



IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [210W, 4000K].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 [210W, 4000K]
[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	14209.723
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	30024.4 (1 lamp)
Total Lamp Lumens	30024.4
Beam Lumens	23502
Beam Efficiency	78 %
Field Lumens	29041
Field Efficiency	97 %
Spill Lumens	1085
Luminaire Lumens	30126
Total Efficiency	100 %
Total Luminaire Watts	211.2
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.088	90	0
85	28.405	85	12.131
75	868.47	75	194.812
65	3071.339	65	747.757
55	6387.538	55	2079.29
47.5	8733.079	47.5	4585.113
42.5	10392.81	42.5	7023.69
37.5	11357.118	37.5	9154.807
33	12077.036	33	10663.77
29	12605.963	29	11759.177
25.5	12974.406	25.5	12503.164
22.5	13260.904	22.5	12986.909
19.5	13494.841	19.5	13364.401
17	13673.261	17	13617.744
15	13796.358	15	13771.563
13	13911.941	13	13894.22
11	13990.95	11	13985.726
9	14053.636	9	14064.119
7	14102.939	7	14131.995
5	14138.522	5	14167.425
3	14172.151	3	14189.067
1	14203.169	1	14204.809
0	14203.169	0	14203.169
-1	14191.088	-1	14194.638
-3	14133.626	-3	14167.748
-5	14097.063	-5	14122.156
-7	14045.478	-7	14059.199
-9	13971.032	-9	13991.635
-11	13884.515	-11	13928.003
-13	13802.233	-13	13831.585
-15	13694.81	-15	13735.49
-17	13574.992	-17	13614.472
-19.5	13385.135	-19.5	13437.866
-22.5	13096.188	-22.5	13157.614
-25.5	12807.243	-25.5	12769.466
-29	12401.573	-29	12209.466
-33	11884.405	-33	11307.891
-37.5	11178.195	-37.5	9814.677
-42.5	10223.195	-42.5	7548.112
-47.5	9024.798	-47.5	4997.03
-55	6365.338	-55	2115.05
-65	2889.8	-65	711.363
-75	796.646	-75	192.842
-85	31.677	-85	23.291
-90	0	-90	0

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 15062.8

Total Field Lumens (one side of beam only) = 14520.31

* 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	0.02
75	0.32	0.63	0.63	0.62	0.61	0.60	0.59	0.57	0.55	0.66
65	1.44	2.88	2.88	2.85	2.81	2.75	2.69	2.61	2.51	3.00
55	4.32	8.70 *	8.71 *	8.64 *	8.55	8.40	8.20	7.96	7.68	9.21
47.5	7.64 *	15.40 *	15.46 *	15.40 *	15.24 *	14.99 *	14.66 *	14.23 *	13.72 *	16.56 *
42.5	8.87 *	17.84 *	17.89 *	17.82 *	17.63 *	17.35 *	17.00 *	16.53 *	15.96 *	19.28 *
37.5	12.34 *	24.76 *	24.76 *	24.65 *	24.38 *	23.98 *	23.52 *	22.96 *	22.36 *	27.09 *
33	13.60 *	27.24 *	27.20 *	27.05 *	26.79 *	26.38 *	25.88 *	25.37 *	24.86 *	30.24 *
29	13.67 *	27.36 *	27.30 *	27.13 *	26.87 *	26.50 *	26.06 *	25.61 *	25.12 *	30.59 *
25.5	12.94 *	25.87 *	25.79 *	25.62 *	25.37 *	25.05 *	24.69 *	24.28 *	23.82 *	29.03 *
22.5	11.65 *	23.28 *	23.20 *	23.06 *	22.84 *	22.57 *	22.26 *	21.91 *	21.50 *	26.22 *
19.5	12.04 *	24.06 *	23.98 *	23.83 *	23.61 *	23.35 *	23.04 *	22.68 *	22.27 *	27.18 *
17	10.27 *	20.52 *	20.45 *	20.32 *	20.15 *	19.93 *	19.68 *	19.37 *	19.03 *	23.21 *
15	8.34 *	16.66 *	16.60 *	16.50 *	16.36 *	16.19 *	15.99 *	15.75 *	15.46 *	18.84 *
13	8.43 *	16.83 *	16.77 *	16.67 *	16.53 *	16.37 *	16.16 *	15.91 *	15.62 *	19.04 *
11	8.49 *	16.96 *	16.91 *	16.81 *	16.68 *	16.51 *	16.29 *	16.04 *	15.74 *	19.20 *
9	8.54 *	17.07 *	17.01 *	16.92 *	16.79 *	16.62 *	16.40 *	16.13 *	15.84 *	19.32 *
7	8.59 *	17.15 *	17.09 *	17.00 *	16.87 *	16.69 *	16.47 *	16.21 *	15.91 *	19.42 *
5	8.62 *	17.21 *	17.16 *	17.07 *	16.93 *	16.74 *	16.52 *	16.26 *	15.97 *	19.49 *
3	8.64 *	17.26 *	17.20 *	17.11 *	16.96 *	16.78 *	16.55 *	16.30 *	16.00 *	19.54 *
1	8.65 *	17.28 *	17.21 *	17.11 *	16.97 *	16.78 *	16.57 *	16.32 *	16.02 *	19.57 *
0	4.33 *	8.64 *	8.60 *	8.55 *	8.48 *	8.39 *	8.28 *	8.16 *	8.01 *	9.79 *
-1	4.32 *	8.64 *	8.60 *	8.55 *	8.48 *	8.39 *	8.28 *	8.16 *	8.02 *	9.79 *
-3	8.64 *	17.27 *	17.21 *	17.11 *	16.97 *	16.78 *	16.57 *	16.32 *	16.03 *	19.57 *
	8.62 *	17.23 *	17.17 *	17.08 *	16.95 *	16.77 *	16.55 *	16.30 *	16.01 *	19.54 *

