



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [210W, 5000K].IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] BLC2112016E-J  
[ISSUEDATE] 2021-12-15 14:37  
[MANUFAC] LumenFocus, LLC.  
[LUMCAT] PFK SEL290 76 UV 8SEL [210W, 5000K]  
[LUMINAIRE]  
[LAMPCAT]  
[LAMP]  
[ \_VOLTAGE] 120.0 V  
[ \_CURRENT] 2.435 A  
[ \_POWERFACTOR] 0.998  
[ \_THD] 2.33  
[TESTLAB] UTEST TECHNICAL LABORATORY  
[ \_TESTINST] GPM-3000  
[ \_TESTDIST] 14.140 m [K=1.0000]  
[ \_TESTTEMPERATURE] 25.8 °C  
[ \_TESTHUMIDITY]  
[ \_TESTOPERATOR]  
[BALLAST]  
[BALLASTCAT]

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

### CHARACTERISTICS

NEMA Type	7 H x 6 V
Maximum Candela	13424.495
Maximum Candela Angle	1H 1V
Horizontal Beam Angle (50%)	105.5
Vertical Beam Angle (50%)	85.9
Horizontal Field Angle (10%)	144.4
Vertical Field Angle (10%)	120.0
Lumens Per Lamp	28365.25 (1 lamp)
Total Lamp Lumens	28365.25
Beam Lumens	22203
Beam Efficiency	78 %
Field Lumens	27436
Field Efficiency	97 %
Spill Lumens	1025
Luminaire Lumens	28461
Total Efficiency	100 %
Total Luminaire Watts	211.2
Ballast Factor	1.00

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DEG.	HOR.	DEG.	VERT.
90	.083	90	0
85	26.835	85	11.461
75	820.479	75	184.047
65	2901.617	65	706.436
55	6034.562	55	1964.388
47.5	8250.49	47.5	4331.74
42.5	9818.504	42.5	6635.562
37.5	10729.524	37.5	8648.912
33	11409.659	33	10074.491
29	11909.358	29	11109.365
25.5	12257.441	25.5	11812.239
22.5	12528.107	22.5	12269.253
19.5	12749.117	19.5	12625.885
17	12917.677	17	12865.228
15	13033.972	15	13010.547
13	13143.167	13	13126.426
11	13217.811	11	13212.875
9	13277.032	9	13286.936
7	13323.611	7	13351.062
5	13357.227	5	13384.534
3	13388.999	3	13404.979
1	13418.303	1	13419.851
0	13418.303	0	13418.303
-1	13406.889	-1	13410.243
-3	13352.602	-3	13384.838
-5	13318.06	-5	13341.766
-7	13269.325	-7	13282.288
-9	13198.993	-9	13218.458
-11	13117.257	-11	13158.342
-13	13039.523	-13	13067.253
-15	12938.035	-15	12976.467
-17	12824.839	-17	12862.137
-19.5	12645.473	-19.5	12695.29
-22.5	12372.494	-22.5	12430.526
-25.5	12099.515	-25.5	12063.826
-29	11716.262	-29	11534.772
-33	11227.673	-33	10683.017
-37.5	10560.488	-37.5	9272.318
-42.5	9658.261	-42.5	7131.003
-47.5	8526.088	-47.5	4720.895
-55	6013.589	-55	1998.172
-65	2730.11	-65	672.053
-75	752.623	-75	182.186
-85	29.926	-85	22.003
-90	0	-90	0

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**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 14230.45

