



IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL140 76 UV 8SEL [140W, 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 [140W, 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	9238.17
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	19848.78 (1 lamp)
Total Lamp Lumens	19848.78
Beam Lumens	15895
Beam Efficiency	80 %
Field Lumens	19241
Field Efficiency	97 %
Spill Lumens	678
Luminaire Lumens	19920
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	466.212	75	91.918
65	2058.484	65	378.355
55	4639.94	55	1404.588
47.5	6054.573	47.5	3586.849
42.5	6775.867	42.5	5423.816
37.5	7368.479	37.5	6745.357
33	7776.741	33	7620.199
29	8150.632	29	8169.895
25.5	8390.629	25.5	8491.714
22.5	8557.389	22.5	8684.824
19.5	8727.645	19.5	8838.423
17	8865.829	17	8942.545
15	8951.36	15	9011.073
13	9000.915	13	9071.345
11	9052.675	11	9122.544
9	9100.641	9	9169.314
7	9147.803	7	9205.2
5	9195.557	5	9217.281
3	9212.147	3	9225.548
1	9212.147	1	9229.374
0	9223.736	0	9223.736
-1	9227.528	-1	9214.071
-3	9222.539	-3	9189.26
-5	9197.761	-5	9164.269
-7	9158.989	-7	9119.323
-9	9133.205	-9	9056.433
-11	9079.857	-11	8992.324
-13	9028.3	-13	8913.919
-15	8968.945	-15	8818.366
-17	8897.207	-17	8720.597
-19.5	8767.015	-19.5	8590.49
-22.5	8634.424	-22.5	8395.054
-25.5	8468.867	-25.5	8154.38
-29	8216.575	-29	7756.862
-33	7855.671	-33	7117.262
-37.5	7403.649	-37.5	6064.624
-42.5	6812.038	-42.5	4562.078
-47.5	6061.263	-47.5	2845.146
-55	4389.747	-55	1016.344
-65	1991.948	-65	319.895
-75	417.854	-75	86.873
-85	0	-85	9.475
-90	0	-90	0

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 9959.77

Total Field Lumens (one side of beam only) = 9620.56

* 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	0.14	0.28	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.33
65	0.72	1.45	1.45	1.44	1.43	1.41	1.39	1.36	1.32	1.58
55	2.73	5.54	5.60	5.58	5.55	5.46	5.33	5.17	4.96	5.93
47.5	5.73 *	11.59 *	11.68 *	11.67 *	11.57 *	11.37 *	11.09 *	10.75 *	10.33 *	12.46 *
42.5	6.88 *	13.85 *	13.90 *	13.86 *	13.72 *	13.50 *	13.23 *	12.87 *	12.46 *	15.09 *
37.5	9.28 *	18.61 *	18.62 *	18.55 *	18.38 *	18.11 *	17.79 *	17.39 *	16.95 *	20.56 *
33	9.85 *	19.73 *	19.70 *	19.61 *	19.45 *	19.20 *	18.88 *	18.51 *	18.10 *	22.01 *
29	9.62 *	19.25 *	19.19 *	19.09 *	18.94 *	18.72 *	18.43 *	18.10 *	17.73 *	21.58 *
25.5	8.88 *	17.75 *	17.70 *	17.60 *	17.45 *	17.26 *	17.02 *	16.73 *	16.40 *	19.98 *
22.5	7.85 *	15.68 *	15.64 *	15.55 *	15.43 *	15.26 *	15.05 *	14.80 *	14.52 *	17.71 *
19.5	8.01 *	16.00 *	15.95 *	15.87 *	15.75 *	15.58 *	15.37 *	15.12 *	14.84 *	18.11 *
17	6.77 *	13.53 *	13.49 *	13.42 *	13.31 *	13.17 *	12.99 *	12.79 *	12.56 *	15.33 *
15	5.47 *	10.93 *	10.90 *	10.84 *	10.75 *	10.63 *	10.50 *	10.34 *	10.15 *	12.39 *
13	5.51 *	11.01 *	10.98 *	10.92 *	10.83 *	10.71 *	10.57 *	10.41 *	10.22 *	12.48 *
11	5.54 *	11.08 *	11.05 *	10.99 *	10.90 *	10.78 *	10.64 *	10.47 *	10.28 *	12.55 *
9	5.57 *	11.14 *	11.11 *	11.04 *	10.95 *	10.83 *	10.69 *	10.52 *	10.33 *	12.61 *
7	5.60 *	11.18 *	11.15 *	11.08 *	10.99 *	10.87 *	10.73 *	10.56 *	10.37 *	12.66 *
5	5.61 *	11.21 *	11.17 *	11.10 *	11.01 *	10.89 *	10.75 *	10.59 *	10.40 *	12.70 *
3	5.62 *	11.23 *	11.18 *	11.12 *	11.02 *	10.91 *	10.77 *	10.61 *	10.43 *	12.73 *
1	5.62 *	11.23 *	11.19 *	11.12 *	11.03 *	10.91 *	10.78 *	10.62 *	10.44 *	12.74 *
0	2.81 *	5.61 *	5.59 *	5.56 *	5.51 *	5.46 *	5.39 *	5.31 *	5.22 *	6.37 *
-1	2.81 *	5.61 *	5.59 *	5.56 *	5.51 *	5.45 *	5.39 *	5.31 *	5.22 *	6.37 *
-3	5.61 *	11.20 *	11.17 *	11.11 *	11.02 *	10.90 *	10.77 *	10.61 *	10.43 *	12.73 *
	5.59 *	11.17 *	11.13 *	11.07 *	10.99 *	10.88 *	10.75 *	10.59 *	10.41 *	12.71 *

