



IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL140 76 UV 8SEL [100W, 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 [100W, 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	6599.25
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	14178.9 (1 lamp)
Total Lamp Lumens	14178.9
Beam Lumens	11355
Beam Efficiency	80 %
Field Lumens	13745
Field Efficiency	97 %
Spill Lumens	485
Luminaire Lumens	14229
Total Efficiency	100 %
Total Luminaire Watts	100
Ballast Factor	1.00

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DEG.	HOR.	DEG.	VERT.
90	0	90	0
85	0	85	0
75	333.037	75	65.661
65	1470.47	65	270.276
55	3314.523	55	1003.362
47.5	4325.061	47.5	2562.251
42.5	4840.314	42.5	3874.482
37.5	5263.644	37.5	4818.519
33	5555.284	33	5443.459
29	5822.372	29	5836.132
25.5	5993.813	25.5	6066.023
22.5	6112.937	22.5	6203.97
19.5	6234.559	19.5	6313.693
17	6333.27	17	6388.072
15	6394.369	15	6437.024
13	6429.768	13	6480.079
11	6466.742	11	6516.654
9	6501.007	9	6550.063
7	6534.697	7	6575.698
5	6568.81	5	6584.328
3	6580.661	3	6590.234
1	6580.661	1	6592.967
0	6588.939	0	6588.939
-1	6591.648	-1	6582.035
-3	6588.084	-3	6564.311
-5	6570.384	-5	6546.46
-7	6542.688	-7	6514.352
-9	6524.269	-9	6469.427
-11	6486.16	-11	6423.631
-13	6449.33	-13	6367.623
-15	6406.93	-15	6299.365
-17	6355.685	-17	6229.524
-19.5	6262.683	-19.5	6136.582
-22.5	6167.967	-22.5	5996.973
-25.5	6049.702	-25.5	5825.049
-29	5869.478	-29	5541.084
-33	5611.668	-33	5084.188
-37.5	5288.768	-37.5	4332.24
-42.5	4866.153	-42.5	3258.903
-47.5	4329.839	-47.5	2032.419
-55	3135.798	-55	726.022
-65	1422.94	-65	228.516
-75	298.492	-75	62.057
-85	0	-85	6.768
-90	0	-90	0

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 7114.72

Total Field Lumens (one side of beam only) = 6872.4

* 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	0.00
75	0.10	0.20	0.21	0.21	0.20	0.20	0.20	0.20	0.19	0.23
65	0.51	1.03	1.04	1.03	1.02	1.01	0.99	0.97	0.94	1.13
55	1.95	3.96	4.00	3.99	3.96	3.90	3.81	3.69	3.54	4.23
47.5	4.09 *	8.28 *	8.35 *	8.34 *	8.26 *	8.12 *	7.93 *	7.68 *	7.38 *	8.90 *
42.5	4.92 *	9.89 *	9.93 *	9.90 *	9.80 *	9.64 *	9.45 *	9.19 *	8.90 *	10.78 *
37.5	6.63 *	13.30 *	13.30 *	13.25 *	13.13 *	12.94 *	12.71 *	12.42 *	12.11 *	14.69 *
33	7.04 *	14.09 *	14.07 *	14.01 *	13.89 *	13.72 *	13.49 *	13.22 *	12.93 *	15.72 *
29	6.88 *	13.75 *	13.71 *	13.64 *	13.53 *	13.37 *	13.17 *	12.93 *	12.67 *	15.42 *
25.5	6.35 *	12.68 *	12.64 *	12.57 *	12.47 *	12.33 *	12.16 *	11.95 *	11.71 *	14.27 *
22.5	5.61 *	11.20 *	11.17 *	11.11 *	11.02 *	10.90 *	10.75 *	10.57 *	10.37 *	12.65 *
19.5	5.72 *	11.43 *	11.40 *	11.34 *	11.25 *	11.13 *	10.98 *	10.80 *	10.60 *	12.93 *
17	4.84 *	9.66 *	9.64 *	9.58 *	9.51 *	9.41 *	9.28 *	9.14 *	8.97 *	10.95 *
15	3.91 *	7.81 *	7.78 *	7.74 *	7.68 *	7.60 *	7.50 *	7.38 *	7.25 *	8.85 *
13	3.94 *	7.86 *	7.84 *	7.80 *	7.74 *	7.65 *	7.55 *	7.44 *	7.30 *	8.91 *
11	3.96 *	7.91 *	7.89 *	7.85 *	7.78 *	7.70 *	7.60 *	7.48 *	7.34 *	8.96 *
9	3.98 *	7.96 *	7.93 *	7.89 *	7.82 *	7.74 *	7.64 *	7.51 *	7.38 *	9.01 *
7	4.00 *	7.99 *	7.96 *	7.91 *	7.85 *	7.76 *	7.66 *	7.54 *	7.41 *	9.04 *
5	4.01 *	8.01 *	7.98 *	7.93 *	7.87 *	7.78 *	7.68 *	7.56 *	7.43 *	9.07 *
3	4.01 *	8.02 *	7.99 *	7.94 *	7.88 *	7.79 *	7.69 *	7.58 *	7.45 *	9.09 *
1	4.02 *	8.02 *	7.99 *	7.94 *	7.88 *	7.80 *	7.70 *	7.59 *	7.46 *	9.10 *
0	2.01 *	4.01 *	4.00 *	3.97 *	3.94 *	3.90 *	3.85 *	3.80 *	3.73 *	4.55 *
-1	2.01 *	4.01 *	4.00 *	3.97 *	3.94 *	3.90 *	3.85 *	3.79 *	3.73 *	4.55 *
-3	4.00 *	8.00 *	7.98 *	7.93 *	7.87 *	7.79 *	7.69 *	7.58 *	7.45 *	9.10 *
	3.99 *	7.98 *	7.95 *	7.91 *	7.85 *	7.77 *	7.68 *	7.56 *	7.43 *	9.08 *

