



IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL140 76 UV 8SEL [100W, 4000K].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, 4000K]
[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	6940.635
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	14912.38 (1 lamp)
Total Lamp Lumens	14912.38
Beam Lumens	11942
Beam Efficiency	80 %
Field Lumens	14456
Field Efficiency	97 %
Spill Lumens	510
Luminaire Lumens	14966
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	350.265	75	69.058
65	1546.539	65	284.258
55	3485.986	55	1055.266
47.5	4548.799	47.5	2694.799
42.5	5090.707	42.5	4074.911
37.5	5535.936	37.5	5067.784
33	5842.663	33	5725.054
29	6123.568	29	6138.04
25.5	6303.878	25.5	6379.822
22.5	6429.164	22.5	6524.906
19.5	6557.077	19.5	6640.305
17	6660.895	17	6718.532
15	6725.154	15	6770.016
13	6762.385	13	6815.299
11	6801.272	11	6853.765
9	6837.309	9	6888.903
7	6872.742	7	6915.864
5	6908.62	5	6924.941
3	6921.083	3	6931.152
1	6921.083	1	6934.026
0	6929.79	0	6929.79
-1	6932.639	-1	6922.529
-3	6928.891	-3	6903.888
-5	6910.275	-5	6885.113
-7	6881.146	-7	6851.345
-9	6861.774	-9	6804.096
-11	6821.694	-11	6755.931
-13	6782.959	-13	6697.025
-15	6738.366	-15	6625.236
-17	6684.469	-17	6551.782
-19.5	6586.656	-19.5	6454.032
-22.5	6487.04	-22.5	6307.201
-25.5	6362.657	-25.5	6126.383
-29	6173.111	-29	5827.729
-33	5901.964	-33	5347.197
-37.5	5562.36	-37.5	4556.351
-42.5	5117.883	-42.5	3427.488
-47.5	4553.825	-47.5	2137.557
-55	3298.015	-55	763.579
-65	1496.55	-65	240.337
-75	313.933	-75	65.268
-85	0	-85	7.118
-90	0	-90	0

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 7482.78

Total Field Lumens (one side of beam only) = 7227.92

* 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	0.11	0.21	0.22	0.22	0.22	0.21	0.21	0.21	0.20	0.25
65	0.54	1.09	1.09	1.09	1.08	1.06	1.04	1.02	0.99	1.19
55	2.05	4.17	4.20	4.20	4.17	4.10	4.01	3.88	3.73	4.45
47.5	4.30 *	8.71 *	8.78 *	8.77 *	8.69 *	8.54 *	8.34 *	8.07 *	7.76 *	9.36 *
42.5	5.17 *	10.40 *	10.44 *	10.41 *	10.31 *	10.14 *	9.94 *	9.67 *	9.36 *	11.33 *
37.5	6.97 *	13.98 *	13.99 *	13.93 *	13.81 *	13.61 *	13.37 *	13.06 *	12.73 *	15.45 *
33	7.40 *	14.82 *	14.80 *	14.73 *	14.61 *	14.43 *	14.18 *	13.90 *	13.60 *	16.54 *
29	7.23 *	14.46 *	14.42 *	14.34 *	14.23 *	14.06 *	13.85 *	13.60 *	13.32 *	16.21 *
25.5	6.67 *	13.34 *	13.30 *	13.22 *	13.11 *	12.97 *	12.79 *	12.57 *	12.32 *	15.01 *
22.5	5.90 *	11.78 *	11.75 *	11.69 *	11.59 *	11.47 *	11.31 *	11.12 *	10.91 *	13.31 *
19.5	6.02 *	12.02 *	11.99 *	11.92 *	11.83 *	11.70 *	11.55 *	11.36 *	11.15 *	13.60 *
17	5.09 *	10.16 *	10.13 *	10.08 *	10.00 *	9.89 *	9.76 *	9.61 *	9.44 *	11.51 *
15	4.11 *	8.21 *	8.19 *	8.14 *	8.08 *	7.99 *	7.89 *	7.76 *	7.63 *	9.31 *
13	4.14 *	8.27 *	8.25 *	8.20 *	8.14 *	8.05 *	7.94 *	7.82 *	7.68 *	9.37 *
11	4.16 *	8.32 *	8.30 *	8.26 *	8.19 *	8.10 *	7.99 *	7.87 *	7.72 *	9.43 *
9	4.19 *	8.37 *	8.34 *	8.30 *	8.23 *	8.14 *	8.03 *	7.90 *	7.76 *	9.47 *
7	4.21 *	8.40 *	8.37 *	8.32 *	8.25 *	8.17 *	8.06 *	7.93 *	7.79 *	9.51 *
5	4.22 *	8.42 *	8.39 *	8.34 *	8.27 *	8.18 *	8.08 *	7.96 *	7.81 *	9.54 *
3	4.22 *	8.43 *	8.40 *	8.35 *	8.28 *	8.19 *	8.09 *	7.97 *	7.83 *	9.56 *
1	4.22 *	8.44 *	8.40 *	8.35 *	8.29 *	8.20 *	8.10 *	7.98 *	7.85 *	9.58 *
0	2.11 *	4.22 *	4.20 *	4.18 *	4.14 *	4.10 *	4.05 *	3.99 *	3.92 *	4.79 *
-1	2.11 *	4.21 *	4.20 *	4.18 *	4.14 *	4.10 *	4.05 *	3.99 *	3.92 *	4.79 *
-3	4.21 *	8.42 *	8.39 *	8.34 *	8.28 *	8.19 *	8.09 *	7.97 *	7.84 *	9.57 *
	4.20 *	8.39 *	8.36 *	8.32 *	8.26 *	8.17 *	8.07 *	7.96 *	7.82 *	9.55 *

