



IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL140 76 UV 8SEL [140W, 5000K].IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] BLC2112016E-I
[ISSUEDATE] 2021-12-15 12:03
[MANUFAC] LumenFocus, LLC.
[LUMCAT] PFK SEL140 76 UV 8SEL [140W, 5000K]
[LUMINAIRE]
[LAMPCAT]
[LAMP]
[_VOLTAGE] 120.0 V
[_CURRENT] 1.168 A
[_POWERFACTOR] 0.997
[_THD] 4.77
[TESTLAB] UTEST TECHNICAL LABORATORY
[_TESTINST] GPM-3000
[_TESTDIST] 14.140 m [K=1.0000]
[_TESTTEMPERATURE] 25.1 '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	8783.774
Maximum Candela Angle	-1H 3V
Horizontal Beam Angle (50%)	108.9
Vertical Beam Angle (50%)	87.2
Horizontal Field Angle (10%)	143.8
Vertical Field Angle (10%)	116.3
Lumens Per Lamp	18872.49 (1 lamp)
Total Lamp Lumens	18872.49
Beam Lumens	15114
Beam Efficiency	80 %
Field Lumens	18295
Field Efficiency	97 %
Spill Lumens	645
Luminaire Lumens	18940
Total Efficiency	100 %
Total Luminaire Watts	139.8
Ballast Factor	1.00

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DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	0	85	0
75	443.281	75	87.397
65	1957.234	65	359.745
55	4411.716	55	1335.501
47.5	5756.768	47.5	3410.423
42.5	6442.583	42.5	5157.035
37.5	7006.047	37.5	6413.574
33	7394.227	33	7245.385
29	7749.728	29	7768.043
25.5	7977.921	25.5	8074.034
22.5	8136.478	22.5	8257.645
19.5	8298.36	19.5	8403.689
17	8429.747	17	8502.689
15	8511.071	15	8567.846
13	8558.189	13	8625.154
11	8607.402	11	8673.835
9	8653.009	9	8718.304
7	8697.851	7	8752.425
5	8743.257	5	8763.912
3	8759.03	3	8771.772
1	8759.03	1	8775.41
0	8770.049	0	8770.049
-1	8773.655	-1	8760.859
-3	8768.911	-3	8737.269
-5	8745.352	-5	8713.508
-7	8708.487	-7	8670.772
-9	8683.971	-9	8610.976
-11	8633.248	-11	8550.02
-13	8584.226	-13	8475.472
-15	8527.791	-15	8384.618
-17	8459.581	-17	8291.659
-19.5	8335.793	-19.5	8167.95
-22.5	8209.724	-22.5	7982.127
-25.5	8052.309	-25.5	7753.291
-29	7812.428	-29	7375.327
-33	7469.275	-33	6767.186
-37.5	7039.487	-37.5	5766.324
-42.5	6476.976	-42.5	4337.683
-47.5	5763.128	-47.5	2705.202
-55	4173.829	-55	966.353
-65	1893.97	-65	304.161
-75	397.301	-75	82.6
-85	0	-85	9.009
-90	0	-90	0

