



IES FLOOD REPORT

PHOTOMETRIC FILENAME : PFK SEL290 76 UV 8SEL [290W, 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 [290W, 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	19325.079
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	40832.86 (1 lamp)
Total Lamp Lumens	40832.86
Beam Lumens	31962
Beam Efficiency	78 %
Field Lumens	39495
Field Efficiency	97 %
Spill Lumens	1476
Luminaire Lumens	40970
Total Efficiency	100 %
Total Luminaire Watts	291.7
Ballast Factor	1.00

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DEG.	HOR.	DEG.	VERT.
90	.12	90	0
85	38.631	85	16.499
75	1181.11	75	264.942
65	4176.99	65	1016.942
55	8686.985	55	2827.813
47.5	11876.898	47.5	6235.707
42.5	14134.115	42.5	9552.147
37.5	15445.564	37.5	12450.443
33	16424.645	33	14502.618
29	17143.98	29	15992.36
25.5	17645.059	25.5	17004.174
22.5	18034.694	22.5	17662.063
19.5	18352.845	19.5	18175.449
17	18595.494	17	18519.992
15	18762.905	15	18729.184
13	18920.097	13	18895.997
11	19027.549	11	19020.443
9	19112.801	9	19127.057
7	19179.852	7	19219.368
5	19228.244	5	19267.553
3	19273.98	3	19296.985
1	19316.165	1	19318.394
0	19316.165	0	19316.165
-1	19299.734	-1	19304.562
-3	19221.586	-3	19267.991
-5	19171.861	-5	19205.987
-7	19101.706	-7	19120.366
-9	19000.46	-9	19028.48
-11	18882.797	-11	18941.941
-13	18770.896	-13	18810.814
-15	18624.801	-15	18680.125
-17	18461.85	-17	18515.542
-19.5	18203.646	-19.5	18275.36
-22.5	17810.682	-22.5	17894.221
-25.5	17417.718	-25.5	17366.343
-29	16866.012	-29	16604.749
-33	16162.669	-33	15378.615
-37.5	15202.231	-37.5	13347.86
-42.5	13903.44	-42.5	10265.354
-47.5	12273.633	-47.5	6795.91
-55	8656.794	-55	2876.446
-65	3930.098	-65	967.446
-75	1083.43	-75	262.263
-85	43.08	-85	31.675
-90	0	-90	0