Total Field Lumens (one side of beam only) = 13717.93

\* 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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
75	0.30	0.60	0.60	0.59	0.58	0.57	0.55	0.54	0.52	0.62
65	1.36	2.72	2.72	2.69	2.65	2.60	2.54	2.46	2.38	2.84
55	4.08	8.22 *	8.23 *	8.17 *	8.08	7.93	7.75	7.52	7.26	8.70
47.5	7.22 *	14.55 *	14.61 *	14.55 *	14.40 *	14.16 *	13.85 *	13.44 *	12.96 *	15.65 *
42.5	8.38 *	16.85 *	16.90 *	16.83 *	16.66 *	16.39 *	16.06 *	15.61 *	15.08 *	18.21 *
37.5	11.66 *	23.40 *	23.40 *	23.29 *	23.03 *	22.65 *	22.22 *	21.69 *	21.12 *	25.59 *
33	12.85 *	25.74 *	25.70 *	25.56 *	25.31 *	24.92 *	24.45 *	23.97 *	23.49 *	28.57 *
29	12.92 *	25.85 *	25.79 *	25.63 *	25.38 *	25.04 *	24.62 *	24.20 *	23.74 *	28.90 *
25.5	12.22 *	24.44 *	24.36 *	24.21 *	23.97 *	23.67 *	23.32 *	22.94 *	22.51 *	27.43 *
22.5	11.01 *	21.99 *	21.92 *	21.78 *	21.58 *	21.32 *	21.03 *	20.70 *	20.31 *	24.77 *
19.5	11.38 *	22.73 *	22.65 *	22.51 *	22.31 *	22.06 *	21.77 *	21.43 *	21.04 *	25.67 *
17	9.71 *	19.39 *	19.32 *	19.20 *	19.03 *	18.83 *	18.59 *	18.30 *	17.97 *	21.93 *
15	7.88 *	15.74 *	15.68 *	15.58 *	15.46 *	15.30 *	15.10 *	14.88 *	14.60 *	17.80 *
13	7.96 *	15.90 *	15.84 *	15.75 *	15.62 *	15.46 *	15.27 *	15.03 *	14.75 *	17.99 *
11	8.02 *	16.03 *	15.97 *	15.88 *	15.76 *	15.60 *	15.39 *	15.15 *	14.87 *	18.14 *
9	8.07 *	16.12 *	16.07 *	15.99 *	15.86 *	15.70 *	15.49 *	15.24 *	14.96 *	18.26 *
7	8.11 *	16.20 *	16.15 *	16.06 *	15.94 *	15.77 *	15.56 *	15.31 *	15.03 *	18.35 *
5	8.14 *	16.26 *	16.21 *	16.13 *	15.99 *	15.82 *	15.61 *	15.36 *	15.08 *	18.41 *
3	8.16 *	16.30 *	16.25 *	16.16 *	16.02 *	15.85 *	15.64 *	15.40 *	15.12 *	18.46 *
1	8.17 *	16.32 *	16.26 *	16.16 *	16.03 *	15.86 *	15.65 *	15.41 *	15.14 *	18.48 *
0	4.09 *	8.16 *	8.12 *	8.07 *	8.01 *	7.92 *	7.83 *	7.71 *	7.57 *	9.25 *
-1	4.09 *	8.16 *	8.12 *	8.07 *	8.01 *	7.92 *	7.83 *	7.71 *	7.57 *	9.25 *
-3	8.16 *	16.31 *	16.26 *	16.16 *	16.03 *	15.86 *	15.65 *	15.42 *	15.14 *	18.49 *
	8.14 *	16.28 *	16.22 *	16.13 *	16.01 *	15.84 *	15.64 *	15.40 *	15.12 *	18.46 *

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**LUMENS TABULATION - (Cont.)**

