



## IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [290W, 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 [290W, 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	18257.169
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	38576.43 (1 lamp)
Total Lamp Lumens	38576.43
Beam Lumens	30196
Beam Efficiency	78 %
Field Lumens	37312
Field Efficiency	97 %
Spill Lumens	1394
Luminaire Lumens	38706
Total Efficiency	100 %
Total Luminaire Watts	291.7
Ballast Factor	1.00

**IES FLOOD REPORT****PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [290W, 5000K].IES****AXIAL CANDELA**

DEG.	HOR.	DEG.	VERT.
90	.113	90	0
85	36.496	85	15.587
75	1115.842	75	250.301
65	3946.168	65	960.745
55	8206.94	55	2671.547
47.5	11220.577	47.5	5891.12
42.5	13353.06	42.5	9024.292
37.5	14592.037	37.5	11762.428
33	15517.014	33	13701.199
29	16196.599	29	15108.618
25.5	16669.988	25.5	16064.519
22.5	17038.092	22.5	16686.053
19.5	17338.662	19.5	17171.068
17	17567.902	17	17496.572
15	17726.062	15	17694.204
13	17874.567	13	17851.799
11	17976.081	11	17969.368
9	18056.622	9	18070.091
7	18119.968	7	18157.301
5	18165.686	5	18202.823
3	18208.895	3	18230.628
1	18248.748	1	18250.854
0	18248.748	0	18248.748
-1	18233.225	-1	18237.786
-3	18159.396	-3	18203.237
-5	18112.418	-5	18144.659
-7	18046.14	-7	18063.769
-9	17950.489	-9	17976.961
-11	17839.329	-11	17895.204
-13	17733.611	-13	17771.323
-15	17595.589	-15	17647.856
-17	17441.643	-17	17492.368
-19.5	17197.707	-19.5	17265.458
-22.5	16826.459	-22.5	16905.381
-25.5	16455.21	-25.5	16406.674
-29	15933.991	-29	15687.166
-33	15269.515	-33	14528.788
-37.5	14362.151	-37.5	12610.253
-42.5	13135.132	-42.5	9698.088
-47.5	11595.389	-47.5	6420.366
-55	8178.417	-55	2717.493
-65	3712.92	-65	913.985
-75	1023.559	-75	247.771
-85	40.7	-85	29.925
-90	0	-90	0

