



IES FLOOD REPORT

PHOTOMETRIC FILENAME : FLK VH 77 UV 8SEL [4000K].IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] BLC2005004E-D
[ISSUEDATE] 2020-5-10 16:03
[MANUFAC] LumenFocus, LLC.
[LUMCAT] FLK VH 77 UV 8SEL [4000K]
[LUMINAIRE]
[LAMPCAT]
[LAMP]
[_VOLTAGE] 120.0 V
[_CURRENT] 0.8318A
[_POWERFACTOR] 0.994
[_THD] 7.99
[TESTLAB] Belling Test Laboratory Co., LTD
[_TESTINST] GPM-3000
[_TESTDIST] 14.040 m [K=1.0000]
[_TESTTEMPERATURE] 25.0 'C
[_TESTHUMIDITY]
[_TESTOPERATOR]
[BALLAST]
[BALLASTCAT]

Note: Candela values converted from Type-C to Type-B

CHARACTERISTICS

NEMA Type	7 H x 7 V
Maximum Candela	4914.29
Maximum Candela Angle	3H 0V
Horizontal Beam Angle (50%)	113.5
Vertical Beam Angle (50%)	111.0
Horizontal Field Angle (10%)	152.9
Vertical Field Angle (10%)	145.6
Lumens Per Lamp	13332.42 (1 lamp)
Total Lamp Lumens	13332.42
Beam Lumens	10405
Beam Efficiency	78 %
Field Lumens	13153
Field Efficiency	99 %
Spill Lumens	181
Luminaire Lumens	13334
Total Efficiency	100 %
Total Luminaire Watts	99.2
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.096	90	.131
85	33.9	85	20.957
75	628.82	75	130.89
65	1711.202	65	1298.171
55	2630.496	55	2502.092
47.5	3211.163	47.5	3213.003
42.5	3554.786	42.5	3573.554
37.5	3854.639	37.5	3886.776
33	4109.439	33	4131.225
29	4290.057	29	4316.01
25.5	4440.097	25.5	4459.733
22.5	4542.172	22.5	4561.731
19.5	4648.636	19.5	4656.865
17	4720.696	17	4722.796
15	4757.193	15	4761.205
13	4788.893	13	4811.961
11	4820.991	11	4844.092
9	4861.059	9	4864.275
7	4890.57	7	4881.33
5	4903.933	5	4898.772
3	4914.29	3	4901.9
1	4904.331	1	4901.513
0	4899.545	0	4899.545
-1	4903.933	-1	4897.788
-3	4908.509	-3	4884.071
-5	4899.136	-5	4862.904
-7	4885.187	-7	4834.1
-9	4862.849	-9	4802.953
-11	4826.772	-11	4769.827
-13	4780.515	-13	4732.788
-15	4742.437	-15	4686.752
-17	4676.848	-17	4632.658
-19.5	4614.946	-19.5	4569.573
-22.5	4523.631	-22.5	4475.705
-25.5	4433.814	-25.5	4364.898
-29	4293.252	-29	4217.638
-33	4107.837	-33	4030.697
-37.5	3857.33	-37.5	3773.228
-42.5	3555.488	-42.5	3459.708
-47.5	3216.855	-47.5	3112.868
-55	2624.317	-55	2495.427
-65	1595.763	-65	1390.464
-75	523.539	-75	332.52
-85	18.746	-85	37.238
-90	0	-90	.188