<b>-5</b>	8.11 *	16.22 *	16.17 *	16.07 *	15.95 *	15.79 *	15.59 *	15.36 *	15.08 *	18.42 *
<b>-7</b>	8.08 *	16.15 *	16.11 *	16.00 *	15.87 *	15.70 *	15.51 *	15.28 *	15.02 *	18.34 *
<b>-9</b>	8.04 *	16.07 *	16.02 *	15.92 *	15.78 *	15.61 *	15.41 *	15.18 *	14.92 *	18.23 *
<b>-11</b>	7.99 *	15.97 *	15.92 *	15.83 *	15.69 *	15.51 *	15.30 *	15.07 *	14.81 *	18.09 *
<b>-13</b>	7.93 *	15.85 *	15.80 *	15.71 *	15.57 *	15.39 *	15.18 *	14.94 *	14.68 *	17.93 *
<b>-15</b>	7.87 *	15.72 *	15.67 *	15.58 *	15.44 *	15.26 *	15.05 *	14.81 *	14.54 *	17.75 *
<b>-17</b>	9.73 *	19.44 *	19.36 *	19.25 *	19.08 *	18.86 *	18.60 *	18.29 *	17.95 *	21.91 *
<b>-19.5</b>	11.48 *	22.93 *	22.84 *	22.70 *	22.51 *	22.25 *	21.93 *	21.57 *	21.16 *	25.80 *
<b>-22.5</b>	11.19 *	22.36 *	22.29 *	22.15 *	21.96 *	21.71 *	21.40 *	21.04 *	20.62 *	25.13 *
<b>-25.5</b>	12.58 *	25.15 *	25.07 *	24.93 *	24.71 *	24.42 *	24.06 *	23.64 *	23.16 *	28.20 *
<b>-29</b>	13.54 *	27.09 *	27.01 *	26.85 *	26.62 *	26.28 *	25.86 *	25.38 *	24.83 *	30.19 *
<b>-33</b>	13.69 *	27.41 *	27.36 *	27.22 *	26.97 *	26.58 *	26.09 *	25.54 *	24.96 *	30.31 *
<b>-37.5</b>	12.51 *	25.11 *	25.13 *	25.02 *	24.77 *	24.38 *	23.89 *	23.27 *	22.62 *	27.45 *
<b>-42.5</b>	9.05 *	18.23 *	18.30 *	18.25 *	18.08 *	17.80 *	17.42 *	16.89 *	16.28 *	19.69 *
<b>-47.5</b>	7.71 *	15.58 *	15.69 *	15.67 *	15.56 *	15.34 *	15.00 *	14.53 *	13.95 *	16.82 *
<b>-55</b>	4.08	8.26 *	8.31 *	8.29 *	8.23 *	8.11 *	7.94	7.70	7.41	8.89
<b>-65</b>	1.30	2.61	2.61	2.58	2.55	2.51	2.45	2.38	2.31	2.76
<b>-75</b>	0.31	0.62	0.62	0.62	0.61	0.60	0.59	0.57	0.55	0.66
<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>	347.31	695.10	693.68	689.84	683.69	675.20	664.72	652.31	638.25	776.83

**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>	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.01
<b>85</b>	0.70	0.66	0.70	0.72	0.70	0.64	0.53	0.60	0.43	0.15
<b>75</b>	3.22	3.04	3.28	3.34	3.21	2.89	2.41	2.81	1.96	0.58
<b>65</b>	10.05	9.67	10.60	10.87	10.27	9.30	7.83	8.83	6.05	1.74
<b>55</b>	18.18 *	17.41 *	18.95 *	19.21 *	18.09 *	16.36 *	13.16 *	14.02	9.38	2.68
<b>47.5</b>	21.00 *	19.92 *	21.58 *	22.00 *	20.85 *	18.62 *	14.42 *	14.69 *	9.51	2.68

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**LUMENS TABULATION - (Cont.)**