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**LUMEN TABULATION**

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 19353.24

Total Field Lumens (one side of beam only) = 18656.25

\* 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	0.03	0.03	0.03	0.03	0.02	0.02	0.03
75	0.41	0.81	0.81	0.80	0.79	0.77	0.75	0.73	0.71	0.84
65	1.85	3.70	3.69	3.66	3.61	3.54	3.45	3.35	3.23	3.86
55	5.55	11.17 *	11.19 *	11.10 *	10.98	10.79	10.54	10.23	9.87	11.83
47.5	9.81 *	19.79 *	19.87 *	19.78 *	19.58 *	19.26 *	18.83 *	18.28 *	17.63 *	21.28 *
42.5	11.39 *	22.92 *	22.98 *	22.89 *	22.65 *	22.29 *	21.84 *	21.23 *	20.51 *	24.77 *
37.5	15.86 *	31.82 *	31.82 *	31.67 *	31.33 *	30.81 *	30.22 *	29.50 *	28.72 *	34.81 *
33	17.47 *	35.00 *	34.95 *	34.76 *	34.42 *	33.89 *	33.25 *	32.60 *	31.94 *	38.86 *
29	17.57 *	35.16 *	35.07 *	34.85 *	34.52 *	34.05 *	33.48 *	32.91 *	32.28 *	39.30 *
25.5	16.63 *	33.24 *	33.14 *	32.92 *	32.60 *	32.19 *	31.72 *	31.20 *	30.61 *	37.31 *
22.5	14.97 *	29.91 *	29.81 *	29.62 *	29.34 *	28.99 *	28.60 *	28.15 *	27.62 *	33.69 *
19.5	15.47 *	30.91 *	30.81 *	30.61 *	30.34 *	30.00 *	29.61 *	29.15 *	28.62 *	34.92 *
17	13.20 *	26.37 *	26.27 *	26.11 *	25.88 *	25.61 *	25.28 *	24.89 *	24.44 *	29.82 *
15	10.72 *	21.41 *	21.33 *	21.19 *	21.02 *	20.80 *	20.54 *	20.23 *	19.86 *	24.21 *
13	10.83 *	21.63 *	21.54 *	21.42 *	21.24 *	21.03 *	20.76 *	20.45 *	20.07 *	24.46 *
11	10.91 *	21.80 *	21.72 *	21.60 *	21.43 *	21.21 *	20.94 *	20.60 *	20.22 *	24.67 *
9	10.98 *	21.93 *	21.86 *	21.74 *	21.57 *	21.35 *	21.07 *	20.73 *	20.35 *	24.83 *
7	11.03 *	22.03 *	21.96 *	21.85 *	21.68 *	21.45 *	21.16 *	20.82 *	20.44 *	24.95 *
5	11.07 *	22.12 *	22.05 *	21.93 *	21.75 *	21.51 *	21.23 *	20.89 *	20.51 *	25.04 *
3	11.10 *	22.17 *	22.10 *	21.98 *	21.79 *	21.55 *	21.27 *	20.94 *	20.56 *	25.10 *
1	11.11 *	22.20 *	22.12 *	21.98 *	21.80 *	21.56 *	21.29 *	20.96 *	20.59 *	25.14 *
0	5.56 *	11.09 *	11.05 *	10.98 *	10.89 *	10.78 *	10.64 *	10.48 *	10.30 *	12.57 *