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LUMENS TABULATION - (Cont.)

-5	5.57 *	11.13 *	11.09 *	11.02 *	10.94 *	10.84 *	10.71 *	10.55 *	10.37 *	12.67 *
-7	5.54 *	11.07 *	11.03 *	10.97 *	10.88 *	10.77 *	10.64 *	10.49 *	10.32 *	12.61 *
-9	5.50 *	11.00 *	10.96 *	10.90 *	10.81 *	10.70 *	10.57 *	10.42 *	10.24 *	12.52 *
-11	5.46 *	10.91 *	10.88 *	10.82 *	10.73 *	10.62 *	10.48 *	10.33 *	10.16 *	12.41 *
-13	5.40 *	10.80 *	10.78 *	10.72 *	10.64 *	10.53 *	10.39 *	10.24 *	10.06 *	12.29 *
-15	5.34 *	10.69 *	10.67 *	10.61 *	10.53 *	10.42 *	10.29 *	10.13 *	9.95 *	12.16 *
-17	6.59 *	13.19 *	13.16 *	13.10 *	13.00 *	12.87 *	12.70 *	12.50 *	12.28 *	14.99 *
-19.5	7.76 *	15.53 *	15.50 *	15.43 *	15.32 *	15.16 *	14.97 *	14.73 *	14.45 *	17.63 *
-22.5	7.57 *	15.14 *	15.11 *	15.04 *	14.94 *	14.79 *	14.58 *	14.34 *	14.07 *	17.16 *
-25.5	8.49 *	16.99 *	16.96 *	16.89 *	16.76 *	16.59 *	16.35 *	16.07 *	15.76 *	19.21 *
-29	9.07 *	18.17 *	18.15 *	18.07 *	17.94 *	17.74 *	17.47 *	17.17 *	16.82 *	20.47 *
-33	9.05 *	18.16 *	18.17 *	18.11 *	17.97 *	17.73 *	17.42 *	17.08 *	16.73 *	20.35 *
-37.5	8.11 *	16.32 *	16.36 *	16.33 *	16.19 *	15.95 *	15.67 *	15.30 *	14.90 *	18.08 *
-42.5	5.66 *	11.43 *	11.49 *	11.48 *	11.39 *	11.23 *	11.01 *	10.69 *	10.29 *	12.43 *
-47.5	4.43 *	8.99 *	9.07 *	9.08 *	9.01 *	8.88 *	8.67 *	8.39 *	8.02 *	9.67 *
-55	2.05	4.15	4.19	4.19	4.16	4.09	4.00	3.87	3.72	4.44
-65	0.62	1.25	1.25	1.24	1.23	1.21	1.18	1.15	1.11	1.34
-75	0.15	0.29	0.30	0.29	0.29	0.29	0.28	0.27	0.27	0.32
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
-90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Total	240.20	481.07	480.55	478.34	474.51	468.99	461.97	453.53	443.88	540.46