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LUMENS TABULATION - (Cont.)

-5	3.98 *	7.95 *	7.92 *	7.87 *	7.82 *	7.74 *	7.65 *	7.54 *	7.41 *	9.05 *
-7	3.96 *	7.91 *	7.88 *	7.84 *	7.77 *	7.70 *	7.60 *	7.49 *	7.37 *	9.00 *
-9	3.93 *	7.85 *	7.83 *	7.79 *	7.72 *	7.64 *	7.55 *	7.44 *	7.32 *	8.94 *
-11	3.90 *	7.79 *	7.77 *	7.73 *	7.67 *	7.59 *	7.49 *	7.38 *	7.26 *	8.87 *
-13	3.86 *	7.72 *	7.70 *	7.66 *	7.60 *	7.52 *	7.42 *	7.31 *	7.19 *	8.78 *
-15	3.82 *	7.64 *	7.62 *	7.58 *	7.53 *	7.45 *	7.35 *	7.24 *	7.11 *	8.68 *
-17	4.71 *	9.42 *	9.40 *	9.36 *	9.29 *	9.19 *	9.07 *	8.93 *	8.77 *	10.71 *
-19.5	5.55 *	11.09 *	11.07 *	11.02 *	10.94 *	10.83 *	10.69 *	10.52 *	10.32 *	12.60 *
-22.5	5.40 *	10.81 *	10.79 *	10.75 *	10.67 *	10.56 *	10.42 *	10.24 *	10.05 *	12.26 *
-25.5	6.06 *	12.13 *	12.12 *	12.06 *	11.97 *	11.85 *	11.68 *	11.48 *	11.26 *	13.72 *
-29	6.48 *	12.98 *	12.97 *	12.91 *	12.82 *	12.67 *	12.48 *	12.26 *	12.02 *	14.62 *
-33	6.46 *	12.97 *	12.98 *	12.94 *	12.84 *	12.67 *	12.44 *	12.20 *	11.95 *	14.54 *
-37.5	5.80 *	11.66 *	11.69 *	11.66 *	11.56 *	11.40 *	11.19 *	10.93 *	10.64 *	12.91 *
-42.5	4.05 *	8.16 *	8.21 *	8.20 *	8.13 *	8.02 *	7.87 *	7.64 *	7.35 *	8.88 *
-47.5	3.17 *	6.42 *	6.48 *	6.48 *	6.44 *	6.34 *	6.20 *	5.99 *	5.73 *	6.91 *
-55	1.46	2.97	3.00	2.99	2.97	2.92	2.85	2.77	2.65	3.17
-65	0.44	0.89	0.89	0.89	0.88	0.86	0.85	0.82	0.80	0.96
-75	0.10	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.19	0.23
-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	171.59	343.65	343.28	341.70	338.96	335.02	330.00	323.98	317.09	386.08