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LUMENS TABULATION - (Cont.)

-5	8.59 *	17.17 *	17.12 *	17.01 *	16.88 *	16.71 *	16.50 *	16.25 *	15.97 *	19.49 *
-7	8.55 *	17.10 *	17.05 *	16.94 *	16.79 *	16.62 *	16.42 *	16.18 *	15.90 *	19.42 *
-9	8.51 *	17.01 *	16.96 *	16.86 *	16.70 *	16.52 *	16.31 *	16.07 *	15.79 *	19.30 *
-11	8.46 *	16.90 *	16.85 *	16.75 *	16.60 *	16.41 *	16.19 *	15.95 *	15.67 *	19.15 *
-13	8.40 *	16.78 *	16.73 *	16.63 *	16.48 *	16.29 *	16.07 *	15.82 *	15.54 *	18.98 *
-15	8.33 *	16.64 *	16.59 *	16.49 *	16.34 *	16.15 *	15.93 *	15.67 *	15.39 *	18.79 *
-17	10.30 *	20.57 *	20.50 *	20.37 *	20.20 *	19.97 *	19.69 *	19.36 *	19.00 *	23.19 *
-19.5	12.15 *	24.27 *	24.18 *	24.03 *	23.82 *	23.55 *	23.22 *	22.83 *	22.39 *	27.31 *
-22.5	11.85 *	23.67 *	23.59 *	23.45 *	23.25 *	22.98 *	22.65 *	22.27 *	21.83 *	26.60 *
-25.5	13.32 *	26.62 *	26.54 *	26.38 *	26.15 *	25.85 *	25.47 *	25.02 *	24.52 *	29.85 *
-29	14.34 *	28.67 *	28.59 *	28.42 *	28.17 *	27.82 *	27.37 *	26.86 *	26.28 *	31.95 *
-33	14.49 *	29.01 *	28.96 *	28.81 *	28.55 *	28.14 *	27.62 *	27.04 *	26.42 *	32.08 *
-37.5	13.25 *	26.58 *	26.59 *	26.48 *	26.22 *	25.80 *	25.29 *	24.63 *	23.94 *	29.05 *
-42.5	9.58 *	19.30 *	19.37 *	19.32 *	19.14 *	18.84 *	18.44 *	17.88 *	17.23 *	20.85 *
-47.5	8.16 *	16.49 *	16.61 *	16.59 *	16.47 *	16.23 *	15.87 *	15.38 *	14.77 *	17.80 *
-55	4.32	8.74 *	8.80 *	8.77 *	8.71 *	8.58 *	8.40	8.15	7.85	9.41
-65	1.38	2.76	2.76	2.73	2.70	2.65	2.59	2.52	2.44	2.93
-75	0.33	0.66	0.66	0.65	0.64	0.63	0.62	0.60	0.58	0.70
-85	0.02	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.04
-90	0.02	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.04
Total	367.63	735.76	734.26	730.19	723.69	714.69	703.60	690.47	675.58	822.27

