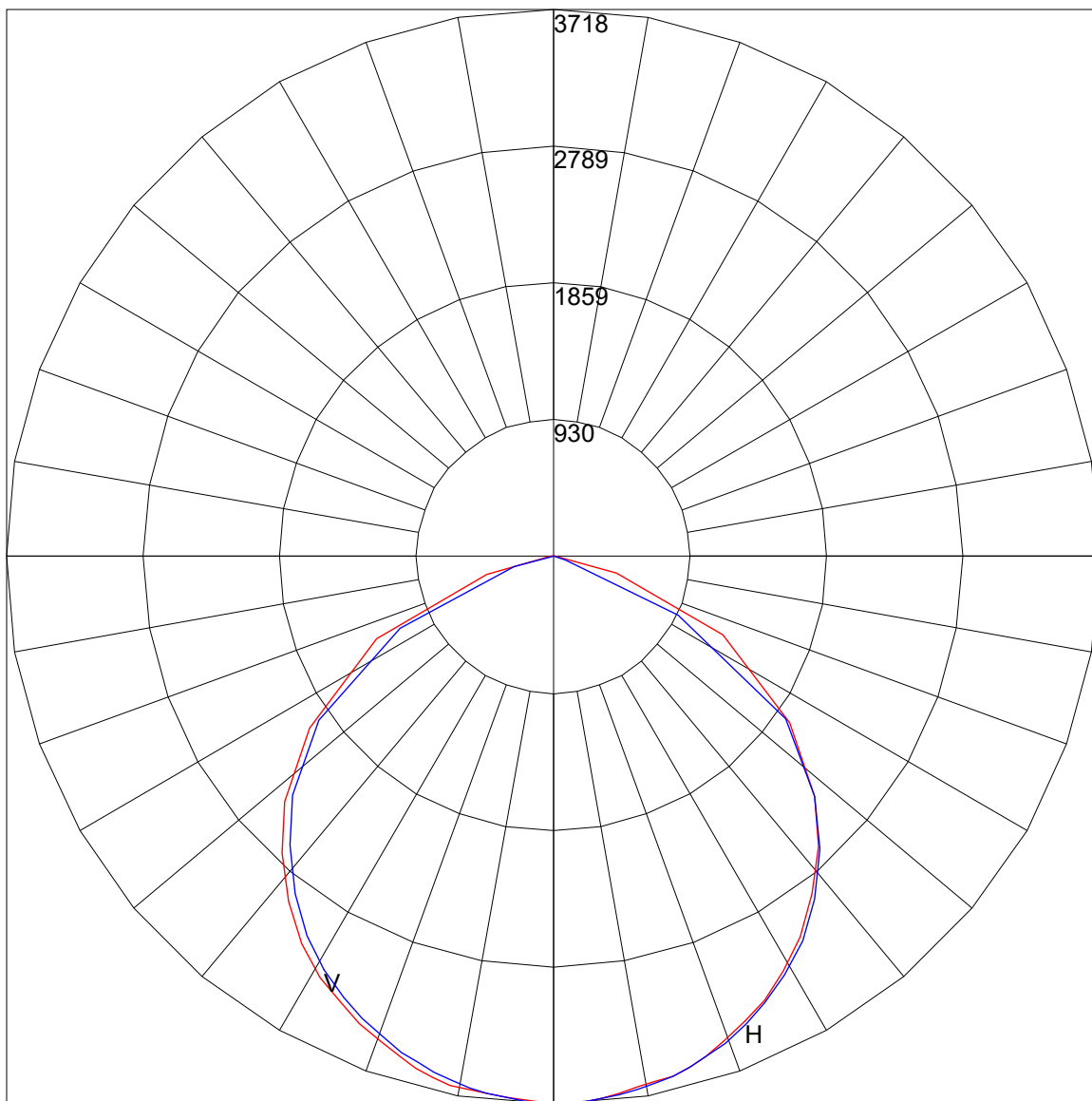
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**LUMENS TABULATION - (Cont.)**