-1	5.56 *	11.10 *	11.05 *	10.98 *	10.89 *	10.78 *	10.64 *	10.48 *	10.30 *	12.57 *
-3	11.10 *	22.18 *	22.11 *	21.98 *	21.80 *	21.56 *	21.29 *	20.96 *	20.59 *	25.14 *
	11.08 *	22.14 *	22.06 *	21.94 *	21.77 *	21.55 *	21.27 *	20.94 *	20.57 *	25.11 *

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LUMENS TABULATION - (Cont.)

-5	11.03 *	22.07 *	21.99 *	21.86 *	21.69 *	21.47 *	21.21 *	20.88 *	20.51 *	25.05 *
-7	10.98 *	21.97 *	21.90 *	21.77 *	21.58 *	21.36 *	21.10 *	20.78 *	20.42 *	24.95 *
-9	10.93 *	21.85 *	21.79 *	21.66 *	21.46 *	21.23 *	20.96 *	20.65 *	20.29 *	24.79 *
-11	10.87 *	21.72 *	21.65 *	21.53 *	21.33 *	21.09 *	20.81 *	20.49 *	20.14 *	24.61 *
-13	10.79 *	21.56 *	21.49 *	21.37 *	21.18 *	20.94 *	20.64 *	20.32 *	19.97 *	24.39 *
-15	10.70 *	21.38 *	21.31 *	21.18 *	21.00 *	20.76 *	20.47 *	20.14 *	19.77 *	24.15 *
-17	13.23 *	26.43 *	26.34 *	26.18 *	25.95 *	25.65 *	25.29 *	24.88 *	24.41 *	29.79 *
-19.5	15.61 *	31.18 *	31.07 *	30.87 *	30.61 *	30.26 *	29.83 *	29.33 *	28.77 *	35.09 *
-22.5	15.22 *	30.41 *	30.31 *	30.13 *	29.87 *	29.53 *	29.10 *	28.61 *	28.05 *	34.17 *
-25.5	17.11 *	34.21 *	34.10 *	33.90 *	33.60 *	33.21 *	32.73 *	32.15 *	31.50 *	38.35 *
-29	18.42 *	36.84 *	36.73 *	36.52 *	36.20 *	35.75 *	35.17 *	34.51 *	33.77 *	41.05 *
-33	18.62 *	37.28 *	37.21 *	37.02 *	36.68 *	36.15 *	35.49 *	34.74 *	33.94 *	41.22 *
-37.5	17.02 *	34.16 *	34.17 *	34.03 *	33.69 *	33.15 *	32.49 *	31.65 *	30.76 *	37.33 *
-42.5	12.31 *	24.79 *	24.89 *	24.82 *	24.59 *	24.21 *	23.70 *	22.98 *	22.14 *	26.78 *
-47.5	10.48 *	21.18 *	21.33 *	21.32 *	21.16 *	20.86 *	20.39 *	19.76 *	18.98 *	22.87 *
-55	5.55	11.23 *	11.30 *	11.27 *	11.19 *	11.03 *	10.79	10.47	10.08	12.09
-65	1.77	3.55	3.55	3.51	3.47	3.41	3.33	3.24	3.13	3.76
-75	0.42	0.85	0.85	0.84	0.83	0.82	0.80	0.77	0.75	0.90
-85	0.02	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.05
-90	0.02	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.05
Total	472.34	945.34	943.40	938.18	929.82	918.26	904.02	887.14	868.01	1056.49