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 9469.88

Total Field Lumens (one side of beam only) = 9147.35

* 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
75	0.13	0.27	0.28	0.28	0.27	0.27	0.27	0.26	0.26	0.31
65	0.68	1.38	1.38	1.37	1.36	1.34	1.32	1.29	1.25	1.51
55	2.60	5.27	5.32	5.31	5.27	5.19	5.07	4.91	4.72	5.63
47.5	5.45 *	11.02 *	11.11 *	11.09 *	11.00 *	10.81 *	10.55 *	10.22 *	9.83 *	11.84 *
42.5	6.54 *	13.17 *	13.21 *	13.18 *	13.05 *	12.84 *	12.57 *	12.23 *	11.84 *	14.34 *
37.5	8.82 *	17.70 *	17.70 *	17.63 *	17.47 *	17.22 *	16.92 *	16.53 *	16.11 *	19.55 *
33	9.37 *	18.76 *	18.73 *	18.64 *	18.49 *	18.26 *	17.95 *	17.60 *	17.21 *	20.93 *
29	9.15 *	18.30 *	18.25 *	18.15 *	18.00 *	17.80 *	17.52 *	17.21 *	16.86 *	20.52 *
25.5	8.45 *	16.88 *	16.83 *	16.73 *	16.60 *	16.41 *	16.18 *	15.90 *	15.59 *	19.00 *
22.5	7.46 *	14.91 *	14.87 *	14.79 *	14.67 *	14.51 *	14.31 *	14.07 *	13.81 *	16.84 *
19.5	7.61 *	15.21 *	15.17 *	15.09 *	14.97 *	14.81 *	14.61 *	14.38 *	14.11 *	17.22 *
17	6.44 *	12.86 *	12.82 *	12.76 *	12.66 *	12.52 *	12.36 *	12.16 *	11.94 *	14.57 *
15	5.20 *	10.39 *	10.36 *	10.31 *	10.22 *	10.11 *	9.98 *	9.83 *	9.65 *	11.78 *
13	5.24 *	10.47 *	10.44 *	10.38 *	10.30 *	10.18 *	10.05 *	9.90 *	9.72 *	11.86 *
11	5.27 *	10.53 *	10.50 *	10.45 *	10.36 *	10.25 *	10.11 *	9.95 *	9.77 *	11.93 *
9	5.30 *	10.59 *	10.56 *	10.50 *	10.41 *	10.30 *	10.16 *	10.00 *	9.82 *	11.99 *
7	5.32 *	10.63 *	10.60 *	10.53 *	10.45 *	10.34 *	10.20 *	10.04 *	9.86 *	12.04 *
5	5.34 *	10.66 *	10.62 *	10.56 *	10.47 *	10.36 *	10.22 *	10.07 *	9.89 *	12.07 *
3	5.34 *	10.67 *	10.63 *	10.57 *	10.48 *	10.37 *	10.24 *	10.09 *	9.91 *	12.10 *
1	5.34 *	10.68 *	10.64 *	10.57 *	10.49 *	10.38 *	10.25 *	10.10 *	9.93 *	12.12 *
0	2.67 *	5.34 *	5.32 *	5.29 *	5.24 *	5.19 *	5.12 *	5.05 *	4.97 *	6.06 *
-1	2.67 *	5.33 *	5.32 *	5.28 *	5.24 *	5.19 *	5.12 *	5.05 *	4.97 *	6.06 *
-3	5.33 *	10.65 *	10.62 *	10.56 *	10.47 *	10.37 *	10.24 *	10.09 *	9.92 *	12.11 *
	5.32 *	10.62 *	10.58 *	10.53 *	10.45 *	10.35 *	10.22 *	10.07 *	9.90 *	12.08 *

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LUMENS TABULATION - (Cont.)

-5	5.30 *	10.58 *	10.54 *	10.48 *	10.40 *	10.30 *	10.18 *	10.03 *	9.86 *	12.04 *
-7	5.27 *	10.53 *	10.49 *	10.43 *	10.35 *	10.24 *	10.12 *	9.98 *	9.81 *	11.99 *
-9	5.23 *	10.45 *	10.43 *	10.37 *	10.28 *	10.17 *	10.05 *	9.90 *	9.74 *	11.90 *
-11	5.19 *	10.37 *	10.34 *	10.29 *	10.20 *	10.10 *	9.97 *	9.82 *	9.66 *	11.80 *
-13	5.14 *	10.27 *	10.25 *	10.19 *	10.11 *	10.01 *	9.88 *	9.73 *	9.57 *	11.69 *
-15	5.08 *	10.16 *	10.14 *	10.09 *	10.02 *	9.91 *	9.78 *	9.64 *	9.47 *	11.56 *
-17	6.27 *	12.54 *	12.51 *	12.45 *	12.36 *	12.24 *	12.08 *	11.89 *	11.67 *	14.25 *
-19.5	7.38 *	14.77 *	14.74 *	14.67 *	14.56 *	14.42 *	14.23 *	14.00 *	13.74 *	16.77 *
-22.5	7.19 *	14.39 *	14.37 *	14.30 *	14.20 *	14.06 *	13.87 *	13.64 *	13.38 *	16.31 *
-25.5	8.07 *	16.15 *	16.13 *	16.05 *	15.94 *	15.77 *	15.55 *	15.28 *	14.98 *	18.26 *
-29	8.63 *	17.28 *	17.26 *	17.18 *	17.06 *	16.87 *	16.61 *	16.32 *	15.99 *	19.46 *
-33	8.60 *	17.26 *	17.27 *	17.22 *	17.08 *	16.86 *	16.56 *	16.24 *	15.90 *	19.35 *
-37.5	7.71 *	15.52 *	15.56 *	15.52 *	15.39 *	15.17 *	14.90 *	14.54 *	14.16 *	17.19 *
-42.5	5.38 *	10.87 *	10.93 *	10.91 *	10.83 *	10.67 *	10.47 *	10.16 *	9.78 *	11.82 *
-47.5	4.22 *	8.55 *	8.63 *	8.63 *	8.57 *	8.44 *	8.25 *	7.98 *	7.63 *	9.19 *
-55	1.95	3.95	3.99	3.98	3.95	3.89	3.80	3.68	3.53	4.22
-65	0.59	1.19	1.19	1.18	1.17	1.15	1.13	1.09	1.06	1.27
-75	0.14	0.28	0.28	0.28	0.28	0.27	0.27	0.26	0.25	0.31
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	228.39	457.41	456.91	454.81	451.17	445.92	439.24	431.22	422.05	513.88

