



IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [290W, 3000K].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, 3000K]
[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	16808.464
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	35515.4 (1 lamp)
Total Lamp Lumens	35515.4
Beam Lumens	27800
Beam Efficiency	78 %
Field Lumens	34352
Field Efficiency	97 %
Spill Lumens	1283
Luminaire Lumens	35635
Total Efficiency	100 %
Total Luminaire Watts	291.7
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.104	90	0
85	33.6	85	14.35
75	1027.3	75	230.44
65	3633.04	65	884.51
55	7555.72	55	2459.56
47.5	10330.225	47.5	5423.66
42.5	12293.495	42.5	8308.215
37.5	13434.16	37.5	10829.08
33	14285.74	33	12614.01
29	14911.4	29	13909.75
25.5	15347.225	25.5	14789.8
22.5	15686.12	22.5	15362.015
19.5	15962.84	19.5	15808.545
17	16173.89	17	16108.22
15	16319.5	15	16290.17
13	16456.221	13	16435.26
11	16549.68	11	16543.5
9	16623.83	9	16636.23
7	16682.15	7	16716.52
5	16724.24	5	16758.43
3	16764.02	3	16784.029
1	16800.711	1	16802.65
0	16800.711	0	16800.711
-1	16786.42	-1	16790.619
-3	16718.449	-3	16758.811
-5	16675.199	-5	16704.881
-7	16614.18	-7	16630.41
-9	16526.119	-9	16550.49
-11	16423.779	-11	16475.221
-13	16326.45	-13	16361.17
-15	16199.38	-15	16247.5
-17	16057.65	-17	16104.35
-19.5	15833.07	-19.5	15895.445
-22.5	15491.28	-22.5	15563.94
-25.5	15149.49	-25.5	15104.805
-29	14669.63	-29	14442.39
-33	14057.88	-33	13375.93
-37.5	13222.515	-37.5	11609.63
-42.5	12092.86	-42.5	8928.545
-47.5	10675.295	-47.5	5910.91
-55	7529.46	-55	2501.86
-65	3418.3	-65	841.46
-75	942.34	-75	228.11
-85	37.47	-85	27.55
-90	0	-90	0

IES FLOOD REPORT
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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 17817.57

Total Field Lumens (one side of beam only) = 17175.87

* 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	0.02	0.02	0.02	0.02	0.02	0.02	0.03
75	0.37	0.75	0.75	0.74	0.72	0.71	0.69	0.67	0.65	0.78
65	1.70	3.41	3.40	3.37	3.32	3.26	3.18	3.08	2.97	3.55
55	5.11	10.29 *	10.30 *	10.22 *	10.11	9.93	9.70	9.42	9.09	10.89
47.5	9.04 *	18.22 *	18.29 *	18.21 *	18.03 *	17.74 *	17.34 *	16.83 *	16.23 *	19.59 *
42.5	10.49 *	21.10 *	21.16 *	21.07 *	20.86 *	20.52 *	20.11 *	19.55 *	18.88 *	22.80 *
37.5	14.60 *	29.29 *	29.29 *	29.15 *	28.84 *	28.36 *	27.82 *	27.16 *	26.44 *	32.05 *
33	16.09 *	32.22 *	32.18 *	32.00 *	31.68 *	31.20 *	30.61 *	30.01 *	29.41 *	35.77 *
29	16.17 *	32.37 *	32.29 *	32.09 *	31.78 *	31.35 *	30.83 *	30.30 *	29.72 *	36.18 *
25.5	15.31 *	30.60 *	30.51 *	30.31 *	30.01 *	29.63 *	29.20 *	28.73 *	28.18 *	34.34 *
22.5	13.78 *	27.54 *	27.45 *	27.27 *	27.01 *	26.69 *	26.33 *	25.91 *	25.43 *	31.01 *
19.5	14.24 *	28.46 *	28.36 *	28.19 *	27.93 *	27.62 *	27.26 *	26.83 *	26.35 *	32.15 *
17	12.15 *	24.28 *	24.19 *	24.03 *	23.83 *	23.58 *	23.27 *	22.92 *	22.50 *	27.45 *
15	9.87 *	19.71 *	19.63 *	19.51 *	19.35 *	19.15 *	18.91 *	18.63 *	18.28 *	22.29 *
13	9.97 *	19.91 *	19.83 *	19.72 *	19.56 *	19.36 *	19.12 *	18.82 *	18.47 *	22.52 *
11	10.05 *	20.07 *	20.00 *	19.89 *	19.73 *	19.53 *	19.27 *	18.97 *	18.62 *	22.71 *
9	10.11 *	20.19 *	20.12 *	20.02 *	19.86 *	19.66 *	19.39 *	19.08 *	18.73 *	22.86 *
7	10.16 *	20.29 *	20.22 *	20.11 *	19.96 *	19.75 *	19.48 *	19.17 *	18.82 *	22.97 *
5	10.20 *	20.36 *	20.30 *	20.19 *	20.02 *	19.81 *	19.54 *	19.23 *	18.89 *	23.06 *
3	10.22 *	20.41 *	20.35 *	20.23 *	20.06 *	19.84 *	19.58 *	19.28 *	18.93 *	23.11 *
1	10.23 *	20.44 *	20.36 *	20.24 *	20.07 *	19.85 *	19.60 *	19.30 *	18.96 *	23.14 *
0	5.12 *	10.21 *	10.17 *	10.11 *	10.03 *	9.92 *	9.80 *	9.65 *	9.48 *	11.58 *
-1	5.12 *	10.21 *	10.17 *	10.11 *	10.03 *	9.92 *	9.80 *	9.65 *	9.48 *	11.58 *
-3	10.22 *	20.42 *	20.35 *	20.24 *	20.07 *	19.85 *	19.60 *	19.30 *	18.96 *	23.15 *
	10.20 *	20.38 *	20.31 *	20.20 *	20.04 *	19.84 *	19.58 *	19.28 *	18.93 *	23.12 *