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	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.02
85	0.95	0.89	0.96	0.98	0.95	0.87	0.72	0.81	0.58	0.20
75	4.38	4.14	4.47	4.55	4.36	3.93	3.27	3.82	2.67	0.79
65	13.67	13.16	14.41	14.78	13.97	12.65	10.65	12.01	8.23	2.37
55	24.72 *	23.68 *	25.77 *	26.13 *	24.60 *	22.25 *	17.90 *	19.07	12.75	3.65
47.5	28.56 *	27.09 *	29.35 *	29.91 *	28.36 *	25.33 *	19.60 *	19.97 *	12.94	3.65

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**LUMENS TABULATION - (Cont.)**

<b>42.5</b>	40.03 *	37.88 *	41.06 *	42.19 *	40.56 *	36.26 *	27.61 *	27.50 *	17.26 *	4.77
<b>37.5</b>	44.80 *	42.52 *	46.26 *	47.76 *	46.51 *	42.23 *	32.33 *	31.91 *	19.64 *	5.32
<b>33</b>	45.42 *	43.25 *	47.24 *	49.11 *	48.41 *	44.64 *	34.66 *	34.21 *	20.79 *	5.61
<b>29</b>	43.20 *	41.20 *	45.07 *	47.12 *	46.95 *	43.85 *	34.50 *	34.23 *	20.69 *	5.58
<b>25.5</b>	39.02 *	37.22 *	40.82 *	42.88 *	43.01 *	40.73 *	32.35 *	32.07 *	19.47 *	5.27
<b>22.5</b>	40.42 *	38.58 *	42.43 *	44.73 *	45.13 *	43.07 *	34.31 *	34.20 *	21.00 *	5.70 *
<b>19.5</b>	34.52 *	32.98 *	36.33 *	38.43 *	38.91 *	37.14 *	29.70 *	29.97 *	18.60 *	5.06 *
<b>17</b>	28.04 *	26.82 *	29.59 *	31.37 *	31.78 *	30.35 *	24.39 *	24.81 *	15.51 *	4.23 *
<b>15</b>	28.35 *	27.14 *	29.98 *	31.79 *	32.21 *	30.84 *	24.90 *	25.47 *	16.02 *	4.39 *
<b>13</b>	28.60 *	27.39 *	30.27 *	32.10 *	32.54 *	31.24 *	25.33 *	26.06 *	16.49 *	4.53 *
<b>11</b>	28.79 *	27.59 *	30.49 *	32.35 *	32.82 *	31.55 *	25.67 *	26.57 *	16.91 *	4.65 *
<b>9</b>	28.95 *	27.73 *	30.65 *	32.54 *	33.05 *	31.82 *	25.96 *	27.01 *	17.29 *	4.77 *
<b>7</b>	29.05 *	27.84 *	30.77 *	32.67 *	33.21 *	32.03 *	26.19 *	27.37 *	17.61 *	4.88 *
<b>5</b>	29.13 *	27.91 *	30.86 *	32.77 *	33.32 *	32.17 *	26.36 *	27.67 *	17.92 *	4.97 *
<b>3</b>	29.16 *	27.95 *	30.91 *	32.83 *	33.40 *	32.28 *	26.47 *	27.88 *	18.15 *	5.04 *
<b>1</b>	14.59 *	13.98 *	15.46 *	16.43 *	16.71 *	16.16 *	13.26 *	13.99 *	9.13 *	2.54 *
<b>0</b>	14.59 *	13.98 *	15.46 *	16.43 *	16.71 *	16.16 *	13.27 *	14.00 *	9.13 *	2.54 *