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	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01
85	0.36	0.34	0.37	0.40	0.42	0.40	0.32	0.35	0.28	0.09
75	1.73	1.67	1.85	1.94	1.92	1.78	1.47	1.70	1.19	0.33
65	6.55	6.37	7.00	7.18	6.85	6.24	5.16	5.66	3.72	0.99
55	13.75 *	13.14 *	14.31 *	14.60 *	13.69 *	12.08 *	9.43 *	9.68 *	6.04	1.54
47.5	16.51 *	15.56 *	16.87 *	17.35 *	16.50 *	14.50 *	10.92 *	10.73 *	6.41	1.56

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LUMENS TABULATION - (Cont.)

42.5	22.47 *	21.23 *	23.09 *	23.92 *	23.19 *	20.76 *	15.70 *	15.27 *	8.87 *	2.09
37.5	24.14 *	22.96 *	25.13 *	26.15 *	25.66 *	23.56 *	18.27 *	17.96 *	10.35 *	2.39
33	23.73 *	22.65 *	24.85 *	25.96 *	25.76 *	24.15 *	19.18 *	19.12 *	11.09 *	2.56
29	22.02 *	21.04 *	23.11 *	24.24 *	24.29 *	23.08 *	18.65 *	18.86 *	11.05 *	2.59
25.5	19.52 *	18.67 *	20.54 *	21.64 *	21.81 *	20.94 *	17.12 *	17.51 *	10.40 *	2.46
22.5	19.96 *	19.10 *	21.05 *	22.25 *	22.53 *	21.73 *	17.85 *	18.49 *	11.18 *	2.68 *
19.5	16.89 *	16.17 *	17.85 *	18.91 *	19.21 *	18.54 *	15.28 *	16.02 *	9.86 *	2.39 *
17	13.66 *	13.08 *	14.45 *	15.33 *	15.59 *	15.07 *	12.46 *	13.17 *	8.20 *	2.01 *
15	13.76 *	13.18 *	14.57 *	15.47 *	15.74 *	15.25 *	12.65 *	13.45 *	8.45 *	2.09 *
13	13.85 *	13.27 *	14.67 *	15.58 *	15.87 *	15.39 *	12.79 *	13.68 *	8.68 *	2.16 *
11	13.92 *	13.34 *	14.76 *	15.68 *	15.97 *	15.49 *	12.90 *	13.87 *	8.87 *	2.23 *
9	13.97 *	13.41 *	14.83 *	15.76 *	16.06 *	15.58 *	13.00 *	14.03 *	9.05 *	2.29 *
7	14.02 *	13.46 *	14.89 *	15.82 *	16.12 *	15.65 *	13.07 *	14.16 *	9.19 *	2.34 *
5	14.05 *	13.49 *	14.94 *	15.86 *	16.15 *	15.70 *	13.12 *	14.27 *	9.33 *	2.39 *
3	14.07 *	13.51 *	14.96 *	15.88 *	16.18 *	15.72 *	13.15 *	14.34 *	9.42 *	2.42 *
1	7.03 *	6.76 *	7.48 *	7.94 *	8.09 *	7.86 *	6.58 *	7.18 *	4.72 *	1.22 *
0	7.03 *	6.75 *	7.48 *	7.94 *	8.09 *	7.86 *	6.57 *	7.18 *	4.72 *	1.22 *
-1	14.05 *	13.49 *	14.94 *	15.86 *	16.15 *	15.69 *	13.12 *	14.30 *	9.38 *	2.41 *
-3	14.03 *	13.46 *	14.90 *	15.81 *	16.11 *	15.64 *	13.07 *	14.19 *	9.25 *	2.37 *
-5	13.98 *	13.41 *	14.84 *	15.75 *	16.04 *	15.57 *	12.99 *	14.04 *	9.08 *	2.31 *
-7	13.91 *	13.34 *	14.76 *	15.67 *	15.96 *	15.47 *	12.89 *	13.87 *	8.90 *	2.25 *
-9	13.82 *	13.26 *	14.66 *	15.57 *	15.85 *	15.35 *	12.76 *	13.66 *	8.69 *	2.18 *
-11	13.71 *	13.15 *	14.55 *	15.45 *	15.71 *	15.21 *	12.62 *	13.42 *	8.45 *	2.10 *
-13	13.58 *	13.02 *	14.41 *	15.30 *	15.56 *	15.05 *	12.45 *	13.14 *	8.19 *	2.02 *
-15	13.43 *	12.88 *	14.24 *	15.12 *	15.37 *	14.84 *	12.23 *	12.81 *	7.90 *	1.94 *
-17	16.55 *	15.86 *	17.53 *	18.58 *	18.88 *	18.22 *	14.95 *	15.50 *	9.42 *	2.29 *
-19.5	19.45 *	18.64 *	20.57 *	21.75 *	22.02 *	21.24 *	17.37 *	17.74 *	10.59 *	2.55
-22.5	18.92 *	18.11 *	19.94 *	21.01 *	21.15 *	20.28 *	16.49 *	16.63 *	9.76 *	2.32