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 20485.24

Total Field Lumens (one side of beam only) = 19747.47

* 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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
75	0.43	0.86	0.86	0.85	0.83	0.82	0.80	0.77	0.75	0.89
65	1.95	3.92	3.91	3.87	3.82	3.75	3.65	3.54	3.42	4.08
55	5.87	11.83 *	11.84 *	11.75 *	11.62	11.42	11.16	10.83	10.45	12.52
47.5	10.39 *	20.95 *	21.03 *	20.94 *	20.73 *	20.39 *	19.93 *	19.35 *	18.66 *	22.53 *
42.5	12.06 *	24.26 *	24.32 *	24.23 *	23.98 *	23.59 *	23.12 *	22.48 *	21.71 *	26.22 *
37.5	16.79 *	33.68 *	33.68 *	33.52 *	33.16 *	32.61 *	31.99 *	31.23 *	30.40 *	36.84 *
33	18.50 *	37.05 *	36.99 *	36.79 *	36.43 *	35.87 *	35.19 *	34.51 *	33.81 *	41.13 *
29	18.60 *	37.21 *	37.12 *	36.89 *	36.54 *	36.04 *	35.44 *	34.83 *	34.17 *	41.60 *
25.5	17.60 *	35.19 *	35.07 *	34.84 *	34.50 *	34.07 *	33.58 *	33.03 *	32.40 *	39.49 *
22.5	15.84 *	31.66 *	31.56 *	31.36 *	31.06 *	30.69 *	30.27 *	29.79 *	29.24 *	35.66 *
19.5	16.38 *	32.72 *	32.61 *	32.41 *	32.11 *	31.76 *	31.34 *	30.85 *	30.29 *	36.96 *
17	13.97 *	27.91 *	27.81 *	27.63 *	27.40 *	27.11 *	26.76 *	26.35 *	25.87 *	31.56 *
15	11.35 *	22.66 *	22.57 *	22.43 *	22.25 *	22.02 *	21.74 *	21.41 *	21.02 *	25.63 *
13	11.46 *	22.89 *	22.80 *	22.67 *	22.49 *	22.26 *	21.98 *	21.64 *	21.24 *	25.89 *
11	11.55 *	23.07 *	22.99 *	22.86 *	22.68 *	22.45 *	22.16 *	21.81 *	21.40 *	26.11 *
9	11.62 *	23.21 *	23.14 *	23.01 *	22.83 *	22.60 *	22.30 *	21.94 *	21.54 *	26.28 *
7	11.68 *	23.32 *	23.25 *	23.13 *	22.94 *	22.70 *	22.40 *	22.04 *	21.64 *	26.41 *
5	11.72 *	23.41 *	23.34 *	23.21 *	23.02 *	22.77 *	22.47 *	22.11 *	21.71 *	26.51 *
3	11.75 *	23.47 *	23.40 *	23.26 *	23.07 *	22.81 *	22.51 *	22.16 *	21.77 *	26.57 *
1	11.76 *	23.50 *	23.41 *	23.27 *	23.07 *	22.83 *	22.53 *	22.19 *	21.79 *	26.61 *
0	5.88 *	11.74 *	11.69 *	11.62 *	11.53 *	11.41 *	11.27 *	11.10 *	10.90 *	13.31 *
-1	5.88 *	11.74 *	11.69 *	11.62 *	11.53 *	11.41 *	11.27 *	11.10 *	10.90 *	13.31 *
-3	11.75 *	23.48 *	23.40 *	23.27 *	23.07 *	22.83 *	22.53 *	22.19 *	21.80 *	26.61 *
	11.72 *	23.43 *	23.35 *	23.23 *	23.05 *	22.81 *	22.51 *	22.17 *	21.77 *	26.58 *

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LUMENS TABULATION - (Cont.)

-5	11.68 *	23.36 *	23.28 *	23.14 *	22.96 *	22.73 *	22.45 *	22.11 *	21.71 *	26.51 *
-7	11.63 *	23.25 *	23.19 *	23.04 *	22.84 *	22.60 *	22.33 *	22.00 *	21.62 *	26.41 *
-9	11.57 *	23.13 *	23.06 *	22.92 *	22.72 *	22.47 *	22.19 *	21.86 *	21.48 *	26.25 *
-11	11.50 *	22.99 *	22.92 *	22.78 *	22.58 *	22.32 *	22.02 *	21.69 *	21.32 *	26.04 *
-13	11.42 *	22.82 *	22.75 *	22.62 *	22.42 *	22.16 *	21.85 *	21.51 *	21.13 *	25.82 *
-15	11.33 *	22.63 *	22.56 *	22.42 *	22.23 *	21.97 *	21.66 *	21.32 *	20.93 *	25.56 *
-17	14.01 *	27.98 *	27.88 *	27.71 *	27.47 *	27.15 *	26.77 *	26.33 *	25.84 *	31.54 *
-19.5	16.52 *	33.01 *	32.88 *	32.68 *	32.40 *	32.03 *	31.57 *	31.05 *	30.46 *	37.14 *
-22.5	16.11 *	32.19 *	32.08 *	31.89 *	31.62 *	31.26 *	30.81 *	30.28 *	29.69 *	36.17 *
-25.5	18.11 *	36.21 *	36.09 *	35.88 *	35.57 *	35.16 *	34.64 *	34.03 *	33.34 *	40.59 *
-29	19.50 *	38.99 *	38.88 *	38.65 *	38.31 *	37.84 *	37.22 *	36.53 *	35.75 *	43.46 *
-33	19.71 *	39.46 *	39.39 *	39.18 *	38.82 *	38.27 *	37.56 *	36.77 *	35.93 *	43.63 *
-37.5	18.02 *	36.15 *	36.17 *	36.02 *	35.66 *	35.09 *	34.39 *	33.50 *	32.56 *	39.51 *
-42.5	13.03 *	26.24 *	26.34 *	26.27 *	26.03 *	25.63 *	25.08 *	24.32 *	23.44 *	28.35 *
-47.5	11.10 *	22.42 *	22.58 *	22.56 *	22.40 *	22.08 *	21.59 *	20.92 *	20.09 *	24.21 *
-55	5.88	11.89 *	11.96 *	11.93 *	11.84 *	11.67 *	11.42	11.09	10.67	12.80
-65	1.87	3.76	3.75	3.72	3.67	3.61	3.53	3.43	3.32	3.98
-75	0.45	0.90	0.90	0.89	0.88	0.86	0.84	0.82	0.79	0.95
-85	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05
-90	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.05
Total	499.97	1000.63	998.58	993.05	984.20	971.97	956.89	939.03	918.78	1118.28