IES FLOOD REPORT
PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [290W, 3000K].IES

LUMENS TABULATION - (Cont.)

-5	10.16 *	20.31 *	20.25 *	20.12 *	19.97 *	19.77 *	19.52 *	19.23 *	18.89 *	23.06 *
-7	10.11 *	20.22 *	20.17 *	20.04 *	19.87 *	19.66 *	19.42 *	19.13 *	18.80 *	22.97 *
-9	10.06 *	20.12 *	20.06 *	19.94 *	19.76 *	19.54 *	19.30 *	19.01 *	18.68 *	22.83 *
-11	10.00 *	19.99 *	19.94 *	19.82 *	19.64 *	19.42 *	19.16 *	18.86 *	18.54 *	22.65 *
-13	9.93 *	19.85 *	19.79 *	19.67 *	19.50 *	19.27 *	19.01 *	18.71 *	18.38 *	22.45 *
-15	9.85 *	19.69 *	19.62 *	19.50 *	19.33 *	19.11 *	18.84 *	18.54 *	18.21 *	22.23 *
-17	12.18 *	24.34 *	24.25 *	24.10 *	23.89 *	23.62 *	23.29 *	22.90 *	22.48 *	27.43 *
-19.5	14.37 *	28.71 *	28.60 *	28.42 *	28.18 *	27.86 *	27.46 *	27.00 *	26.49 *	32.30 *
-22.5	14.01 *	28.00 *	27.90 *	27.73 *	27.50 *	27.19 *	26.80 *	26.34 *	25.82 *	31.46 *
-25.5	15.75 *	31.49 *	31.39 *	31.21 *	30.94 *	30.58 *	30.13 *	29.60 *	29.00 *	35.31 *
-29	16.96 *	33.91 *	33.82 *	33.62 *	33.32 *	32.91 *	32.38 *	31.77 *	31.09 *	37.80 *
-33	17.14 *	34.32 *	34.26 *	34.08 *	33.77 *	33.29 *	32.67 *	31.98 *	31.25 *	37.95 *
-37.5	15.67 *	31.45 *	31.46 *	31.33 *	31.02 *	30.52 *	29.91 *	29.13 *	28.32 *	34.36 *
-42.5	11.34 *	22.83 *	22.91 *	22.85 *	22.64 *	22.29 *	21.82 *	21.15 *	20.38 *	24.66 *
-47.5	9.65 *	19.50 *	19.64 *	19.62 *	19.48 *	19.20 *	18.78 *	18.20 *	17.47 *	21.05 *
-55	5.11	10.34 *	10.41 *	10.38 *	10.30 *	10.15 *	9.94	9.64	9.28	11.13
-65	1.63	3.27	3.26	3.23	3.19	3.14	3.07	2.98	2.89	3.46
-75	0.39	0.78	0.78	0.77	0.76	0.75	0.73	0.71	0.69	0.83
-85	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05
-90										
Total	434.86	870.32	868.54	863.73	856.04	845.39	832.28	816.75	799.13	972.65