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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.01
85	0.74	0.69	0.75	0.76	0.74	0.68	0.56	0.63	0.45	0.16
75	3.41	3.22	3.48	3.54	3.40	3.06	2.55	2.97	2.08	0.61
65	10.64	10.24	11.22	11.50	10.87	9.85	8.29	9.34	6.40	1.84
55	19.24 *	18.43 *	20.06 *	20.34 *	19.15 *	17.31 *	13.93 *	14.84	9.93	2.84
47.5	22.23 *	21.09 *	22.84 *	23.28 *	22.07 *	19.71 *	15.26 *	15.54 *	10.07	2.84

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LUMENS TABULATION - (Cont.)

42.5										
	31.16 *	29.48 *	31.96 *	32.84 *	31.57 *	28.22 *	21.49 *	21.40 *	13.43 *	3.71
37.5										
	34.87 *	33.09 *	36.01 *	37.17 *	36.20 *	32.87 *	25.16 *	24.83 *	15.28 *	4.14
33										
	35.35 *	33.67 *	36.77 *	38.22 *	37.68 *	34.74 *	26.98 *	26.63 *	16.18 *	4.37
29										
	33.62 *	32.06 *	35.08 *	36.67 *	36.54 *	34.13 *	26.85 *	26.64 *	16.10 *	4.34
25.5										
	30.37 *	28.97 *	31.77 *	33.37 *	33.47 *	31.70 *	25.18 *	24.96 *	15.16 *	4.10
22.5										
	31.46 *	30.03 *	33.02 *	34.82 *	35.12 *	33.52 *	26.71 *	26.62 *	16.35 *	4.44 *
19.5										
	26.87 *	25.67 *	28.28 *	29.91 *	30.29 *	28.91 *	23.11 *	23.32 *	14.47 *	3.93 *
17										
	21.83 *	20.87 *	23.03 *	24.41 *	24.73 *	23.63 *	18.98 *	19.31 *	12.07 *	3.29 *
15										
	22.06 *	21.12 *	23.33 *	24.75 *	25.07 *	24.00 *	19.38 *	19.82 *	12.47 *	3.41 *
13										
	22.26 *	21.32 *	23.56 *	24.99 *	25.33 *	24.31 *	19.71 *	20.28 *	12.83 *	3.52 *
11										
	22.41 *	21.47 *	23.73 *	25.18 *	25.55 *	24.55 *	19.98 *	20.68 *	13.16 *	3.62 *
9										
	22.53 *	21.58 *	23.85 *	25.32 *	25.72 *	24.77 *	20.20 *	21.02 *	13.45 *	3.71 *
7										
	22.61 *	21.67 *	23.95 *	25.43 *	25.85 *	24.93 *	20.38 *	21.30 *	13.71 *	3.80 *
5										
	22.67 *	21.72 *	24.02 *	25.51 *	25.93 *	25.04 *	20.51 *	21.54 *	13.95 *	3.87 *
3										
	22.70 *	21.75 *	24.06 *	25.55 *	25.99 *	25.12 *	20.60 *	21.70 *	14.12 *	3.93 *
1										
	11.35 *	10.88 *	12.03 *	12.78 *	13.01 *	12.58 *	10.32 *	10.89 *	7.10 *	1.98 *
0										
	11.35 *	10.88 *	12.03 *	12.78 *	13.01 *	12.58 *	10.33 *	10.89 *	7.11 *	1.98 *
-1										
	22.70 *	21.75 *	24.06 *	25.55 *	26.00 *	25.14 *	20.63 *	21.74 *	14.15 *	3.93 *
-3										
	22.67 *	21.72 *	24.02 *	25.51 *	25.95 *	25.08 *	20.56 *	21.61 *	14.01 *	3.89 *
-5										
	22.62 *	21.67 *	23.96 *	25.44 *	25.87 *	24.99 *	20.45 *	21.41 *	13.80 *	3.82 *
-7										
	22.53 *	21.59 *	23.86 *	25.34 *	25.75 *	24.84 *	20.30 *	21.17 *	13.58 *	3.74 *
-9										
	22.40 *	21.48 *	23.74 *	25.19 *	25.59 *	24.66 *	20.11 *	20.87 *	13.32 *	3.66 *
-11										
	22.24 *	21.32 *	23.57 *	25.01 *	25.38 *	24.44 *	19.88 *	20.52 *	13.02 *	3.56 *
-13										
	22.04 *	21.14 *	23.36 *	24.79 *	25.15 *	24.17 *	19.59 *	20.11 *	12.68 *	3.46 *
-15										
	21.82 *	20.91 *	23.10 *	24.51 *	24.86 *	23.83 *	19.23 *	19.64 *	12.30 *	3.34 *
-17										
	26.91 *	25.77 *	28.45 *	30.13 *	30.53 *	29.22 *	23.48 *	23.79 *	14.77 *	4.00 *
-19.5										
	31.65 *	30.29 *	33.39 *	35.27 *	35.62 *	34.03 *	27.22 *	27.28 *	16.77 *	4.52 *
-22.5										
	30.81 *	29.44 *	32.38 *	34.08 *	34.21 *	32.38 *	25.76 *	25.70 *	15.63 *	4.19