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LUMENS TABULATION - (Cont.)

-5	4.18 *	8.36 *	8.33 *	8.28 *	8.22 *	8.14 *	8.04 *	7.93 *	7.79 *	9.52 *
-7	4.16 *	8.32 *	8.29 *	8.24 *	8.17 *	8.09 *	8.00 *	7.88 *	7.75 *	9.47 *
-9	4.13 *	8.26 *	8.24 *	8.19 *	8.12 *	8.04 *	7.94 *	7.83 *	7.70 *	9.41 *
-11	4.10 *	8.19 *	8.17 *	8.13 *	8.06 *	7.98 *	7.88 *	7.76 *	7.63 *	9.33 *
-13	4.06 *	8.12 *	8.10 *	8.06 *	7.99 *	7.91 *	7.81 *	7.69 *	7.56 *	9.24 *
-15	4.02 *	8.03 *	8.01 *	7.98 *	7.91 *	7.83 *	7.73 *	7.61 *	7.48 *	9.13 *
-17	4.95 *	9.91 *	9.89 *	9.84 *	9.77 *	9.67 *	9.54 *	9.39 *	9.22 *	11.26 *
-19.5	5.83 *	11.67 *	11.65 *	11.59 *	11.51 *	11.39 *	11.24 *	11.06 *	10.86 *	13.25 *
-22.5	5.68 *	11.37 *	11.35 *	11.30 *	11.22 *	11.11 *	10.96 *	10.77 *	10.57 *	12.89 *
-25.5	6.38 *	12.76 *	12.74 *	12.69 *	12.59 *	12.46 *	12.29 *	12.08 *	11.84 *	14.43 *
-29	6.82 *	13.65 *	13.64 *	13.58 *	13.48 *	13.33 *	13.12 *	12.90 *	12.64 *	15.38 *
-33	6.80 *	13.64 *	13.65 *	13.61 *	13.50 *	13.32 *	13.09 *	12.83 *	12.57 *	15.29 *
-37.5	6.10 *	12.26 *	12.29 *	12.27 *	12.16 *	11.99 *	11.77 *	11.49 *	11.19 *	13.58 *
-42.5	4.25 *	8.59 *	8.64 *	8.62 *	8.56 *	8.43 *	8.27 *	8.03 *	7.73 *	9.34 *
-47.5	3.33 *	6.75 *	6.82 *	6.82 *	6.77 *	6.67 *	6.52 *	6.30 *	6.03 *	7.26 *
-55	1.54	3.12	3.15	3.14	3.12	3.07	3.00	2.91	2.79	3.34
-65	0.47	0.94	0.94	0.93	0.92	0.91	0.89	0.87	0.84	1.01
-75	0.11	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.20	0.24
-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	180.46	361.43	361.03	359.37	356.50	352.35	347.08	340.74	333.49	406.05