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.02
85	1.01	0.94	1.01	1.04	1.01	0.92	0.76	0.86	0.61	0.22
75	4.64	4.38	4.73	4.81	4.62	4.16	3.46	4.04	2.83	0.83
65	14.47	13.93	15.25	15.65	14.78	13.39	11.28	12.71	8.71	2.51
55	26.16 *	25.06 *	27.27 *	27.66 *	26.04 *	23.55 *	18.95 *	20.18	13.50	3.86
47.5	30.23 *	28.68 *	31.06 *	31.66 *	30.02 *	26.81 *	20.75 *	21.14 *	13.69	3.86

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LUMENS TABULATION - (Cont.)

42.5	42.37 *	40.09 *	43.46 *	44.66 *	42.93 *	38.38 *	29.22 *	29.10 *	18.27 *	5.04
37.5	47.42 *	45.00 *	48.97 *	50.56 *	49.23 *	44.70 *	34.22 *	33.77 *	20.79 *	5.64
33	48.08 *	45.78 *	50.01 *	51.98 *	51.24 *	47.25 *	36.69 *	36.21 *	22.01 *	5.94
29	45.72 *	43.60 *	47.71 *	49.87 *	49.70 *	46.41 *	36.52 *	36.23 *	21.90 *	5.91
25.5	41.30 *	39.40 *	43.21 *	45.39 *	45.52 *	43.12 *	34.24 *	33.94 *	20.61 *	5.58
22.5	42.79 *	40.84 *	44.91 *	47.35 *	47.77 *	45.59 *	36.32 *	36.20 *	22.23 *	6.03 *
19.5	36.54 *	34.91 *	38.46 *	40.68 *	41.19 *	39.32 *	31.43 *	31.72 *	19.68 *	5.35 *
17	29.68 *	28.39 *	31.32 *	33.20 *	33.64 *	32.13 *	25.82 *	26.26 *	16.42 *	4.48 *
15	30.00 *	28.72 *	31.73 *	33.65 *	34.09 *	32.64 *	26.36 *	26.96 *	16.96 *	4.64 *
13	30.27 *	29.00 *	32.04 *	33.98 *	34.44 *	33.07 *	26.81 *	27.58 *	17.45 *	4.79 *
11	30.48 *	29.20 *	32.27 *	34.24 *	34.74 *	33.39 *	27.17 *	28.12 *	17.90 *	4.93 *
9	30.64 *	29.35 *	32.44 *	34.44 *	34.98 *	33.68 *	27.48 *	28.59 *	18.30 *	5.05 *
7	30.75 *	29.47 *	32.57 *	34.58 *	35.15 *	33.91 *	27.72 *	28.97 *	18.64 *	5.16 *
5	30.83 *	29.54 *	32.66 *	34.69 *	35.27 *	34.06 *	27.90 *	29.29 *	18.97 *	5.26 *
3	30.87 *	29.58 *	32.71 *	34.75 *	35.35 *	34.16 *	28.02 *	29.52 *	19.21 *	5.34 *
1	15.44 *	14.80 *	16.37 *	17.39 *	17.69 *	17.11 *	14.04 *	14.81 *	9.66 *	2.69 *
0	15.44 *	14.80 *	16.37 *	17.39 *	17.69 *	17.11 *	14.04 *	14.82 *	9.67 *	2.69 *
-1	30.87 *	29.58 *	32.72 *	34.75 *	35.36 *	34.19 *	28.05 *	29.57 *	19.25 *	5.35 *
-3	30.83 *	29.54 *	32.67 *	34.69 *	35.29 *	34.11 *	27.96 *	29.39 *	19.05 *	5.29 *
-5	30.76 *	29.47 *	32.58 *	34.59 *	35.18 *	33.98 *	27.82 *	29.12 *	18.77 *	5.19 *
-7	30.64 *	29.36 *	32.46 *	34.46 *	35.02 *	33.79 *	27.61 *	28.79 *	18.47 *	5.09 *
-9	30.47 *	29.21 *	32.28 *	34.26 *	34.80 *	33.53 *	27.34 *	28.38 *	18.11 *	4.97 *
-11	30.24 *	29.00 *	32.06 *	34.01 *	34.52 *	33.24 *	27.04 *	27.91 *	17.71 *	4.84 *
-13	29.98 *	28.74 *	31.77 *	33.71 *	34.20 *	32.87 *	26.64 *	27.36 *	17.25 *	4.70 *
-15	29.67 *	28.44 *	31.42 *	33.33 *	33.80 *	32.40 *	26.16 *	26.71 *	16.72 *	4.54 *
-17	36.59 *	35.05 *	38.69 *	40.98 *	41.53 *	39.75 *	31.93 *	32.35 *	20.09 *	5.44 *
-19.5	43.04 *	41.19 *	45.42 *	47.97 *	48.44 *	46.28 *	37.02 *	37.10 *	22.81 *	6.14 *
-22.5	41.89 *	40.04 *	44.04 *	46.35 *	46.53 *	44.04 *	35.04 *	34.96 *	21.25 *	5.70