<b>-1</b>	29.17 *	27.95 *	30.91 *	32.83 *	33.41 *	32.30 *	26.50 *	27.93 *	18.19 *	5.05 *
<b>-3</b>	29.13 *	27.91 *	30.86 *	32.78 *	33.34 *	32.22 *	26.42 *	27.77 *	18.00 *	4.99 *
<b>-5</b>	29.06 *	27.84 *	30.78 *	32.68 *	33.24 *	32.10 *	26.28 *	27.51 *	17.74 *	4.91 *
<b>-7</b>	28.95 *	27.74 *	30.66 *	32.55 *	33.09 *	31.92 *	26.08 *	27.20 *	17.45 *	4.81 *
<b>-9</b>	28.79 *	27.59 *	30.50 *	32.37 *	32.87 *	31.68 *	25.83 *	26.82 *	17.11 *	4.70 *
<b>-11</b>	28.57 *	27.40 *	30.29 *	32.13 *	32.61 *	31.41 *	25.54 *	26.37 *	16.73 *	4.58 *
<b>-13</b>	28.32 *	27.16 *	30.02 *	31.85 *	32.31 *	31.05 *	25.17 *	25.84 *	16.29 *	4.44 *
<b>-15</b>	28.03 *	26.87 *	29.68 *	31.48 *	31.94 *	30.61 *	24.71 *	25.23 *	15.80 *	4.29 *
<b>-17</b>	34.57 *	33.11 *	36.55 *	38.71 *	39.23 *	37.55 *	30.17 *	30.56 *	18.98 *	5.14 *
<b>-19.5</b>	40.66 *	38.91 *	42.91 *	45.32 *	45.77 *	43.72 *	34.97 *	35.05 *	21.55 *	5.81 *
<b>-22.5</b>	39.58 *	37.83 *	41.61 *	43.78 *	43.96 *	41.61 *	33.10 *	33.03 *	20.08 *	5.38

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**LUMENS TABULATION - (Cont.)**

<b>-25.5</b>	44.38 *	42.36 *	46.46 *	48.64 *	48.45 *	45.17 *	35.54 *	35.42 *	21.43 *	5.71
<b>-29</b>	47.40 *	45.13 *	49.40 *	51.39 *	50.51 *	46.41 *	36.04 *	35.73 *	21.71 *	5.77
<b>-33</b>	47.48 *	44.98 *	49.01 *	50.66 *	49.11 *	44.33 *	33.91 *	33.62 *	20.69 *	5.53
<b>-37.5</b>	43.00 *	40.65 *	43.99 *	45.14 *	43.25 *	38.44 *	29.18 *	29.17 *	18.32 *	4.97
<b>-42.5</b>	30.99 *	29.37 *	31.65 *	32.20 *	30.51 *	27.08 *	20.85 *	21.25 *	13.72	3.81
<b>-47.5</b>	26.62 *	25.44 *	27.49 *	27.92 *	26.45 *	23.84 *	19.02 *	20.22 *	13.53	3.82
<b>-55</b>	14.07	13.62	14.90	15.30	14.64	13.43	11.23	12.71	8.80	2.50
<b>-65</b>	4.31	4.11	4.51	4.67	4.54	4.10	3.44	4.06	2.87	0.86
<b>-75</b>	1.01	0.95	1.04	1.07	1.05	0.96	0.78	0.89	0.66	0.25
<b>-85</b>	0.06	0.05	0.06	0.06	0.06	0.06	0.05	0.06	0.05	0.03
<b>-90</b>										
<b>Total</b>	1223.13	1167.93	1281.9	1343.43	1337.82	1257.58	1004.24	1027.07	648.51	177.87