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01
85	0.27	0.26	0.28	0.30	0.31	0.30	0.24	0.27	0.21	0.07
75	1.30	1.25	1.39	1.46	1.45	1.34	1.11	1.28	0.89	0.25
65	4.92	4.79	5.26	5.40	5.15	4.69	3.87	4.25	2.80	0.74
55	10.33 *	9.87 *	10.75 *	10.97 *	10.28 *	9.07 *	7.08 *	7.27 *	4.54	1.16
47.5	12.40 *	11.69 *	12.67 *	13.03 *	12.39 *	10.89 *	8.20 *	8.06 *	4.82	1.18

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LUMENS TABULATION - (Cont.)

42.5	16.88 *	15.95 *	17.35 *	17.97 *	17.42 *	15.60 *	11.79 *	11.47 *	6.67 *	1.57
37.5	18.14 *	17.25 *	18.88 *	19.64 *	19.28 *	17.70 *	13.73 *	13.49 *	7.78 *	1.80
33	17.83 *	17.02 *	18.67 *	19.50 *	19.35 *	18.14 *	14.41 *	14.37 *	8.33 *	1.93
29	16.54 *	15.81 *	17.36 *	18.21 *	18.25 *	17.34 *	14.01 *	14.17 *	8.30 *	1.94
25.5	14.67 *	14.02 *	15.43 *	16.26 *	16.39 *	15.73 *	12.86 *	13.16 *	7.81 *	1.85
22.5	15.00 *	14.35 *	15.82 *	16.72 *	16.93 *	16.32 *	13.41 *	13.89 *	8.40 *	2.01 *
19.5	12.69 *	12.15 *	13.41 *	14.21 *	14.43 *	13.93 *	11.48 *	12.04 *	7.41 *	1.79 *
17	10.26 *	9.83 *	10.85 *	11.51 *	11.71 *	11.32 *	9.36 *	9.89 *	6.16 *	1.51 *
15	10.34 *	9.90 *	10.94 *	11.62 *	11.83 *	11.45 *	9.50 *	10.10 *	6.35 *	1.57 *
13	10.40 *	9.97 *	11.02 *	11.70 *	11.92 *	11.56 *	9.61 *	10.28 *	6.52 *	1.63 *
11	10.45 *	10.02 *	11.09 *	11.78 *	12.00 *	11.64 *	9.69 *	10.42 *	6.67 *	1.68 *
9	10.50 *	10.07 *	11.15 *	11.84 *	12.06 *	11.71 *	9.76 *	10.54 *	6.80 *	1.72 *
7	10.53 *	10.11 *	11.19 *	11.88 *	12.11 *	11.76 *	9.82 *	10.64 *	6.91 *	1.76 *
5	10.56 *	10.14 *	11.22 *	11.91 *	12.14 *	11.79 *	9.86 *	10.72 *	7.01 *	1.79 *
3	10.57 *	10.15 *	11.24 *	11.93 *	12.15 *	11.81 *	9.88 *	10.77 *	7.08 *	1.82 *
1	5.28 *	5.08 *	5.62 *	5.97 *	6.08 *	5.91 *	4.94 *	5.39 *	3.55 *	0.92 *
0	5.28 *	5.07 *	5.62 *	5.97 *	6.08 *	5.91 *	4.94 *	5.39 *	3.55 *	0.91 *
-1	10.56 *	10.14 *	11.23 *	11.92 *	12.13 *	11.79 *	9.86 *	10.74 *	7.05 *	1.81 *
-3	10.54 *	10.11 *	11.19 *	11.88 *	12.10 *	11.75 *	9.82 *	10.66 *	6.95 *	1.78 *
-5	10.50 *	10.08 *	11.15 *	11.83 *	12.05 *	11.70 *	9.76 *	10.55 *	6.82 *	1.74 *
-7	10.45 *	10.02 *	11.09 *	11.77 *	11.99 *	11.63 *	9.68 *	10.42 *	6.69 *	1.69 *
-9	10.39 *	9.96 *	11.02 *	11.70 *	11.91 *	11.53 *	9.59 *	10.26 *	6.53 *	1.64 *
-11	10.30 *	9.88 *	10.93 *	11.60 *	11.81 *	11.43 *	9.48 *	10.08 *	6.35 *	1.58 *
-13	10.20 *	9.78 *	10.82 *	11.49 *	11.69 *	11.30 *	9.35 *	9.87 *	6.15 *	1.52 *
-15	10.09 *	9.68 *	10.70 *	11.36 *	11.55 *	11.15 *	9.19 *	9.62 *	5.93 *	1.45 *
-17	12.43 *	11.92 *	13.17 *	13.96 *	14.19 *	13.69 *	11.23 *	11.64 *	7.08 *	1.72 *
-19.5	14.62 *	14.00 *	15.45 *	16.34 *	16.54 *	15.96 *	13.05 *	13.32 *	7.95 *	1.91
-22.5	14.22 *	13.61 *	14.98 *	15.78 *	15.89 *	15.24 *	12.39 *	12.50 *	7.33 *	1.74