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LUMENS TABULATION - (Cont.)

-25.5	21.18 *	20.26 *	22.24 *	23.31 *	23.30 *	22.07 *	17.72 *	17.70 *	10.26 *	2.41
-29	22.51 *	21.49 *	23.58 *	24.58 *	24.27 *	22.63 *	17.86 *	17.64 *	10.13 *	2.36
-33	22.32 *	21.24 *	23.22 *	24.05 *	23.47 *	21.40 *	16.51 *	16.15 *	9.25 *	2.16
-37.5	19.82 *	18.82 *	20.44 *	21.03 *	20.20 *	18.02 *	13.72 *	13.34 *	7.72 *	1.87
-42.5	13.71 *	13.08 *	14.14 *	14.35 *	13.51 *	12.00 *	9.28 *	9.15 *	5.46	1.37
-47.5	10.80 *	10.47 *	11.40 *	11.46 *	10.67 *	9.61 *	7.74 *	8.05	5.06	1.31
-55	4.95	4.89	5.45	5.59	5.28	4.81	4.11	4.63	3.05	0.82
-65	1.46	1.40	1.54	1.61	1.58	1.46	1.23	1.43	0.98	0.27
-75	0.35	0.33	0.36	0.37	0.37	0.35	0.29	0.34	0.26	0.09
-85	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01
-90	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01
Total	595.55	569.79	626.78	658.02	657.15	622.27	505.06	524.46	322.88	79.45

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.00	0.00	0.17
85			
	0.01	0.00	5.94
75			
	0.03	0.00	28.50
65			
	0.10	0.00	105.12
55			
	0.15	0.00	211.32
47.5			
	0.15	0.00	250.04
42.5			
	0.20	0.00	342.46
37.5			
	0.23	0.00	372.74
33			
	0.24	0.00	371.06
29			
	0.24	0.00	347.74
25.5			
	0.23	0.00	311.09
22.5			
	0.25	0.00	320.25
19.5			
	0.22	0.00	272.45
17			
	0.19	0.00	221.02
15			
	0.19	0.00	223.32

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LUMENS TABULATION - (Cont.)