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LUMENS TABULATION - (Cont.)

-25.5	34.54 *	32.97 *	36.16 *	37.86 *	37.71 *	35.15 *	27.66 *	27.57 *	16.68 *	4.45
-29	36.89 *	35.13 *	38.45 *	40.00 *	39.31 *	36.12 *	28.05 *	27.81 *	16.89 *	4.49
-33	36.95 *	35.01 *	38.14 *	39.43 *	38.22 *	34.50 *	26.39 *	26.17 *	16.10 *	4.30
-37.5	33.47 *	31.64 *	34.23 *	35.13 *	33.66 *	29.92 *	22.71 *	22.71 *	14.26 *	3.87
-42.5	24.12 *	22.86 *	24.63 *	25.06 *	23.75 *	21.07 *	16.23 *	16.54 *	10.68	2.97
-47.5	20.72 *	19.80 *	21.40 *	21.73 *	20.58 *	18.55 *	14.80 *	15.74 *	10.53	2.97
-55	10.95	10.60	11.59	11.91	11.40	10.45	8.74	9.89	6.85	1.95
-65	3.35	3.20	3.51	3.64	3.53	3.19	2.68	3.16	2.23	0.67
-75	0.79	0.74	0.81	0.83	0.82	0.75	0.61	0.69	0.52	0.20
-85	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04	0.02
-90										
Total	951.97	909.01	997.71	1045.6	1041.24	978.79	781.61	799.38	504.74	138.44

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90	0.00	0.00		0.47
85	0.03	0.00		11.97
75	0.09	0.00		54.81
65	0.22	0.00		170.80
55	0.34	0.00		299.71
47.5	0.34	0.00		341.42
42.5	0.44	0.00		476.49
37.5	0.48	0.00		534.73
33	0.51	0.00		547.31
29	0.50	0.00		525.02
25.5	0.48	0.00		478.01
22.5	0.51	0.00		498.64
19.5	0.45	0.00		428.15
17	0.38	0.00		349.24
15	0.39	0.00		354.14

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LUMENS TABULATION - (Cont.)

13	0.41	0.00	358.15
11	0.42	0.00	361.39
9	0.43	0.00	364.00
7	0.44	0.00	366.03
5	0.45	0.00	367.54
3	0.45	0.00	368.45
1	0.23	0.00	184.37
0	0.23	0.00	184.39
-1	0.45	0.00	368.56
-3	0.45	0.00	367.69
-5	0.44	0.00	366.17
-7	0.43	0.00	364.10
-9	0.42	0.00	361.46
-11	0.41	0.00	358.32
-13	0.40	0.00	354.60
-15	0.38	0.00	350.24
-17	0.46	0.00	430.65
-19.5	0.52	0.00	504.30
-22.5	0.48	0.00	487.20
-25.5	0.51	0.00	540.99
-29	0.51	0.00	572.15
-33	0.49	0.00	566.84
-37.5	0.44	0.00	509.89
-42.5	0.34	0.00	368.20
-47.5	0.35	0.00	321.54
-55	0.23	0.00	176.29
-65	0.10	0.00	54.74
-75	0.04	0.00	12.88