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	0.28	0.27	0.29	0.31	0.33	0.32	0.25	0.28	0.22	0.07
75	1.37	1.32	1.46	1.53	1.52	1.40	1.16	1.34	0.94	0.26
65	5.18	5.04	5.53	5.68	5.42	4.93	4.07	4.47	2.94	0.78
55	10.87 *	10.38 *	11.31 *	11.53 *	10.82 *	9.54 *	7.45 *	7.65 *	4.77	1.22
47.5	13.04 *	12.30 *	13.33 *	13.71 *	13.04 *	11.46 *	8.63 *	8.48 *	5.07	1.24

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LUMENS TABULATION - (Cont.)

42.5	17.76 *	16.78 *	18.24 *	18.90 *	18.32 *	16.41 *	12.40 *	12.06 *	7.01 *	1.65
37.5	19.08 *	18.15 *	19.86 *	20.66 *	20.28 *	18.61 *	14.44 *	14.19 *	8.18 *	1.89
33	18.75 *	17.90 *	19.63 *	20.51 *	20.35 *	19.08 *	15.15 *	15.11 *	8.76 *	2.03
29	17.40 *	16.63 *	18.26 *	19.15 *	19.19 *	18.24 *	14.74 *	14.90 *	8.73 *	2.05
25.5	15.43 *	14.75 *	16.23 *	17.10 *	17.24 *	16.54 *	13.53 *	13.84 *	8.22 *	1.95
22.5	15.77 *	15.09 *	16.63 *	17.58 *	17.80 *	17.17 *	14.10 *	14.61 *	8.84 *	2.11 *
19.5	13.35 *	12.78 *	14.10 *	14.94 *	15.18 *	14.65 *	12.07 *	12.66 *	7.79 *	1.89 *
17	10.79 *	10.33 *	11.42 *	12.11 *	12.31 *	11.91 *	9.85 *	10.41 *	6.48 *	1.59 *
15	10.87 *	10.42 *	11.51 *	12.22 *	12.44 *	12.05 *	9.99 *	10.62 *	6.68 *	1.65 *
13	10.94 *	10.48 *	11.59 *	12.31 *	12.54 *	12.16 *	10.11 *	10.81 *	6.86 *	1.71 *
11	11.00 *	10.54 *	11.66 *	12.39 *	12.62 *	12.24 *	10.20 *	10.96 *	7.01 *	1.76 *
9	11.04 *	10.59 *	11.72 *	12.45 *	12.69 *	12.31 *	10.27 *	11.09 *	7.15 *	1.81 *
7	11.08 *	10.63 *	11.77 *	12.50 *	12.73 *	12.37 *	10.33 *	11.19 *	7.26 *	1.85 *
5	11.10 *	10.66 *	11.80 *	12.53 *	12.76 *	12.40 *	10.37 *	11.28 *	7.37 *	1.89 *
3	11.11 *	10.67 *	11.82 *	12.55 *	12.78 *	12.42 *	10.39 *	11.33 *	7.44 *	1.91 *
1	5.56 *	5.34 *	5.91 *	6.28 *	6.39 *	6.21 *	5.20 *	5.67 *	3.73 *	0.96 *
0	5.56 *	5.34 *	5.91 *	6.27 *	6.39 *	6.21 *	5.20 *	5.67 *	3.73 *	0.96 *
-1	11.10 *	10.66 *	11.81 *	12.53 *	12.76 *	12.40 *	10.37 *	11.30 *	7.41 *	1.90 *
-3	11.08 *	10.64 *	11.77 *	12.50 *	12.73 *	12.36 *	10.32 *	11.22 *	7.31 *	1.87 *
-5	11.05 *	10.60 *	11.72 *	12.45 *	12.68 *	12.30 *	10.26 *	11.10 *	7.18 *	1.82 *
-7	10.99 *	10.54 *	11.66 *	12.38 *	12.61 *	12.23 *	10.18 *	10.96 *	7.03 *	1.78 *
-9	10.92 *	10.47 *	11.59 *	12.30 *	12.52 *	12.13 *	10.09 *	10.79 *	6.86 *	1.72 *
-11	10.83 *	10.39 *	11.49 *	12.20 *	12.42 *	12.02 *	9.97 *	10.61 *	6.68 *	1.66 *
-13	10.73 *	10.29 *	11.38 *	12.09 *	12.30 *	11.89 *	9.83 *	10.38 *	6.47 *	1.60 *
-15	10.61 *	10.18 *	11.25 *	11.95 *	12.15 *	11.73 *	9.66 *	10.12 *	6.24 *	1.53 *
-17	13.08 *	12.53 *	13.85 *	14.68 *	14.92 *	14.39 *	11.81 *	12.24 *	7.44 *	1.81 *
-19.5	15.37 *	14.73 *	16.25 *	17.18 *	17.40 *	16.78 *	13.73 *	14.01 *	8.37 *	2.01
-22.5	14.95 *	14.31 *	15.75 *	16.60 *	16.71 *	16.03 *	13.03 *	13.14 *	7.71 *	1.83