<b>Vert. Angles</b>	<b>Horizontal Angles</b>		
	<b><u>75</u></b>	<b><u>85</u></b>	<b><u>90</u></b>
<b>90</b>			
	0.00	0.00	0.61
<b>85</b>			
	0.04	0.00	15.38
<b>75</b>			
	0.11	0.00	70.42
<b>65</b>			
	0.29	0.00	219.45
<b>55</b>			
	0.44	0.00	385.07
<b>47.5</b>			
	0.43	0.00	438.67
<b>42.5</b>			
	0.56	0.00	612.22
<b>37.5</b>			
	0.62	0.00	687.05
<b>33</b>			
	0.65	0.00	703.20
<b>29</b>			
	0.65	0.00	674.57
<b>25.5</b>			
	0.61	0.00	614.16
<b>22.5</b>			
	0.66	0.00	640.66
<b>19.5</b>			
	0.58	0.00	550.10
<b>17</b>			
	0.49	0.00	448.72
<b>15</b>			
	0.51	0.00	455.01

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**LUMENS TABULATION - (Cont.)**

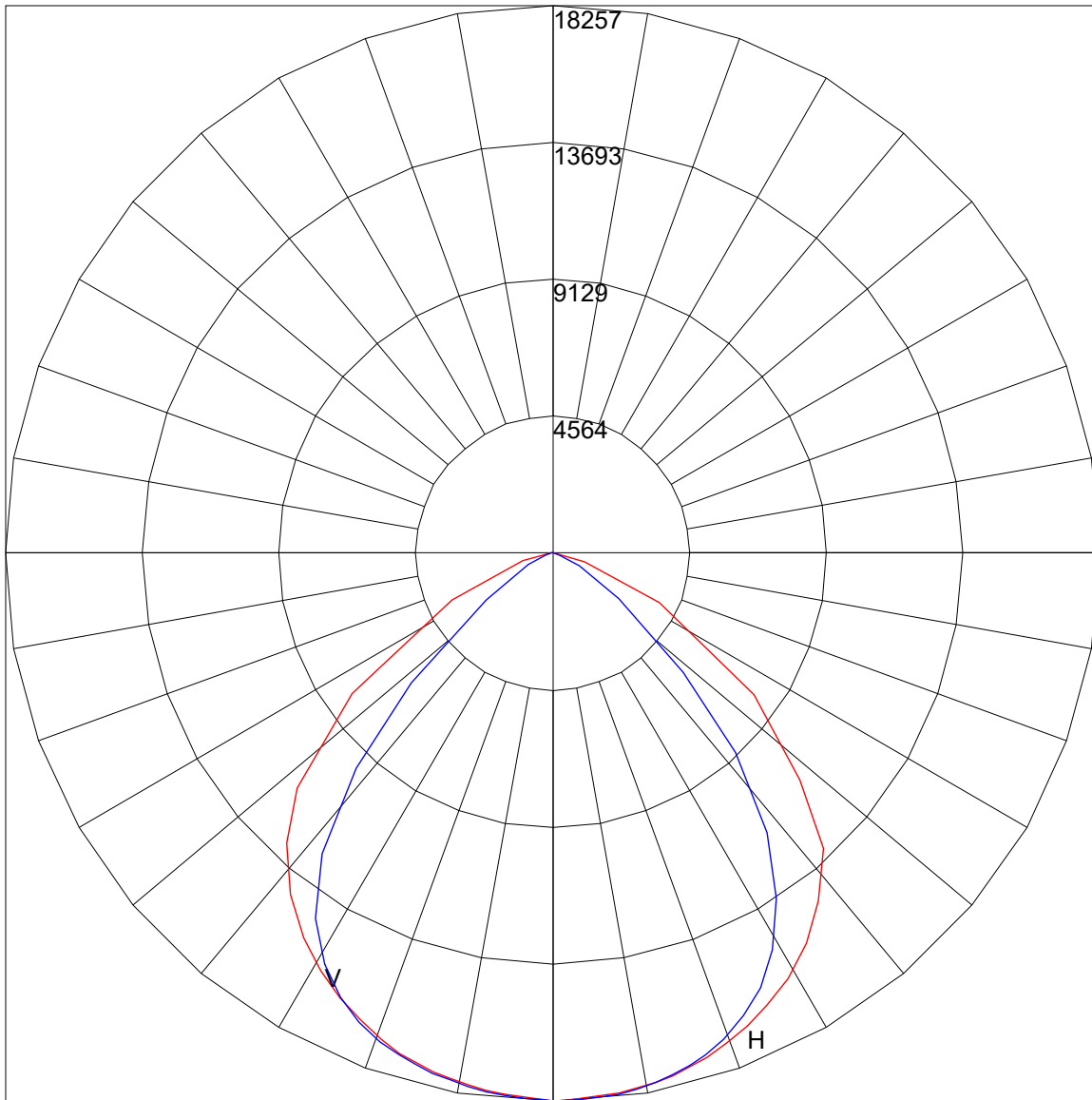
<b>13</b>			
	0.52	0.00	460.17
<b>11</b>			
	0.54	0.00	464.32
<b>9</b>			
	0.55	0.00	467.69
<b>7</b>			
	0.56	0.00	470.29
<b>5</b>			
	0.57	0.00	472.23
<b>3</b>			
	0.58	0.00	473.40
<b>1</b>			
	0.29	0.00	236.89
<b>0</b>			
	0.29	0.00	236.91
<b>-1</b>			
	0.58	0.00	473.54
<b>-3</b>			
	0.58	0.00	472.42
<b>-5</b>			
	0.56	0.00	470.47
<b>-7</b>			
	0.55	0.00	467.80
<b>-9</b>			
	0.54	0.00	464.41
<b>-11</b>			
	0.52	0.00	460.39
<b>-13</b>			
	0.51	0.00	455.61
<b>-15</b>			
	0.49	0.00	450.00
<b>-17</b>			
	0.59	0.00	553.32
<b>-19.5</b>			
	0.67	0.00	647.95
<b>-22.5</b>			
	0.62	0.00	625.97
<b>-25.5</b>			
	0.65	0.00	695.08
<b>-29</b>			
	0.66	0.00	735.11
<b>-33</b>			
	0.63	0.00	728.30
<b>-37.5</b>			
	0.57	0.00	655.13
<b>-42.5</b>			
	0.44	0.00	473.08
<b>-47.5</b>			
	0.45	0.00	413.13
<b>-55</b>			
	0.30	0.00	226.50
<b>-65</b>			
	0.12	0.00	70.33
<b>-75</b>			
	0.05	0.00	16.55

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LUMENS TABULATION - (Cont.)