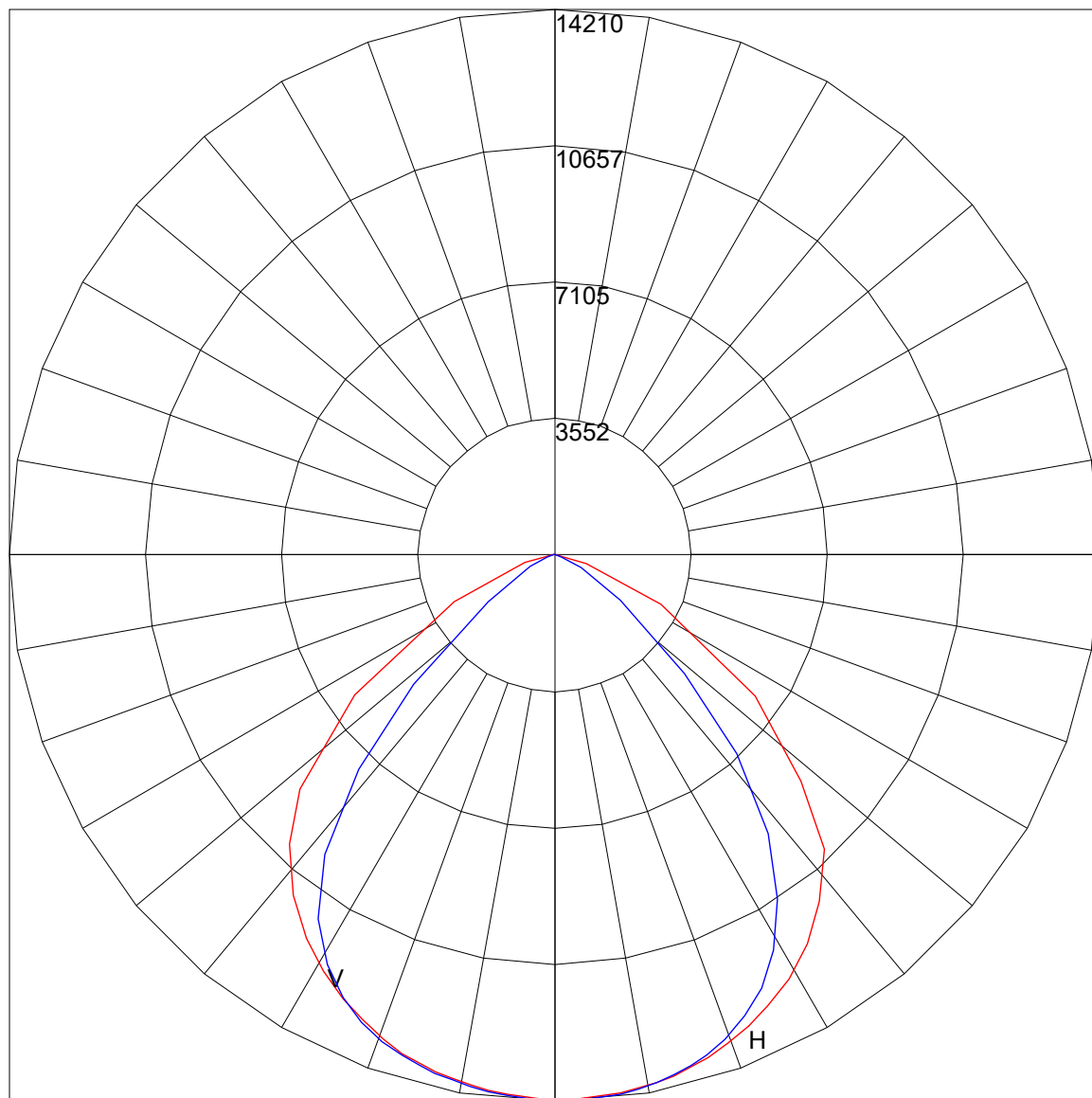
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LUMENS TABULATION - (Cont.)