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LUMENS TABULATION - (Cont.)

-25.5	46.98 *	44.84 *	49.17 *	51.48 *	51.29 *	47.81 *	37.62 *	37.50 *	22.68 *	6.05
-29	50.17 *	47.77 *	52.29 *	54.40 *	53.46 *	49.13 *	38.15 *	37.82 *	22.98 *	6.11
-33	50.26 *	47.62 *	51.87 *	53.62 *	51.98 *	46.92 *	35.90 *	35.59 *	21.90 *	5.85
-37.5	45.52 *	43.02 *	46.56 *	47.78 *	45.78 *	40.69 *	30.88 *	30.88 *	19.39 *	5.26
-42.5	32.80 *	31.09 *	33.50 *	34.08 *	32.30 *	28.66 *	22.07 *	22.50 *	14.52	4.03
-47.5	28.18 *	26.93 *	29.10 *	29.55 *	27.99 *	25.23 *	20.13 *	21.41 *	14.32	4.04
-55	14.89	14.41	15.77	16.19	15.50	14.21	11.89	13.45	9.31	2.65
-65	4.56	4.36	4.77	4.94	4.80	4.34	3.65	4.30	3.04	0.92
-75	1.07	1.01	1.10	1.13	1.11	1.02	0.83	0.94	0.70	0.27
-85	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.05	0.03
-90										
Total	1294.67	1236.25	1356.88	1422.01	1416.07	1331.14	1062.98	1087.15	686.44	188.28

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90	0.00	0.00		0.64
85	0.05	0.00		16.28
75	0.12	0.00		74.54
65	0.30	0.00		232.28
55	0.46	0.00		407.60
47.5	0.46	0.00		464.33
42.5	0.59	0.00		648.03
37.5	0.66	0.00		727.23
33	0.69	0.00		744.34
29	0.68	0.00		714.03
25.5	0.65	0.00		650.09
22.5	0.70	0.00		678.14
19.5	0.62	0.00		582.28
17	0.52	0.00		474.96
15	0.53	0.00		481.62

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LUMENS TABULATION - (Cont.)

13	0.55	0.00	487.08
11	0.57	0.00	491.48
9	0.58	0.00	495.04
7	0.60	0.00	497.80
5	0.61	0.00	499.85
3	0.61	0.00	501.09
1	0.31	0.00	250.75
0	0.31	0.00	250.77
-1	0.61	0.00	501.24
-3	0.61	0.00	500.05
-5	0.60	0.00	497.98
-7	0.58	0.00	495.17
-9	0.57	0.00	491.58
-11	0.56	0.00	487.32
-13	0.54	0.00	482.26
-15	0.52	0.00	476.32
-17	0.62	0.00	585.68
-19.5	0.70	0.00	685.85
-22.5	0.65	0.00	662.59
-25.5	0.69	0.00	735.74
-29	0.70	0.00	778.11
-33	0.67	0.00	770.90
-37.5	0.61	0.00	693.45
-42.5	0.47	0.00	500.75
-47.5	0.47	0.01	437.30
-55	0.32	0.00	239.75
-65	0.13	0.00	74.44
-75	0.06	0.00	17.52