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	0.02	0.02	0.02	0.02	0.02	0.01
85	0.38	0.36	0.39	0.42	0.44	0.42	0.34	0.37	0.29	0.09
75	1.82	1.76	1.95	2.04	2.02	1.87	1.55	1.79	1.25	0.35
65	6.89	6.70	7.36	7.56	7.21	6.56	5.42	5.96	3.92	1.04
55	14.46 *	13.82 *	15.05 *	15.35 *	14.40 *	12.70 *	9.92 *	10.18 *	6.35	1.62
47.5	17.36 *	16.37 *	17.74 *	18.25 *	17.35 *	15.25 *	11.48 *	11.29 *	6.75	1.64

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LUMENS TABULATION - (Cont.)

42.5	23.63 *	22.33 *	24.28 *	25.16 *	24.39 *	21.84 *	16.51 *	16.06 *	9.33 *	2.20
37.5	25.39 *	24.15 *	26.43 *	27.50 *	26.99 *	24.78 *	19.22 *	18.89 *	10.89 *	2.51
33	24.96 *	23.82 *	26.13 *	27.30 *	27.09 *	25.40 *	20.17 *	20.11 *	11.67 *	2.70
29	23.15 *	22.13 *	24.30 *	25.49 *	25.54 *	24.27 *	19.62 *	19.83 *	11.62 *	2.72
25.5	20.53 *	19.63 *	21.60 *	22.76 *	22.94 *	22.02 *	18.00 *	18.42 *	10.94 *	2.59
22.5	20.99 *	20.09 *	22.14 *	23.41 *	23.70 *	22.85 *	18.77 *	19.45 *	11.76 *	2.81 *
19.5	17.77 *	17.01 *	18.77 *	19.89 *	20.20 *	19.50 *	16.07 *	16.85 *	10.37 *	2.51 *
17	14.36 *	13.76 *	15.19 *	16.12 *	16.39 *	15.85 *	13.11 *	13.85 *	8.62 *	2.11 *
15	14.47 *	13.86 *	15.32 *	16.27 *	16.55 *	16.03 *	13.30 *	14.14 *	8.89 *	2.20 *
13	14.56 *	13.95 *	15.43 *	16.39 *	16.69 *	16.18 *	13.45 *	14.38 *	9.13 *	2.28 *
11	14.64 *	14.03 *	15.52 *	16.49 *	16.80 *	16.29 *	13.57 *	14.59 *	9.33 *	2.35 *
9	14.70 *	14.10 *	15.60 *	16.57 *	16.89 *	16.39 *	13.67 *	14.76 *	9.52 *	2.41 *
7	14.74 *	14.15 *	15.66 *	16.63 *	16.95 *	16.46 *	13.74 *	14.90 *	9.67 *	2.46 *
5	14.78 *	14.19 *	15.71 *	16.68 *	16.99 *	16.51 *	13.80 *	15.01 *	9.81 *	2.51 *
3	14.79 *	14.21 *	15.74 *	16.70 *	17.01 *	16.53 *	13.83 *	15.08 *	9.90 *	2.55 *
1	7.40 *	7.11 *	7.87 *	8.35 *	8.51 *	8.27 *	6.92 *	7.55 *	4.97 *	1.28 *
0	7.40 *	7.10 *	7.87 *	8.35 *	8.50 *	8.27 *	6.91 *	7.55 *	4.96 *	1.28 *
-1	14.78 *	14.19 *	15.72 *	16.68 *	16.99 *	16.51 *	13.80 *	15.04 *	9.87 *	2.53 *
-3	14.75 *	14.16 *	15.67 *	16.63 *	16.94 *	16.45 *	13.74 *	14.93 *	9.73 *	2.49 *
-5	14.70 *	14.10 *	15.61 *	16.56 *	16.87 *	16.38 *	13.66 *	14.77 *	9.55 *	2.43 *
-7	14.63 *	14.03 *	15.52 *	16.48 *	16.78 *	16.27 *	13.55 *	14.59 *	9.36 *	2.36 *
-9	14.54 *	13.94 *	15.42 *	16.37 *	16.67 *	16.15 *	13.42 *	14.37 *	9.14 *	2.29 *
-11	14.42 *	13.83 *	15.30 *	16.24 *	16.53 *	16.00 *	13.28 *	14.12 *	8.89 *	2.21 *
-13	14.28 *	13.70 *	15.15 *	16.09 *	16.37 *	15.82 *	13.09 *	13.82 *	8.61 *	2.13 *
-15	14.12 *	13.54 *	14.98 *	15.90 *	16.17 *	15.61 *	12.86 *	13.47 *	8.30 *	2.04 *
-17	17.40 *	16.68 *	18.43 *	19.54 *	19.86 *	19.16 *	15.73 *	16.30 *	9.91 *	2.41 *
-19.5	20.46 *	19.60 *	21.63 *	22.87 *	23.16 *	22.34 *	18.27 *	18.65 *	11.13 *	2.68
-22.5	19.90 *	19.05 *	20.97 *	22.09 *	22.24 *	21.33 *	17.35 *	17.49 *	10.26 *	2.44