<b>42.5</b>	29.43 *	27.85 *	30.19 *	31.02 *	29.82 *	26.66 *	20.30 *	20.22 *	12.69 *	3.50
<b>37.5</b>	32.94 *	31.26 *	34.02 *	35.12 *	34.20 *	31.05 *	23.77 *	23.46 *	14.44 *	3.91
<b>33</b>	33.40 *	31.81 *	34.74 *	36.11 *	35.59 *	32.82 *	25.49 *	25.16 *	15.29 *	4.12
<b>29</b>	31.76 *	30.29 *	33.14 *	34.64 *	34.52 *	32.24 *	25.37 *	25.17 *	15.21 *	4.10
<b>25.5</b>	28.69 *	27.37 *	30.02 *	31.53 *	31.62 *	29.95 *	23.79 *	23.58 *	14.32 *	3.88
<b>22.5</b>	29.72 *	28.37 *	31.20 *	32.89 *	33.18 *	31.67 *	25.23 *	25.15 *	15.44 *	4.19 *
<b>19.5</b>	25.38 *	24.25 *	26.71 *	28.26 *	28.61 *	27.31 *	21.84 *	22.04 *	13.67 *	3.72 *
<b>17</b>	20.62 *	19.72 *	21.76 *	23.07 *	23.37 *	22.32 *	17.94 *	18.24 *	11.41 *	3.11 *
<b>15</b>	20.84 *	19.95 *	22.04 *	23.38 *	23.68 *	22.68 *	18.31 *	18.73 *	11.78 *	3.22 *
<b>13</b>	21.03 *	20.14 *	22.26 *	23.61 *	23.93 *	22.97 *	18.62 *	19.16 *	12.13 *	3.33 *
<b>11</b>	21.17 *	20.29 *	22.42 *	23.79 *	24.13 *	23.20 *	18.87 *	19.54 *	12.43 *	3.42 *
<b>9</b>	21.28 *	20.39 *	22.54 *	23.92 *	24.30 *	23.40 *	19.09 *	19.86 *	12.71 *	3.51 *
<b>7</b>	21.36 *	20.47 *	22.63 *	24.02 *	24.42 *	23.55 *	19.26 *	20.12 *	12.95 *	3.59 *
<b>5</b>	21.42 *	20.52 *	22.69 *	24.10 *	24.50 *	23.66 *	19.38 *	20.35 *	13.18 *	3.66 *
<b>3</b>	21.44 *	20.55 *	22.73 *	24.14 *	24.56 *	23.73 *	19.46 *	20.50 *	13.34 *	3.71 *
<b>1</b>	10.73 *	10.28 *	11.37 *	12.08 *	12.29 *	11.88 *	9.75 *	10.29 *	6.71 *	1.87 *
<b>0</b>	10.73 *	10.28 *	11.37 *	12.08 *	12.29 *	11.89 *	9.76 *	10.29 *	6.71 *	1.87 *
<b>-1</b>	21.45 *	20.55 *	22.73 *	24.14 *	24.56 *	23.75 *	19.49 *	20.54 *	13.37 *	3.72 *
<b>-3</b>	21.42 *	20.52 *	22.69 *	24.10 *	24.52 *	23.69 *	19.42 *	20.42 *	13.24 *	3.67 *
<b>-5</b>	21.37 *	20.47 *	22.63 *	24.03 *	24.44 *	23.61 *	19.32 *	20.23 *	13.04 *	3.61 *
<b>-7</b>	21.29 *	20.40 *	22.55 *	23.94 *	24.33 *	23.47 *	19.18 *	20.00 *	12.83 *	3.53 *
<b>-9</b>	21.17 *	20.29 *	22.43 *	23.80 *	24.17 *	23.29 *	19.00 *	19.72 *	12.58 *	3.45 *
<b>-11</b>	21.01 *	20.15 *	22.27 *	23.63 *	23.98 *	23.09 *	18.78 *	19.39 *	12.30 *	3.36 *
<b>-13</b>	20.82 *	19.97 *	22.07 *	23.42 *	23.76 *	22.83 *	18.51 *	19.00 *	11.98 *	3.26 *
<b>-15</b>	20.61 *	19.76 *	21.83 *	23.15 *	23.48 *	22.51 *	18.17 *	18.55 *	11.62 *	3.16 *
<b>-17</b>	25.42 *	24.35 *	26.87 *	28.47 *	28.85 *	27.61 *	22.18 *	22.47 *	13.96 *	3.78 *
<b>-19.5</b>	29.90 *	28.61 *	31.55 *	33.32 *	33.65 *	32.15 *	25.71 *	25.77 *	15.84 *	4.27 *
<b>-22.5</b>	29.10 *	27.82 *	30.59 *	32.19 *	32.32 *	30.59 *	24.34 *	24.28 *	14.76 *	3.96

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**LUMENS TABULATION - (Cont.)**