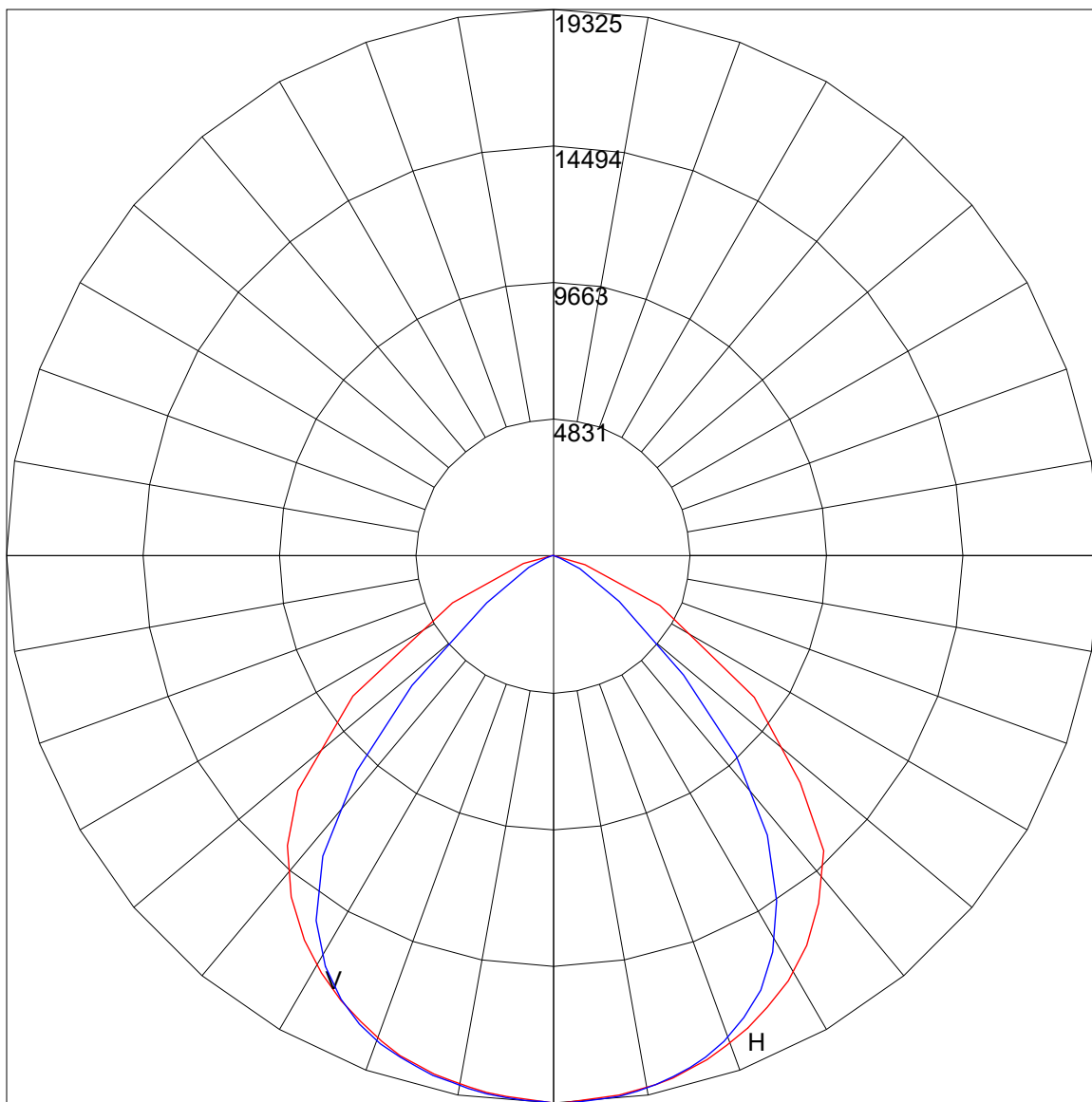
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LUMENS TABULATION - (Cont.)