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LUMENS TABULATION - (Cont.)

-25.5	22.27 *	21.30 *	23.39 *	24.51 *	24.50 *	23.21 *	18.64 *	18.61 *	10.79 *	2.54
-29	23.67 *	22.60 *	24.80 *	25.85 *	25.53 *	23.80 *	18.79 *	18.55 *	10.65 *	2.48
-33	23.48 *	22.34 *	24.42 *	25.30 *	24.68 *	22.50 *	17.36 *	16.98 *	9.73 *	2.27
-37.5	20.84 *	19.79 *	21.50 *	22.11 *	21.24 *	18.96 *	14.43 *	14.03 *	8.11 *	1.97
-42.5	14.42 *	13.76 *	14.87 *	15.10 *	14.21 *	12.62 *	9.76 *	9.62 *	5.74	1.45
-47.5	11.36 *	11.01 *	11.99 *	12.05 *	11.22 *	10.11 *	8.14 *	8.46	5.32	1.38
-55	5.20	5.14	5.73	5.88	5.55	5.06	4.32	4.87	3.20	0.86
-65	1.54	1.48	1.62	1.69	1.67	1.54	1.30	1.51	1.03	0.29
-75	0.37	0.35	0.38	0.39	0.38	0.37	0.31	0.35	0.27	0.09
-85	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
-90	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
Total	626.36	599.26	659.21	692.06	691.15	654.47	531.18	551.59	339.58	83.56

Vert. Angles	Horizontal Angles		
	<u>75</u>	<u>85</u>	<u>90</u>
90			
	0.00	0.00	0.18
85			
	0.01	0.00	6.24
75			
	0.03	0.00	29.98
65			
	0.10	0.00	110.56
55			
	0.16	0.00	222.25
47.5			
	0.16	0.00	262.98
42.5			
	0.21	0.00	360.17
37.5			
	0.24	0.00	392.03
33			
	0.25	0.00	390.26
29			
	0.25	0.00	365.72
25.5			
	0.24	0.00	327.19
22.5			
	0.26	0.00	336.82
19.5			
	0.23	0.00	286.54
17			
	0.20	0.00	232.45
15			
	0.20	0.00	234.88

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LUMENS TABULATION - (Cont.)

13	0.21	0.00	236.92
11	0.22	0.00	238.61
9	0.22	0.00	240.00
7	0.23	0.00	241.05
5	0.23	0.00	241.82
3	0.23	0.00	242.26
1	0.12	0.00	121.19
0	0.12	0.00	121.14
-1	0.23	0.00	241.88
-3	0.23	0.00	241.00
-5	0.22	0.00	239.74
-7	0.22	0.00	238.13
-9	0.21	0.00	236.14
-11	0.21	0.00	233.82
-13	0.20	0.00	231.11
-15	0.19	0.00	227.99
-17	0.23	0.00	280.02
-19.5	0.25	0.00	327.53
-22.5	0.23	0.00	316.09
-25.5	0.24	0.00	350.07
-29	0.24	0.00	368.03
-33	0.22	0.00	360.05
-37.5	0.20	0.00	316.40
-42.5	0.15	0.00	218.81
-47.5	0.14	0.00	175.40
-55	0.09	0.00	84.76
-65	0.03	0.00	25.27
-75	0.01	0.00	6.02