<b>-25.5</b>	32.64 *	31.15 *	34.16 *	35.76 *	35.63 *	33.21 *	26.13 *	26.05 *	15.76 *	4.20
<b>-29</b>	34.85 *	33.19 *	36.33 *	37.79 *	37.14 *	34.13 *	26.50 *	26.27 *	15.96 *	4.25
<b>-33</b>	34.91 *	33.08 *	36.04 *	37.25 *	36.11 *	32.59 *	24.94 *	24.72 *	15.21 *	4.07
<b>-37.5</b>	31.62 *	29.89 *	32.34 *	33.19 *	31.80 *	28.26 *	21.45 *	21.45 *	13.47 *	3.66
<b>-42.5</b>	22.79 *	21.60 *	23.27 *	23.68 *	22.43 *	19.91 *	15.33 *	15.63 *	10.09	2.80
<b>-47.5</b>	19.58 *	18.71 *	20.21 *	20.53 *	19.45 *	17.53 *	13.98 *	14.87 *	9.95	2.81
<b>-55</b>	10.34	10.01	10.95	11.25	10.77	9.87	8.26	9.34	6.47	1.84
<b>-65</b>	3.17	3.03	3.31	3.43	3.34	3.01	2.53	2.99	2.11	0.64
<b>-75</b>	0.75	0.70	0.76	0.79	0.77	0.71	0.57	0.65	0.49	0.19
<b>-85</b>	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.02
<b>-90</b>										
<b>Total</b>	899.37	858.78	942.58	987.82	983.70	924.70	738.42	755.20	476.85	130.79

<b>Vert. Angles</b>	<b>Horizontal Angles</b>			
	<b><u>75</u></b>	<b><u>85</u></b>	<b><u>90</u></b>	<b><u>Total</u></b>
<b>90</b>	0.00	0.00		0.45
<b>85</b>	0.03	0.00		11.31
<b>75</b>	0.08	0.00		51.78
<b>65</b>	0.21	0.00		161.36
<b>55</b>	0.32	0.00		283.14
<b>47.5</b>	0.32	0.00		322.55
<b>42.5</b>	0.41	0.00		450.16
<b>37.5</b>	0.46	0.00		505.18
<b>33</b>	0.48	0.00		517.07
<b>29</b>	0.48	0.00		496.01
<b>25.5</b>	0.45	0.00		451.59
<b>22.5</b>	0.48	0.00		471.08
<b>19.5</b>	0.43	0.00		404.49
<b>17</b>	0.36	0.00		329.94
<b>15</b>	0.37	0.00		334.57

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**LUMENS TABULATION - (Cont.)**

<b>13</b>	0.38	0.00	338.36
<b>11</b>	0.39	0.00	341.42
<b>9</b>	0.40	0.00	343.89
<b>7</b>	0.41	0.00	345.81
<b>5</b>	0.42	0.00	347.23
<b>3</b>	0.43	0.00	348.09
<b>1</b>	0.21	0.00	174.19
<b>0</b>	0.21	0.00	174.20
<b>-1</b>	0.43	0.00	348.20
<b>-3</b>	0.42	0.00	347.37
<b>-5</b>	0.42	0.00	345.93
<b>-7</b>	0.41	0.00	343.98
<b>-9</b>	0.40	0.00	341.48
<b>-11</b>	0.39	0.00	338.52
<b>-13</b>	0.37	0.00	335.01
<b>-15</b>	0.36	0.00	330.89
<b>-17</b>	0.43	0.00	406.86
<b>-19.5</b>	0.49	0.00	476.44
<b>-22.5</b>	0.45	0.00	460.28
<b>-25.5</b>	0.48	0.00	511.09
<b>-29</b>	0.49	0.00	540.53
<b>-33</b>	0.47	0.00	535.52
<b>-37.5</b>	0.42	0.00	481.71
<b>-42.5</b>	0.32	0.00	347.86
<b>-47.5</b>	0.33	0.00	303.78
<b>-55</b>	0.22	0.00	166.54
<b>-65</b>	0.09	0.00	51.71
<b>-75</b>	0.04	0.00	12.17