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LUMENS TABULATION - (Cont.)

-25.5	16.73 *	16.00 *	17.57 *	18.42 *	18.41 *	17.44 *	14.00 *	13.98 *	8.10 *	1.91
-29	17.78 *	16.98 *	18.63 *	19.42 *	19.18 *	17.88 *	14.12 *	13.94 *	8.00 *	1.86
-33	17.64 *	16.78 *	18.35 *	19.00 *	18.54 *	16.91 *	13.04 *	12.76 *	7.31 *	1.71
-37.5	15.66 *	14.87 *	16.15 *	16.61 *	15.96 *	14.24 *	10.84 *	10.54 *	6.10 *	1.48
-42.5	10.84 *	10.34 *	11.17 *	11.34 *	10.67 *	9.48 *	7.33 *	7.23 *	4.32	1.09
-47.5	8.53 *	8.27 *	9.01 *	9.05 *	8.43 *	7.59 *	6.12 *	6.36	3.99	1.04
-55	3.91	3.86	4.30	4.42	4.17	3.80	3.25	3.66	2.41	0.65
-65	1.16	1.11	1.22	1.27	1.25	1.15	0.97	1.13	0.77	0.22
-75	0.28	0.26	0.28	0.29	0.29	0.28	0.23	0.27	0.20	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	470.58	450.23	495.26	519.95	519.26	491.70	399.08	414.41	255.13	62.78

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	4.69	
75	0.03	0.00	22.52	
65	0.08	0.00	83.07	
55	0.12	0.00	166.98	
47.5	0.12	0.00	197.57	
42.5	0.16	0.00	270.60	
37.5	0.18	0.00	294.53	
33	0.19	0.00	293.20	
29	0.19	0.00	274.77	
25.5	0.18	0.00	245.81	
22.5	0.20	0.00	253.05	
19.5	0.18	0.00	215.28	
17	0.15	0.00	174.64	
15	0.15	0.00	176.46	

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LUMENS TABULATION - (Cont.)