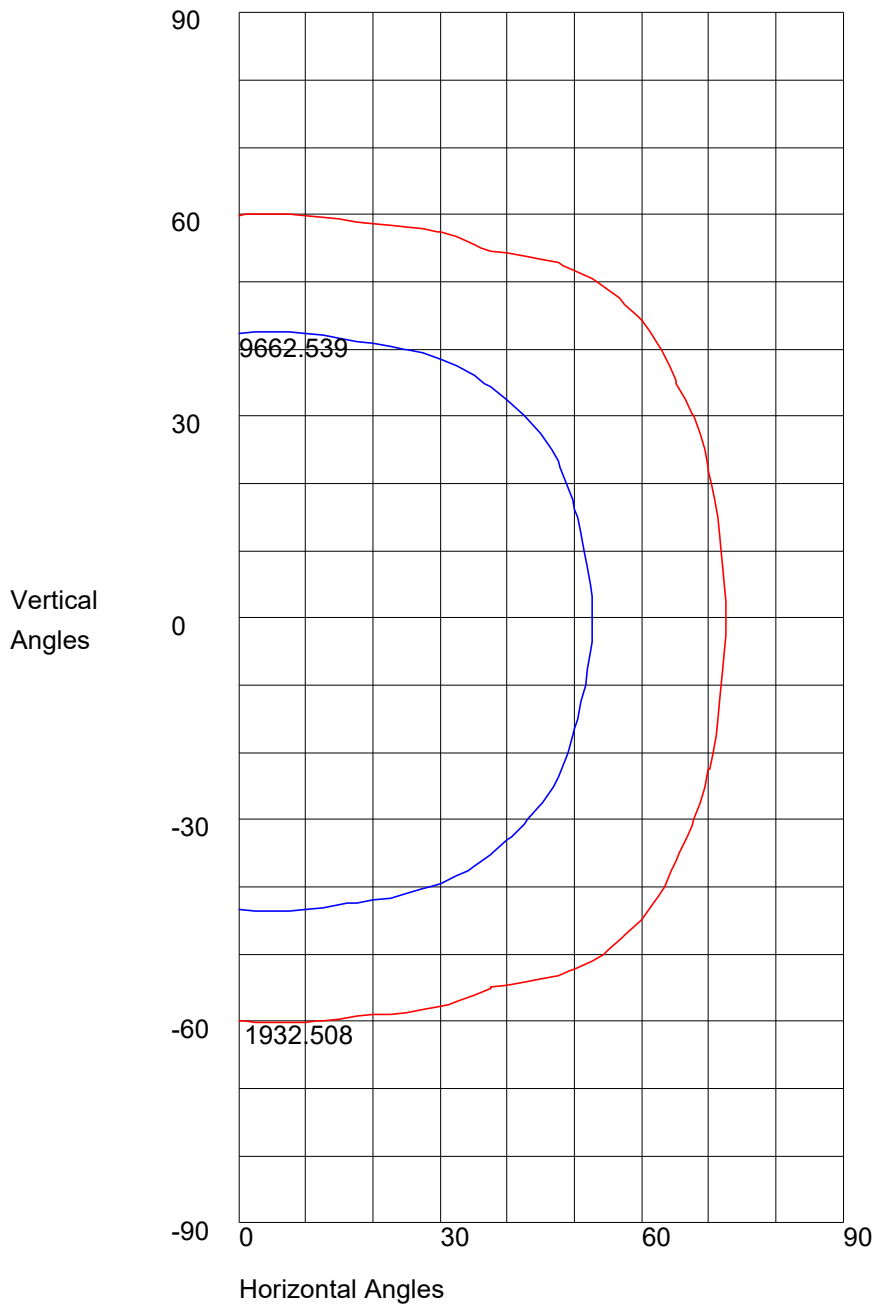
-85	0.01	0.00	1.01
-90			
Total	21.85	0.14	20485.26

AXIAL CANDELA DISPLAY



Maximum Candela = 19325.079 Located At Horizontal Angle = 1, Vertical Angle = 1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 19325.079 Located At Horizontal Angle = 1, Vertical Angle = 1
50% Maximum Candela = 9662.5395
10% Maximum Candela = 1932.5079