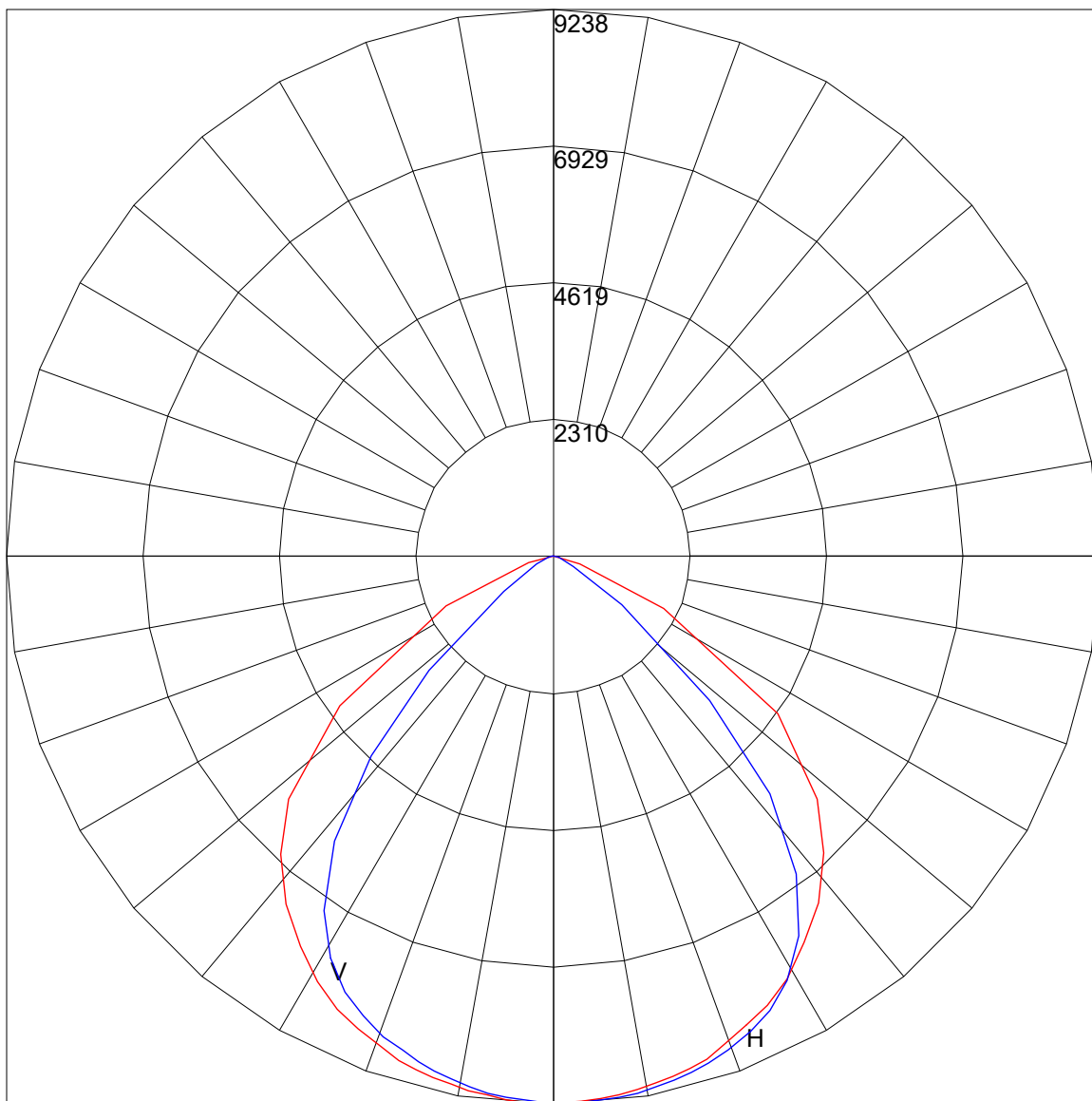
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LUMENS TABULATION - (Cont.)