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LUMENS TABULATION - (Cont.)

-25.5	15.91 *	15.22 *	16.71 *	17.51 *	17.50 *	16.58 *	13.31 *	13.30 *	7.70 *	1.81
-29	16.91 *	16.15 *	17.71 *	18.46 *	18.24 *	17.00 *	13.42 *	13.25 *	7.61 *	1.77
-33	16.77 *	15.96 *	17.45 *	18.07 *	17.63 *	16.07 *	12.40 *	12.13 *	6.95 *	1.62
-37.5	14.89 *	14.14 *	15.36 *	15.80 *	15.18 *	13.54 *	10.31 *	10.02 *	5.80 *	1.40
-42.5	10.30 *	9.83 *	10.62 *	10.78 *	10.15 *	9.02 *	6.97 *	6.87 *	4.10	1.03
-47.5	8.11 *	7.87 *	8.56 *	8.61 *	8.01 *	7.22 *	5.82 *	6.05	3.80	0.99
-55	3.72	3.67	4.09	4.20	3.96	3.61	3.09	3.48	2.29	0.62
-65	1.10	1.06	1.16	1.21	1.19	1.10	0.93	1.08	0.74	0.20
-75	0.26	0.25	0.27	0.28	0.27	0.26	0.22	0.25	0.19	0.07
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01
-90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01
Total	447.44	428.08	470.90	494.37	493.72	467.52	379.45	394.03	242.58	59.69

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90	0.00	0.00	0.13	
85	0.01	0.00	4.46	
75	0.02	0.00	21.42	
65	0.07	0.00	78.98	
55	0.11	0.00	158.77	
47.5	0.11	0.00	187.86	
42.5	0.15	0.00	257.29	
37.5	0.17	0.00	280.04	
33	0.18	0.00	278.78	
29	0.18	0.00	261.25	
25.5	0.17	0.00	233.72	
22.5	0.19	0.00	240.60	
19.5	0.17	0.00	204.69	
17	0.14	0.00	166.05	
15	0.14	0.00	167.78	

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LUMENS TABULATION - (Cont.)