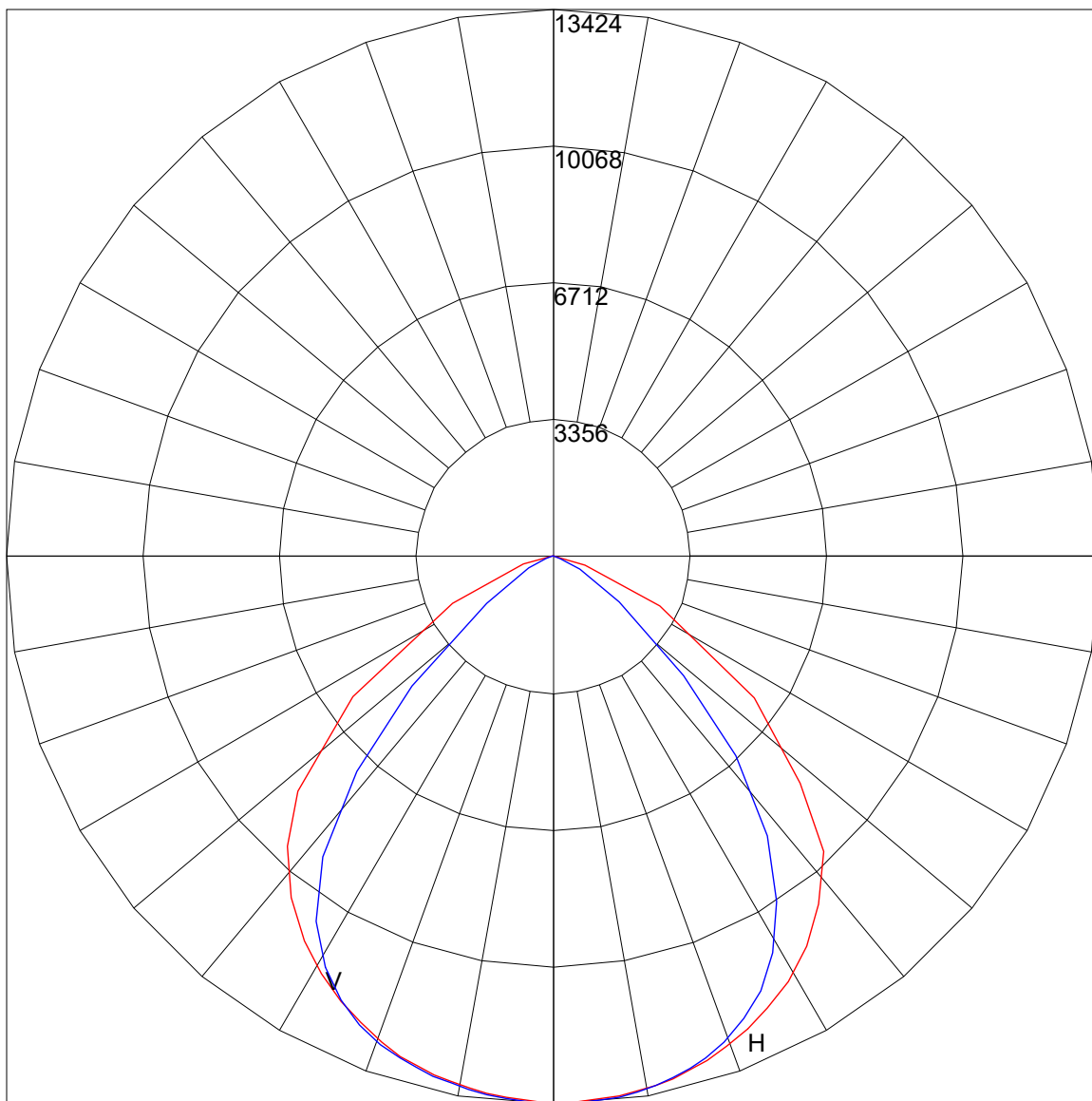
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LUMENS TABULATION - (Cont.)