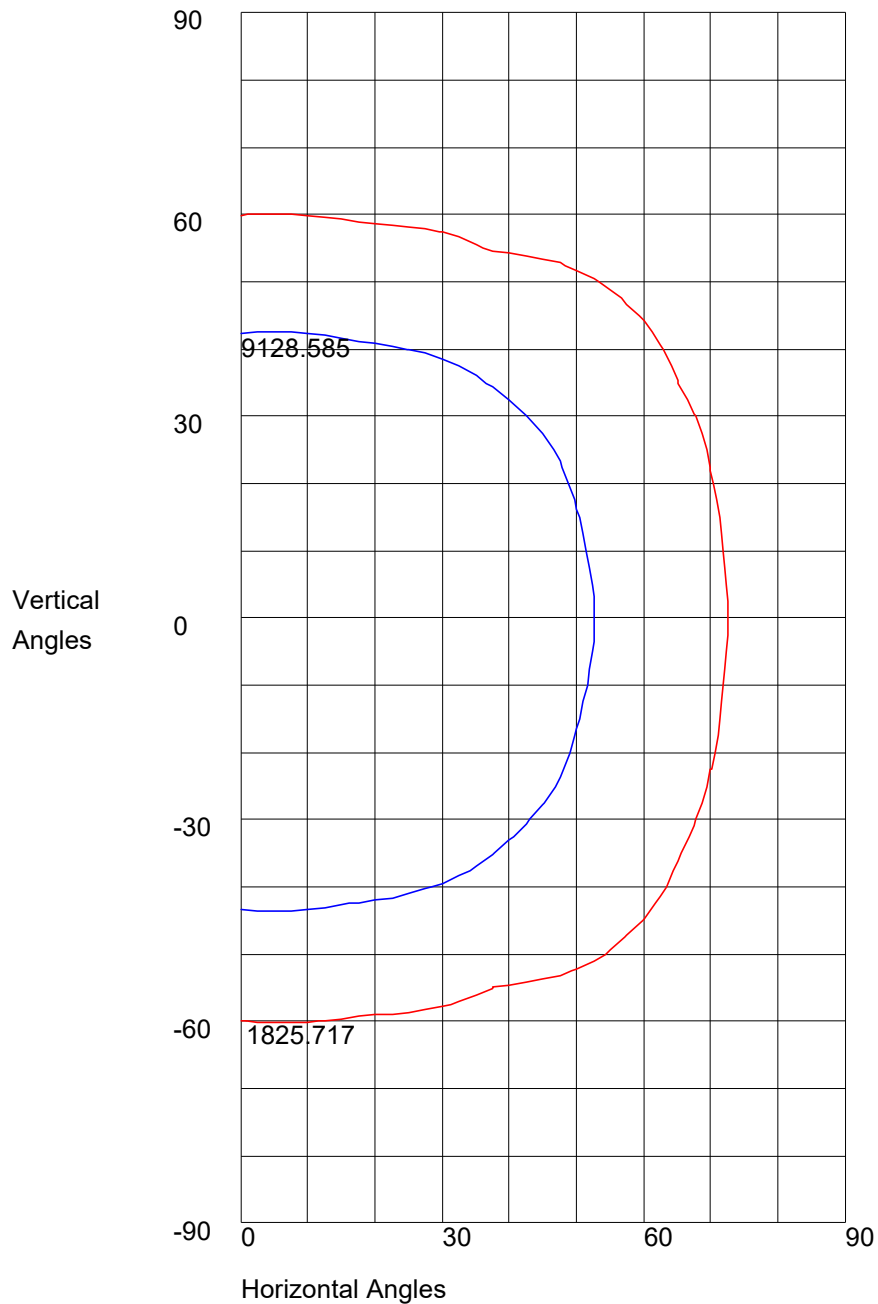
-85	0.01	0.00	0.96
-90			
Total	20.65	0.13	19353.24

AXIAL CANDELA DISPLAY



Maximum Candela = 18257.169 Located At Horizontal Angle = 1, Vertical Angle = 1  
H - Horizontal Axial Candela  
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 18257.169 Located At Horizontal Angle = 1, Vertical Angle = 1  
50% Maximum Candela = 9128.5845  
10% Maximum Candela = 1825.7169