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.02
85	0.88	0.82	0.88	0.90	0.88	0.80	0.66	0.75	0.53	0.19
75	4.04	3.81	4.11	4.18	4.02	3.62	3.01	3.52	2.46	0.72
65	12.59	12.11	13.27	13.61	12.86	11.65	9.81	11.05	7.57	2.18
55	22.76 *	21.80 *	23.72 *	24.06 *	22.65 *	20.48 *	16.48 *	17.55	11.74	3.36
47.5	26.29 *	24.94 *	27.02 *	27.54 *	26.11 *	23.32 *	18.05 *	18.39 *	11.91	3.36

IES FLOOD REPORT
PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [290W, 3000K].IES

LUMENS TABULATION - (Cont.)

42.5	36.85 *	34.87 *	37.80 *	38.84 *	37.34 *	33.38 *	25.42 *	25.31 *	15.89 *	4.39
37.5	41.25 *	39.14 *	42.59 *	43.97 *	42.82 *	38.88 *	29.77 *	29.38 *	18.08 *	4.90
33	41.82 *	39.82 *	43.49 *	45.21 *	44.57 *	41.10 *	31.91 *	31.50 *	19.14 *	5.16
29	39.77 *	37.93 *	41.50 *	43.38 *	43.23 *	40.37 *	31.76 *	31.51 *	19.05 *	5.14
25.5	35.92 *	34.27 *	37.58 *	39.48 *	39.59 *	37.50 *	29.78 *	29.52 *	17.93 *	4.86
22.5	37.22 *	35.52 *	39.06 *	41.18 *	41.54 *	39.65 *	31.59 *	31.48 *	19.34 *	5.25 *
19.5	31.78 *	30.36 *	33.45 *	35.38 *	35.83 *	34.20 *	27.34 *	27.59 *	17.12 *	4.65 *
17	25.82 *	24.69 *	27.24 *	28.88 *	29.26 *	27.95 *	22.46 *	22.84 *	14.28 *	3.90 *
15	26.10 *	24.98 *	27.60 *	29.27 *	29.65 *	28.39 *	22.93 *	23.45 *	14.75 *	4.04 *
13	26.33 *	25.22 *	27.87 *	29.56 *	29.96 *	28.76 *	23.32 *	23.99 *	15.18 *	4.17 *
11	26.51 *	25.40 *	28.07 *	29.78 *	30.22 *	29.04 *	23.63 *	24.46 *	15.57 *	4.28 *
9	26.65 *	25.53 *	28.22 *	29.95 *	30.43 *	29.30 *	23.90 *	24.87 *	15.92 *	4.39 *
7	26.75 *	25.63 *	28.33 *	30.08 *	30.57 *	29.49 *	24.11 *	25.20 *	16.22 *	4.49 *
5	26.82 *	25.70 *	28.41 *	30.17 *	30.68 *	29.62 *	24.26 *	25.48 *	16.50 *	4.58 *
3	26.85 *	25.73 *	28.45 *	30.23 *	30.75 *	29.71 *	24.37 *	25.67 *	16.71 *	4.64 *
1	13.43 *	12.87 *	14.23 *	15.12 *	15.39 *	14.88 *	12.21 *	12.88 *	8.40 *	2.34 *
0	13.43 *	12.87 *	14.23 *	15.12 *	15.39 *	14.88 *	12.22 *	12.89 *	8.41 *	2.34 *
-1	26.85 *	25.73 *	28.46 *	30.23 *	30.76 *	29.74 *	24.40 *	25.72 *	16.74 *	4.65 *
-3	26.82 *	25.70 *	28.41 *	30.18 *	30.69 *	29.67 *	24.32 *	25.56 *	16.57 *	4.60 *
-5	26.75 *	25.63 *	28.34 *	30.09 *	30.60 *	29.56 *	24.19 *	25.33 *	16.33 *	4.52 *
-7	26.65 *	25.54 *	28.23 *	29.97 *	30.46 *	29.39 *	24.01 *	25.04 *	16.07 *	4.43 *
-9	26.50 *	25.40 *	28.08 *	29.80 *	30.27 *	29.16 *	23.78 *	24.69 *	15.75 *	4.33 *
-11	26.31 *	25.22 *	27.89 *	29.58 *	30.02 *	28.91 *	23.52 *	24.28 *	15.40 *	4.21 *
-13	26.07 *	25.00 *	27.64 *	29.32 *	29.75 *	28.59 *	23.17 *	23.79 *	15.00 *	4.09 *
-15	25.81 *	24.74 *	27.33 *	28.99 *	29.40 *	28.18 *	22.75 *	23.23 *	14.54 *	3.95 *
-17	31.83 *	30.48 *	33.65 *	35.64 *	36.12 *	34.57 *	27.77 *	28.14 *	17.47 *	4.73 *
-19.5	37.44 *	35.82 *	39.50 *	41.72 *	42.13 *	40.25 *	32.19 *	32.27 *	19.84 *	5.34 *
-22.5	36.44 *	34.83 *	38.31 *	40.31 *	40.47 *	38.30 *	30.47 *	30.40 *	18.48 *	4.96