-85	0.00	0.00	0.70
-90			
Total	15.18	0.09	14230.44

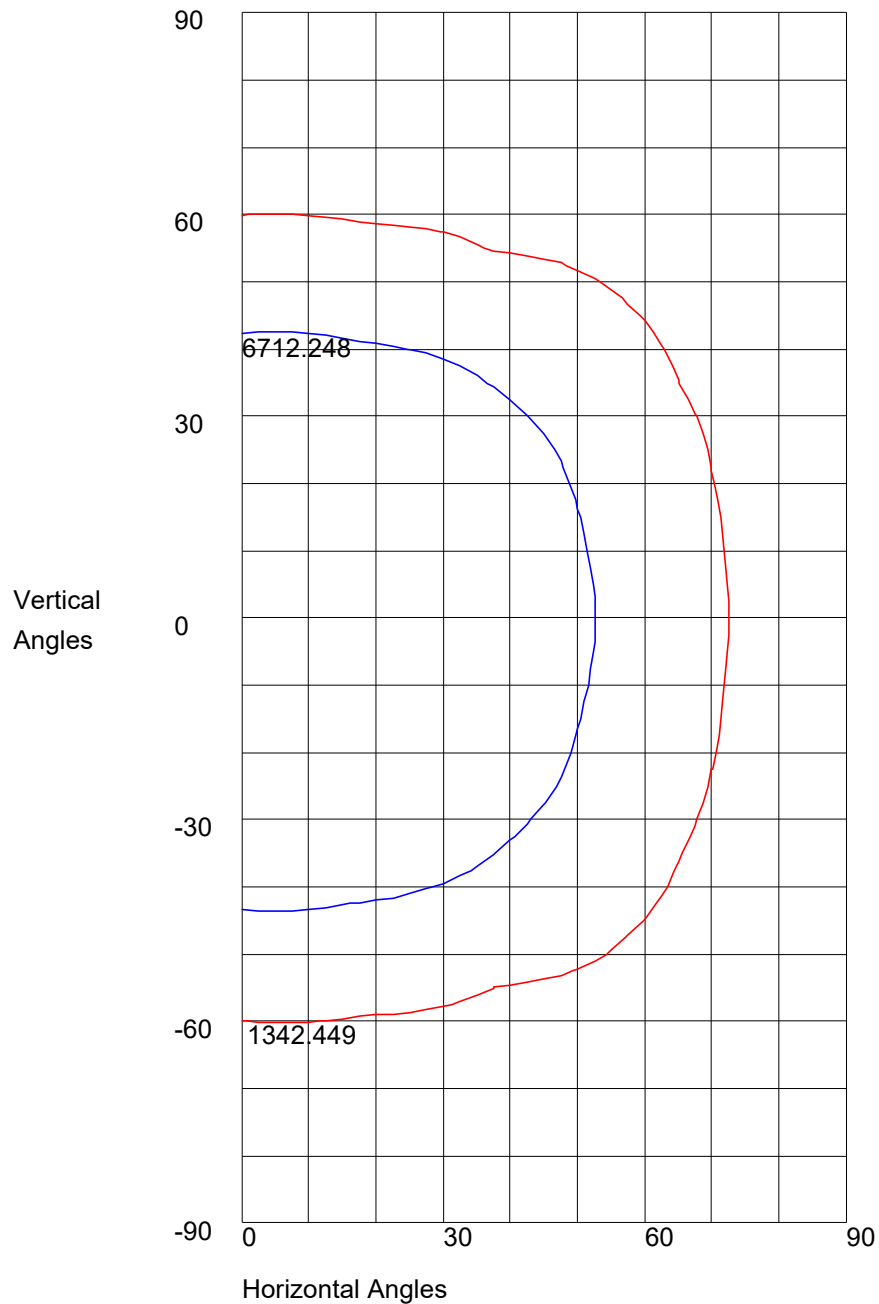


AXIAL CANDELA DISPLAY



Maximum Candela = 13424.495 Located At Horizontal Angle = 1, Vertical Angle = 1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 13424.495 Located At Horizontal Angle = 1, Vertical Angle = 1  
50% Maximum Candela = 6712.2475  
10% Maximum Candela = 1342.4495