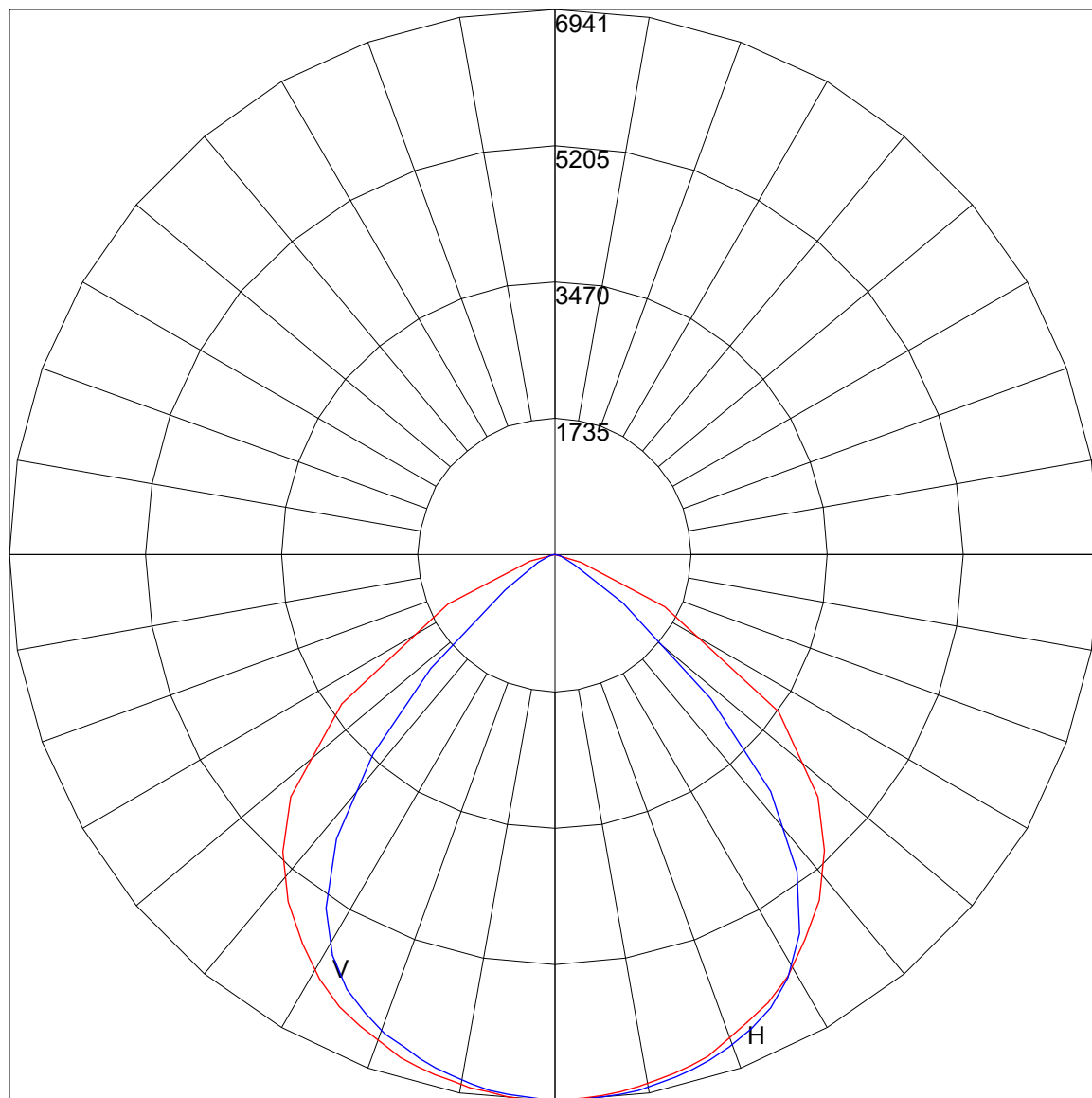
13	0.16	0.00	178.00
11	0.16	0.00	179.27
9	0.17	0.00	180.31
7	0.17	0.00	181.10
5	0.17	0.00	181.68
3	0.17	0.00	182.01
1	0.09	0.00	91.05
0	0.09	0.00	91.02
-1	0.17	0.00	181.72
-3	0.17	0.00	181.06
-5	0.17	0.00	180.11
-7	0.16	0.00	178.91
-9	0.16	0.00	177.41
-11	0.15	0.00	175.67
-13	0.15	0.00	173.63
-15	0.14	0.00	171.29
-17	0.17	0.00	210.38
-19.5	0.19	0.00	246.07
-22.5	0.17	0.00	237.48
-25.5	0.18	0.00	263.01
-29	0.18	0.00	276.50
-33	0.17	0.00	270.50
-37.5	0.15	0.00	237.71
-42.5	0.11	0.00	164.39
-47.5	0.11	0.00	131.78
-55	0.07	0.00	63.68
-65	0.02	0.00	18.98
-75	0.01	0.00	4.52

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LUMENS TABULATION - (Cont.)