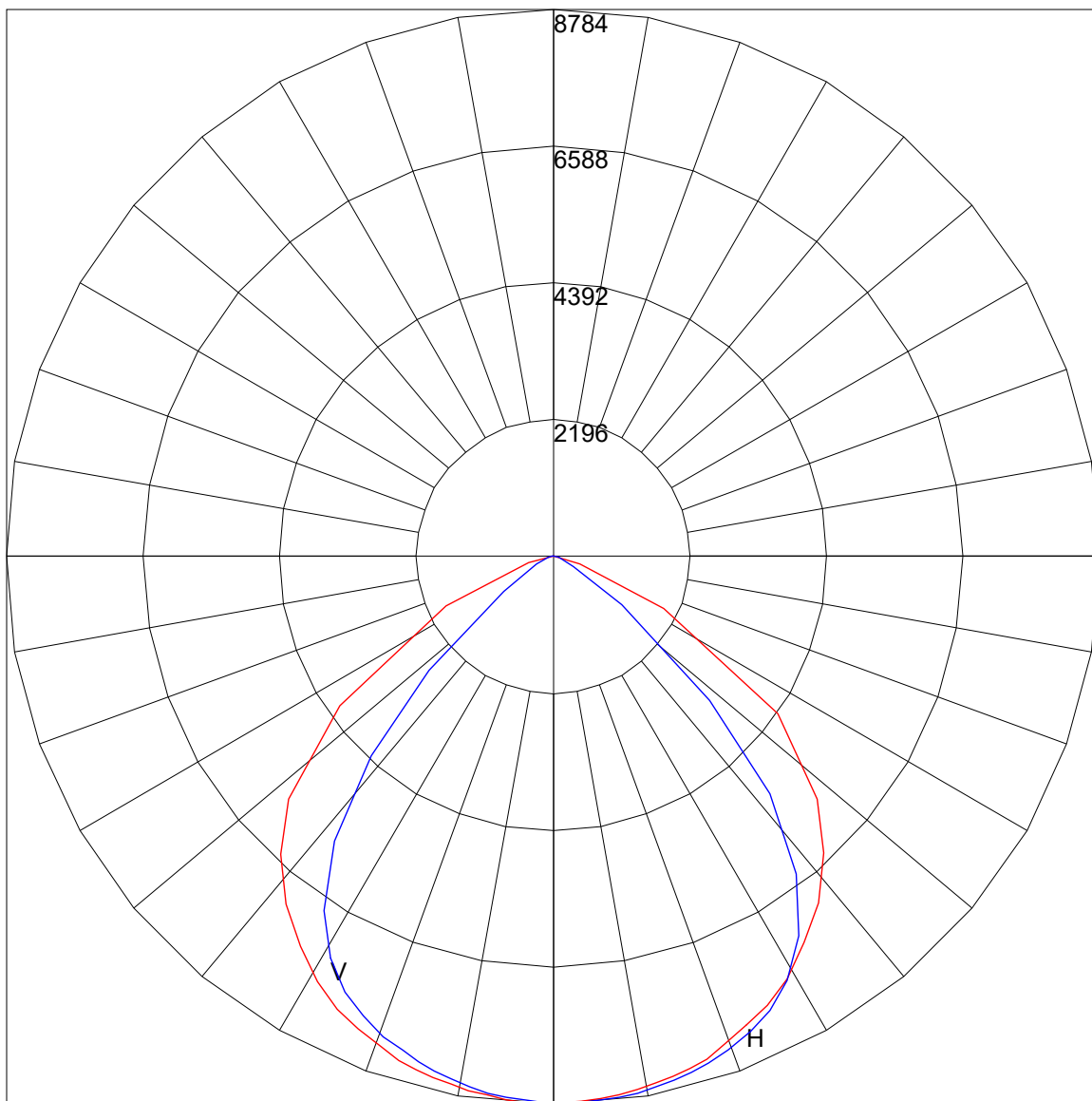
13	0.20	0.00	225.26
11	0.20	0.00	226.88
9	0.21	0.00	228.19
7	0.21	0.00	229.19
5	0.22	0.00	229.93
3	0.22	0.00	230.34
1	0.11	0.00	115.23
0	0.11	0.00	115.19
-1	0.22	0.00	229.98
-3	0.22	0.00	229.15
-5	0.21	0.00	227.94
-7	0.21	0.00	226.42
-9	0.20	0.00	224.53
-11	0.19	0.00	222.31
-13	0.19	0.00	219.74
-15	0.18	0.00	216.78
-17	0.22	0.00	266.25
-19.5	0.24	0.00	311.42
-22.5	0.22	0.00	300.54
-25.5	0.23	0.00	332.85
-29	0.23	0.00	349.92
-33	0.21	0.00	342.34
-37.5	0.19	0.00	300.83
-42.5	0.14	0.00	208.04
-47.5	0.13	0.00	166.77
-55	0.09	0.00	80.59
-65	0.03	0.00	24.03
-75	0.01	0.00	5.72

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LUMENS TABULATION - (Cont.)