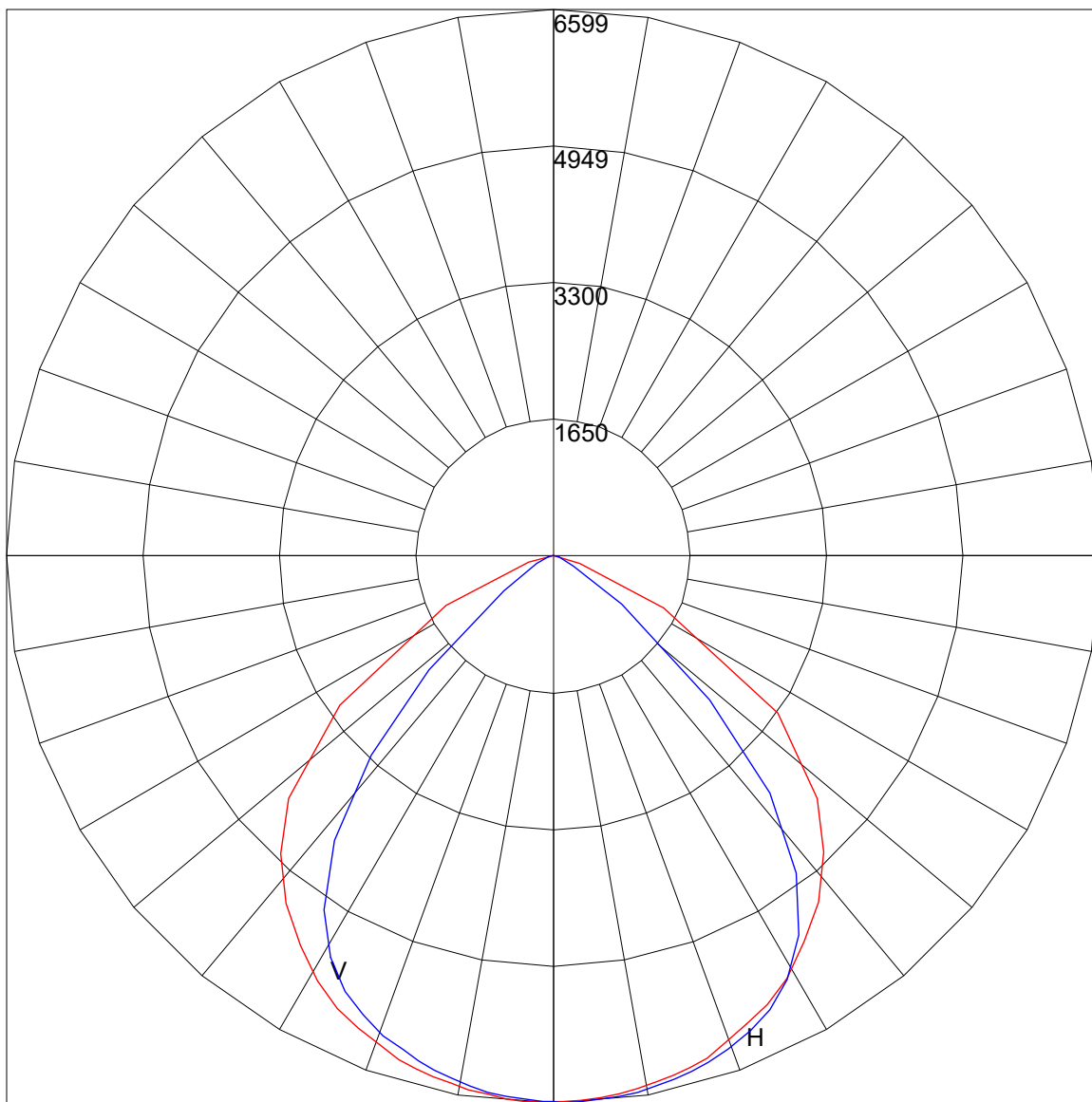
13	0.15	0.00	169.24
11	0.15	0.00	170.45
9	0.16	0.00	171.44
7	0.16	0.00	172.19
5	0.16	0.00	172.74
3	0.17	0.00	173.06
1	0.08	0.00	86.57
0	0.08	0.00	86.54
-1	0.16	0.00	172.78
-3	0.16	0.00	172.16
-5	0.16	0.00	171.25
-7	0.16	0.00	170.11
-9	0.15	0.00	168.69
-11	0.15	0.00	167.02
-13	0.14	0.00	165.09
-15	0.14	0.00	162.87
-17	0.16	0.00	200.03
-19.5	0.18	0.00	233.97
-22.5	0.17	0.00	225.80
-25.5	0.17	0.00	250.07
-29	0.17	0.00	262.90
-33	0.16	0.00	257.20
-37.5	0.14	0.00	226.02
-42.5	0.11	0.00	156.30
-47.5	0.10	0.00	125.30
-55	0.07	0.00	60.55
-65	0.02	0.00	18.05
-75	0.01	0.00	4.30

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LUMENS TABULATION - (Cont.)