<b>-85</b>	0.00	0.00	0.68
<b>-90</b>			
<b>Total</b>	9.78	0.05	5083.13

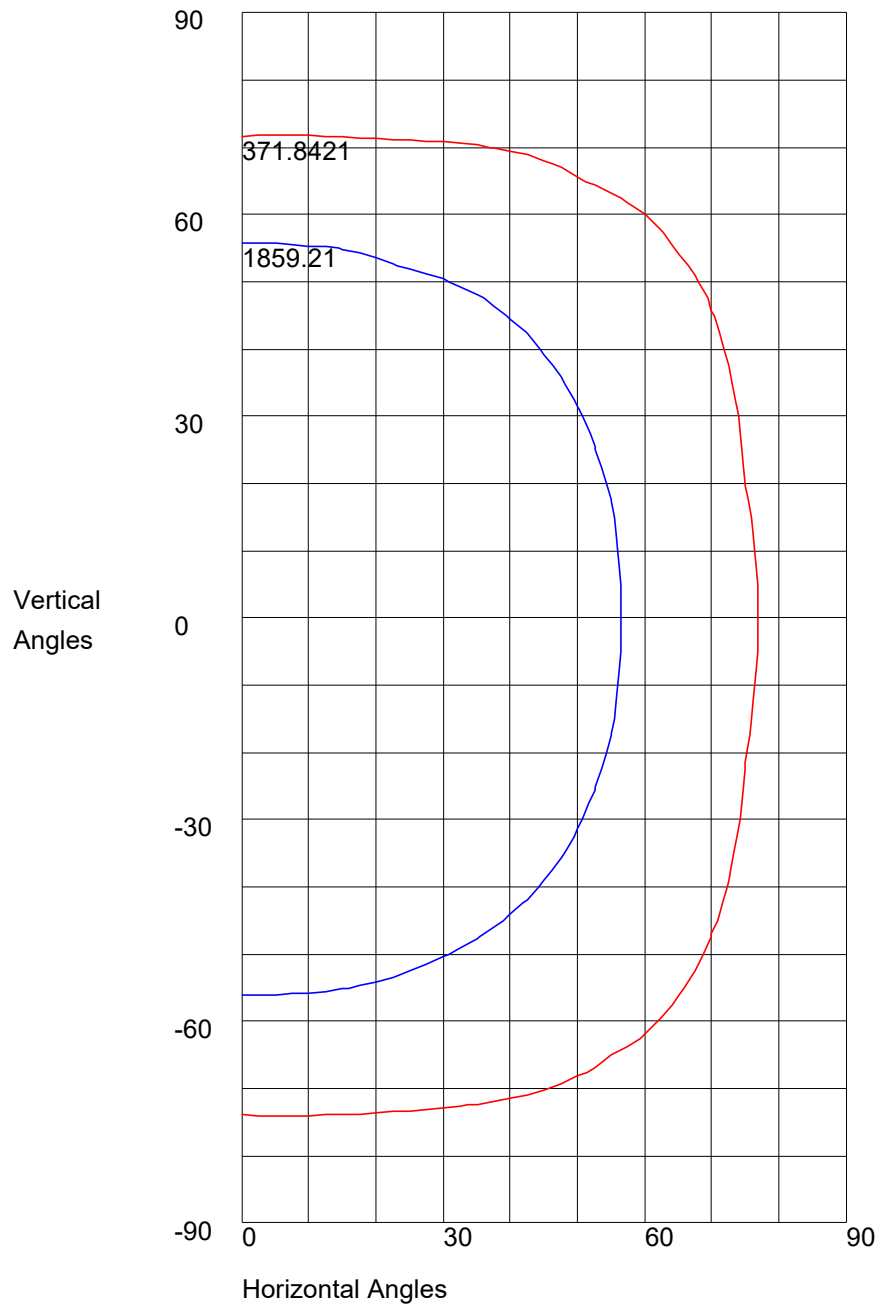


AXIAL CANDELA DISPLAY



Maximum Candela = 3718.421 Located At Horizontal Angle = 1, Vertical Angle = 0  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 3718.421 Located At Horizontal Angle = 1, Vertical Angle = 0  
50% Maximum Candela = 1859.2105  
10% Maximum Candela = 371.8421