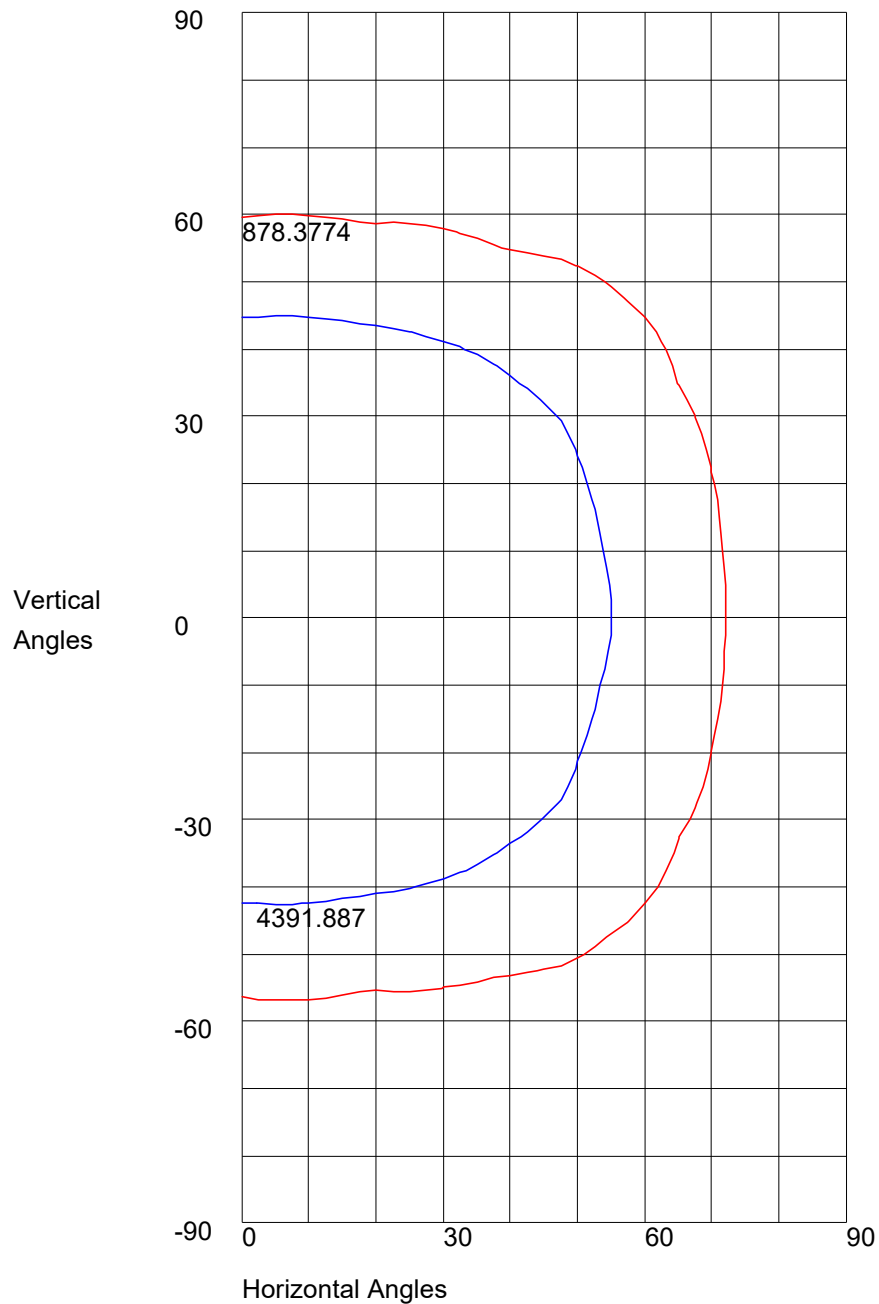
-85	0.00	0.00	0.30
-90			
Total	7.47	0.00	9469.89

AXIAL CANDELA DISPLAY



Maximum Candela = 8783.774 Located At Horizontal Angle = -1, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 8783.774 Located At Horizontal Angle = -1, Vertical Angle = 3
50% Maximum Candela = 4391.887
10% Maximum Candela = 878.3774