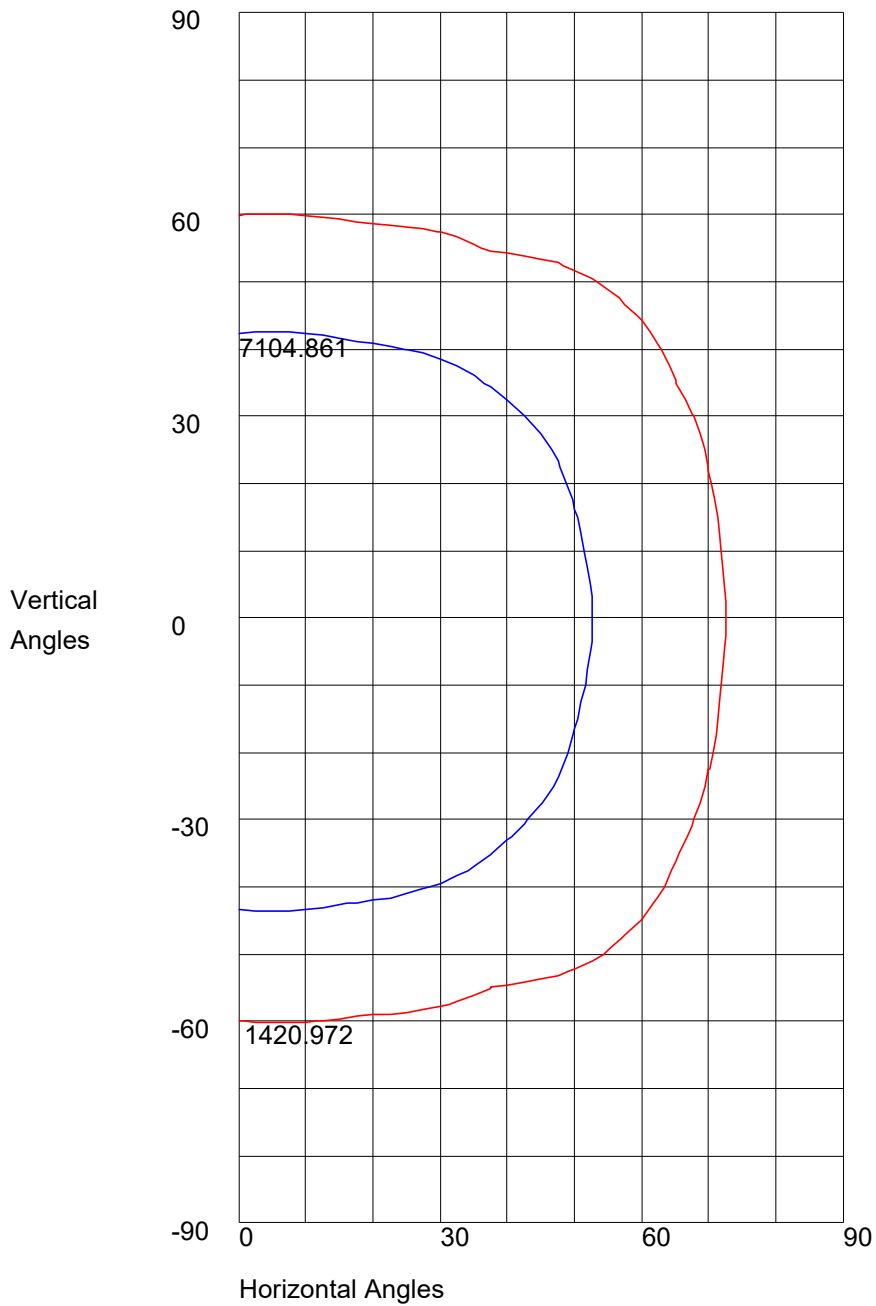
-85	0.00	0.00	0.75
-90			
Total	16.07	0.10	15062.81

AXIAL CANDELA DISPLAY



Maximum Candela = 14209.723 Located At Horizontal Angle = 1, Vertical Angle = 1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 14209.723 Located At Horizontal Angle = 1, Vertical Angle = 1
50% Maximum Candela = 7104.8615
10% Maximum Candela = 1420.9723