IES FLOOD REPORT
PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [290W, 3000K].IES

LUMENS TABULATION - (Cont.)

-25.5	40.86 *	39.00 *	42.77 *	44.78 *	44.61 *	41.58 *	32.72 *	32.61 *	19.73 *	5.26
-29	43.64 *	41.55 *	45.48 *	47.32 *	46.50 *	42.73 *	33.18 *	32.89 *	19.98 *	5.32
-33	43.71 *	41.42 *	45.12 *	46.64 *	45.21 *	40.81 *	31.22 *	30.95 *	19.04 *	5.09
-37.5	39.59 *	37.42 *	40.50 *	41.56 *	39.82 *	35.39 *	26.86 *	26.86 *	16.87 *	4.58
-42.5	28.53 *	27.04 *	29.14 *	29.64 *	28.09 *	24.93 *	19.19 *	19.57 *	12.63	3.51
-47.5	24.51 *	23.42 *	25.31 *	25.70 *	24.35 *	21.95 *	17.51 *	18.62 *	12.46	3.51
-55	12.95	12.54	13.71	14.08	13.48	12.36	10.34	11.70	8.10	2.30
-65	3.97	3.79	4.15	4.30	4.18	3.77	3.17	3.74	2.64	0.80
-75	0.93	0.88	0.95	0.99	0.97	0.89	0.72	0.82	0.61	0.23
-85	0.05	0.05	0.05	0.05	0.06	0.06	0.05	0.05	0.05	0.02
-90										
Total	1126.07	1075.26	1180.18	1236.83	1231.67	1157.79	924.56	945.57	597.05	163.76

Vert. Angles	Horizontal Angles			
	75	85	90	Total
90	0.00	0.00		0.56
85	0.04	0.00		14.16
75	0.10	0.00		64.83
65	0.26	0.00		202.03
55	0.40	0.00		354.52
47.5	0.40	0.00		403.86
42.5	0.52	0.00		563.64
37.5	0.57	0.00		632.53
33	0.60	0.00		647.41
29	0.60	0.00		621.04
25.5	0.56	0.00		565.43
22.5	0.61	0.00		589.83
19.5	0.54	0.00		506.45
17	0.45	0.00		413.11
15	0.47	0.00		418.90

IES FLOOD REPORT
PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [290W, 3000K].IES

LUMENS TABULATION - (Cont.)