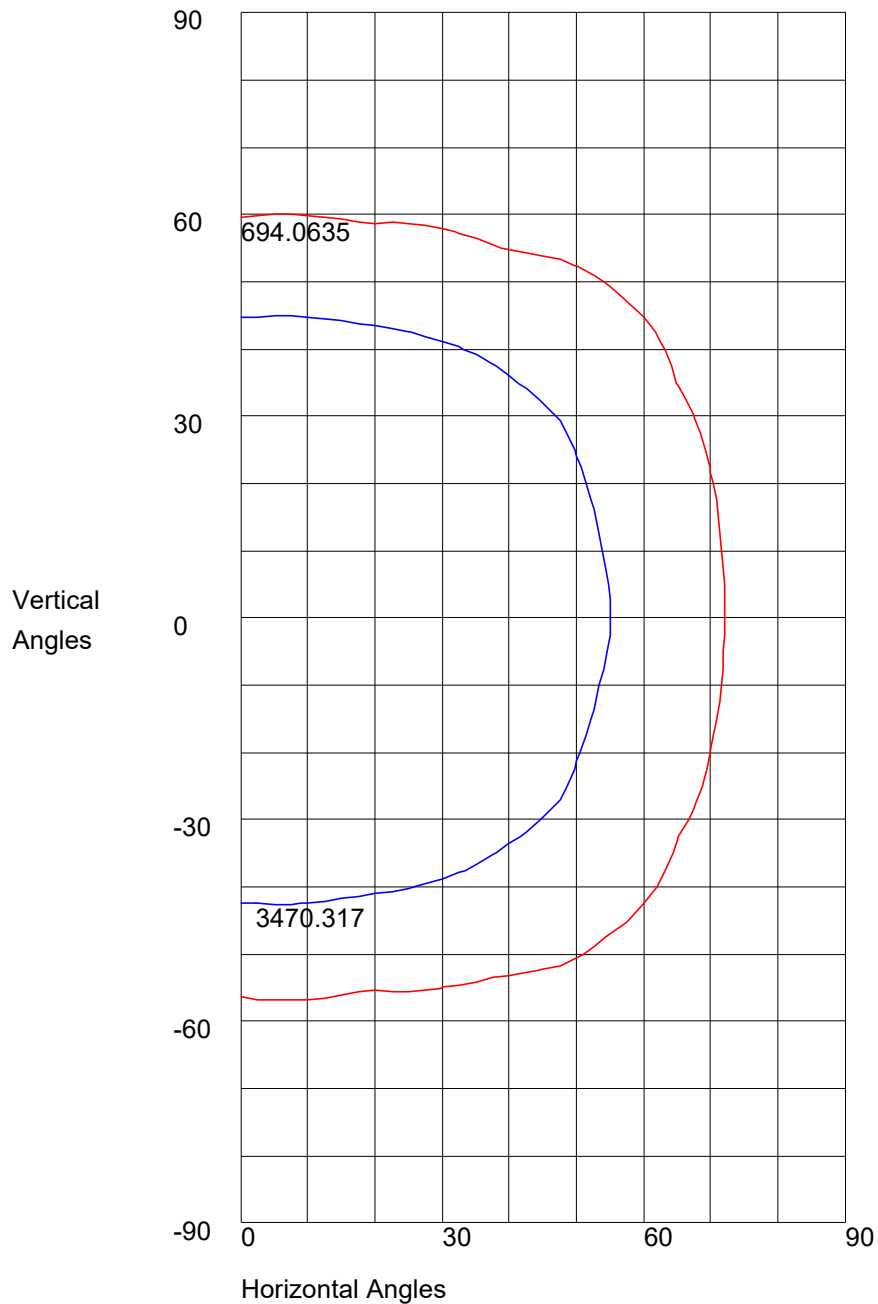
-85	0.00	0.00	0.23
-90			
Total	5.90	0.00	7482.78

AXIAL CANDELA DISPLAY



Maximum Candela = 6940.635 Located At Horizontal Angle = -1, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 6940.635 Located At Horizontal Angle = -1, Vertical Angle = 3
50% Maximum Candela = 3470.3175
10% Maximum Candela = 694.0635