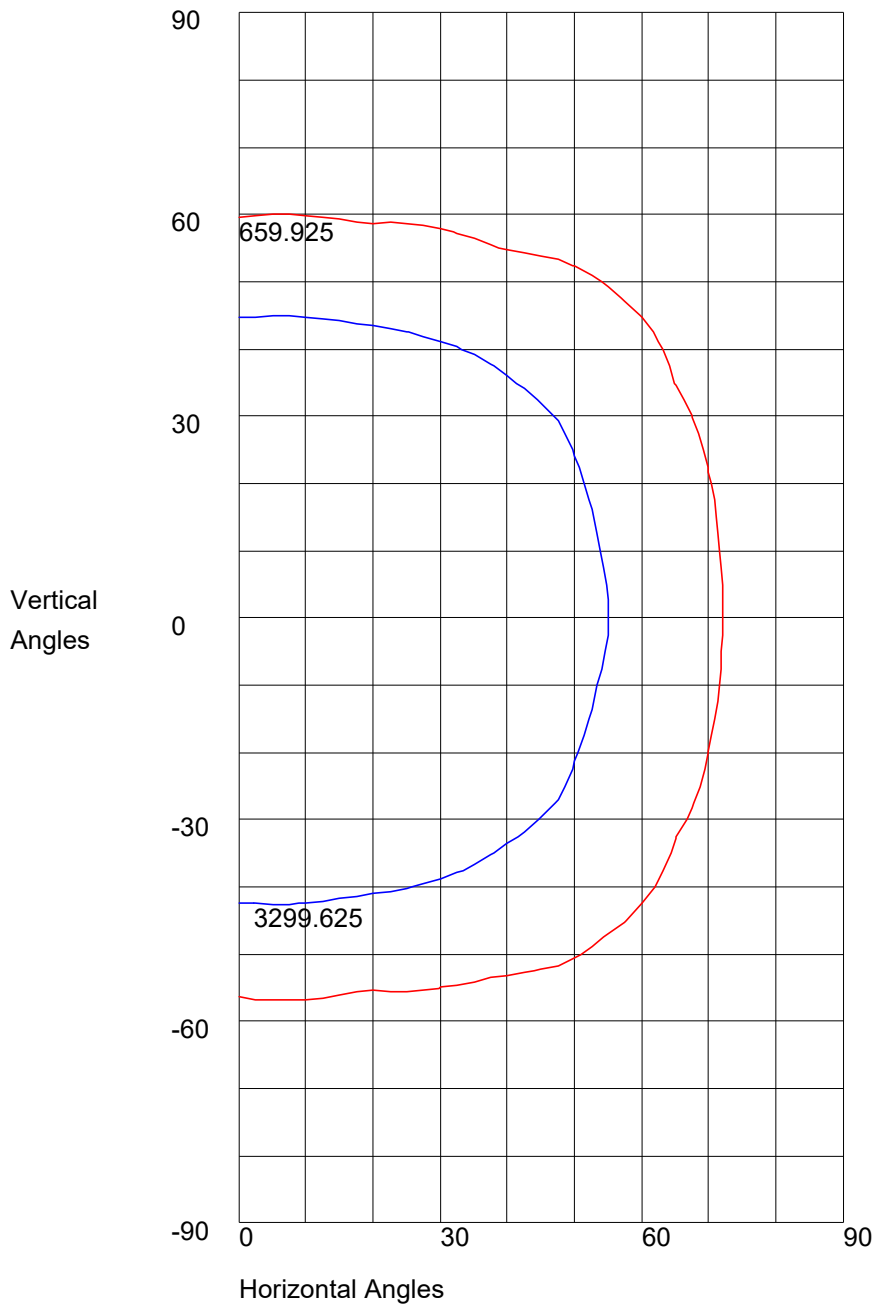
-85	0.00	0.00	0.22
-90			
Total	5.61	0.00	7114.73

AXIAL CANDELA DISPLAY



Maximum Candela = 6599.25 Located At Horizontal Angle = -1, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 6599.25 Located At Horizontal Angle = -1, Vertical Angle = 3
50% Maximum Candela = 3299.625
10% Maximum Candela = 659.925