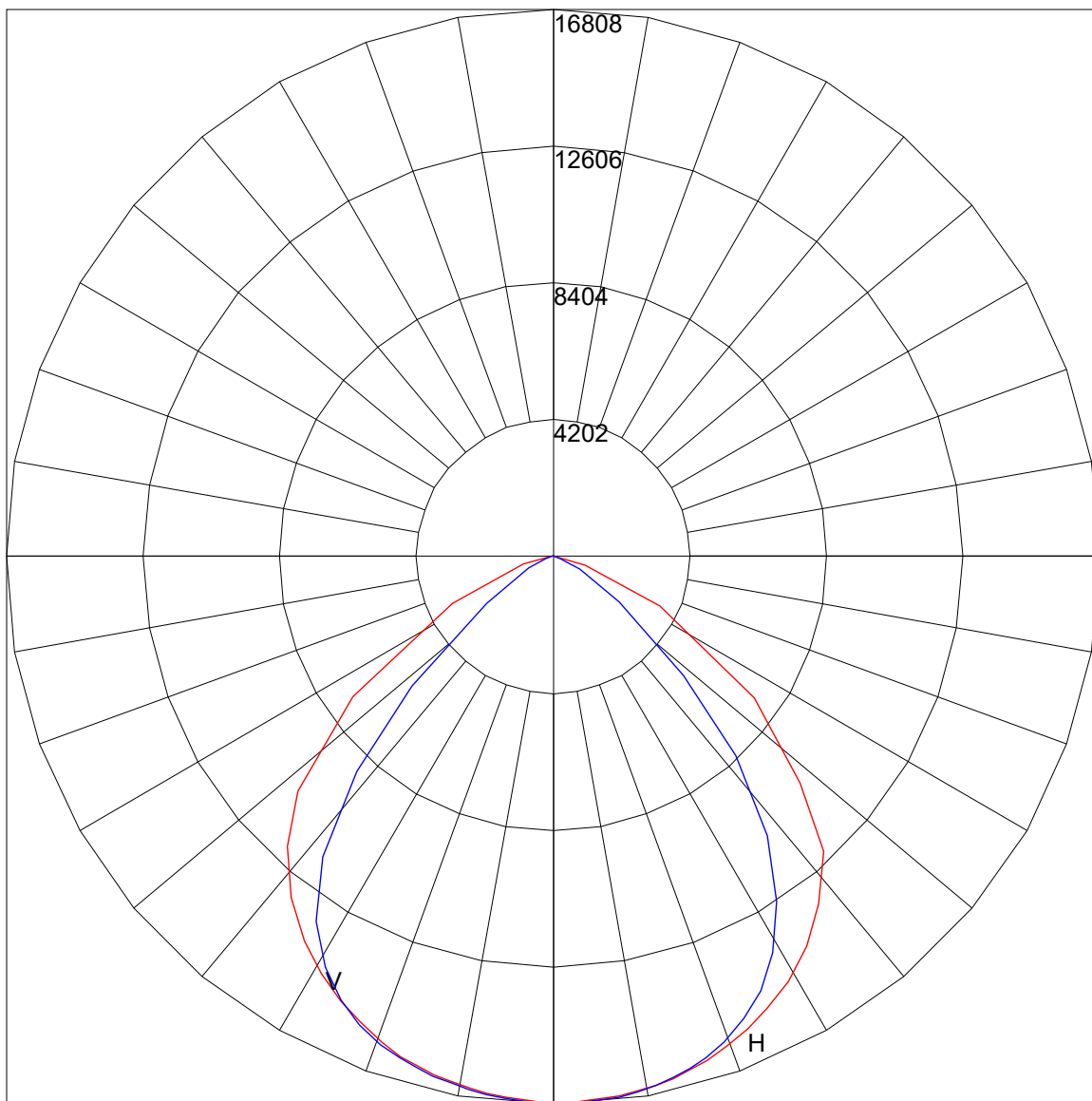
13	0.48	0.00	423.65
11	0.49	0.00	427.48
9	0.51	0.00	430.58
7	0.52	0.00	432.98
5	0.53	0.00	434.76
3	0.53	0.00	435.84
1	0.27	0.00	218.09
0	0.27	0.00	218.12
-1	0.53	0.00	435.97
-3	0.53	0.00	434.93
-5	0.52	0.00	433.13
-7	0.51	0.00	430.68
-9	0.50	0.00	427.56
-11	0.48	0.00	423.86
-13	0.47	0.00	419.46
-15	0.45	0.00	414.30
-17	0.54	0.00	509.41
-19.5	0.61	0.00	596.53
-22.5	0.57	0.00	576.30
-25.5	0.60	0.00	639.93
-29	0.61	0.00	676.78
-33	0.58	0.00	670.51
-37.5	0.53	0.00	603.14
-42.5	0.41	0.00	435.54
-47.5	0.41	0.00	380.35
-55	0.28	0.00	208.53
-65	0.11	0.00	64.75
-75	0.05	0.00	15.24

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PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [290W, 3000K].IES

LUMENS TABULATION - (Cont.)