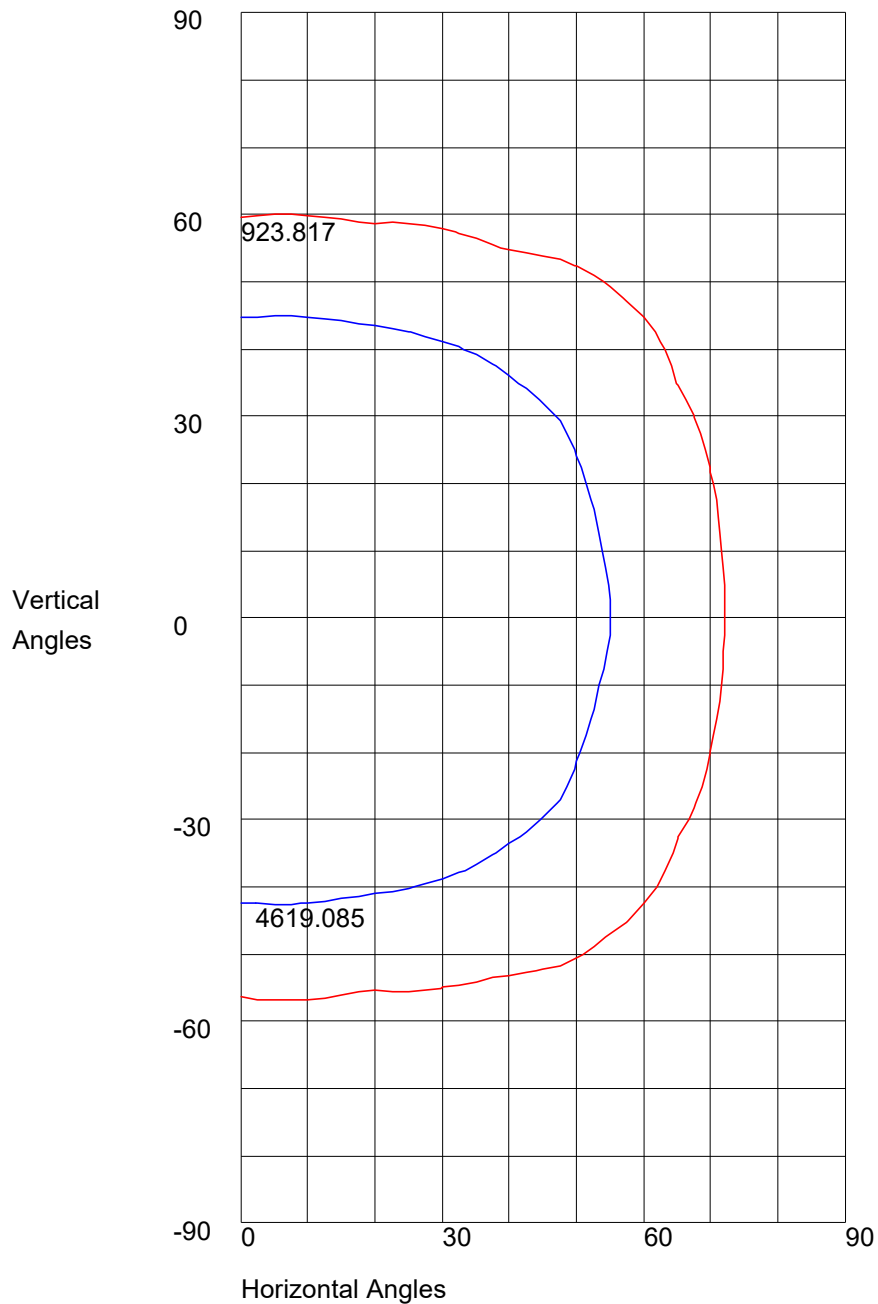
-85	0.00	0.00	0.31
-90			
Total	7.86	0.01	9959.78

AXIAL CANDELA DISPLAY



Maximum Candela = 9238.17 Located At Horizontal Angle = -1, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 9238.17 Located At Horizontal Angle = -1, Vertical Angle = 3
50% Maximum Candela = 4619.085
10% Maximum Candela = 923.817