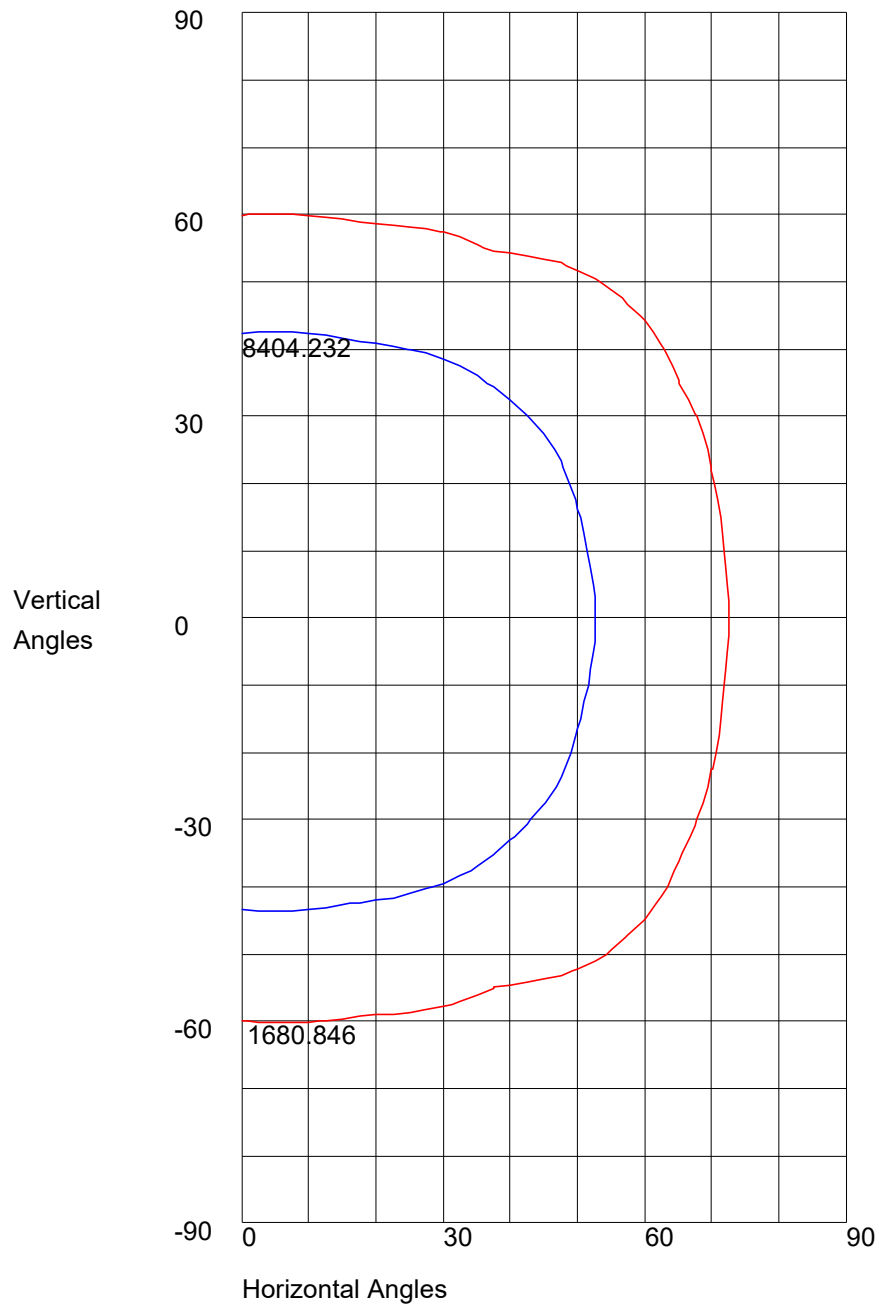
-85	0.01	0.00	0.88
-90			
Total	19.01	0.12	17817.56

AXIAL CANDELA DISPLAY



Maximum Candela = 16808.464 Located At Horizontal Angle = 1, Vertical Angle = 1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 16808.464 Located At Horizontal Angle = 1, Vertical Angle = 1
50% Maximum Candela = 8404.232
10% Maximum Candela = 1680.8464