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 6666.98

Total Field Lumens (one side of beam only) = 6576.4

* 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	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
75	0.23	0.48	0.49	0.50	0.51	0.51	0.51	0.50	0.49	0.58
65	2.18 *	4.39 *	4.41 *	4.39 *	4.36 *	4.30 *	4.23 *	4.13 *	4.01 *	4.83 *
55	5.80 *	11.63 *	11.63 *	11.57 *	11.47 *	11.32 *	11.13 *	10.88 *	10.59 *	12.80 *
47.5	6.53 *	13.07 *	13.04 *	12.97 *	12.86 *	12.71 *	12.52 *	12.27 *	11.99 *	14.56 *
42.5	5.17 *	10.32 *	10.29 *	10.22 *	10.13 *	10.01 *	9.87 *	9.70 *	9.50 *	11.57 *
37.5	5.68 *	11.35 *	11.31 *	11.24 *	11.14 *	11.00 *	10.85 *	10.66 *	10.46 *	12.74 *
33	5.50 *	10.98 *	10.94 *	10.87 *	10.78 *	10.65 *	10.49 *	10.32 *	10.13 *	12.35 *
29	5.15 *	10.28 *	10.24 *	10.18 *	10.09 *	9.98 *	9.83 *	9.67 *	9.49 *	11.58 *
25.5	4.68 *	9.34 *	9.31 *	9.25 *	9.17 *	9.07 *	8.94 *	8.80 *	8.64 *	10.53 *
22.5	4.12 *	8.23 *	8.20 *	8.15 *	8.08 *	7.99 *	7.88 *	7.76 *	7.62 *	9.29 *
19.5	4.21 *	8.41 *	8.38 *	8.33 *	8.26 *	8.17 *	8.06 *	7.93 *	7.79 *	9.50 *
17	3.57 *	7.13 *	7.10 *	7.06 *	7.00 *	6.92 *	6.83 *	6.73 *	6.60 *	8.05 *
15	2.89 *	5.77 *	5.75 *	5.71 *	5.66 *	5.61 *	5.53 *	5.45 *	5.35 *	6.52 *
13	2.92 *	5.82 *	5.80 *	5.76 *	5.71 *	5.66 *	5.58 *	5.50 *	5.39 *	6.57 *
11	2.94 *	5.87 *	5.84 *	5.80 *	5.76 *	5.70 *	5.63 *	5.54 *	5.43 *	6.62 *
9	2.96 *	5.90 *	5.87 *	5.84 *	5.79 *	5.73 *	5.66 *	5.57 *	5.46 *	6.66 *
7	2.97 *	5.92 *	5.90 *	5.87 *	5.82 *	5.76 *	5.68 *	5.59 *	5.49 *	6.69 *
5	2.98 *	5.94 *	5.92 *	5.89 *	5.84 *	5.78 *	5.70 *	5.61 *	5.51 *	6.72 *
3	2.98 *	5.96 *	5.94 *	5.90 *	5.85 *	5.79 *	5.72 *	5.63 *	5.52 *	6.73 *
1	2.98 *	5.96 *	5.94 *	5.91 *	5.87 *	5.80 *	5.72 *	5.64 *	5.53 *	6.74 *
0	1.49 *	2.99 *	2.98 *	2.96 *	2.94 *	2.91 *	2.86 *	2.82 *	2.77 *	3.37 *
-1	1.49 *	2.98 *	2.98 *	2.96 *	2.94 *	2.90 *	2.86 *	2.82 *	2.77 *	3.37 *
-3	2.98 *	5.95 *	5.93 *	5.91 *	5.86 *	5.80 *	5.71 *	5.62 *	5.52 *	6.73 *
	2.97 *	5.93 *	5.91 *	5.88 *	5.84 *	5.77 *	5.70 *	5.61 *	5.50 *	6.71 *

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LUMENS TABULATION - (Cont.)

-5	2.95 *	5.91 *	5.89 *	5.86 *	5.81 *	5.75 *	5.67 *	5.58 *	5.48 *	6.68 *
-7	2.94 *	5.87 *	5.86 *	5.83 *	5.77 *	5.71 *	5.64 *	5.55 *	5.45 *	6.64 *
-9	2.92 *	5.84 *	5.82 *	5.79 *	5.74 *	5.67 *	5.60 *	5.51 *	5.41 *	6.60 *
-11	2.90 *	5.79 *	5.78 *	5.74 *	5.69 *	5.63 *	5.56 *	5.47 *	5.37 *	6.55 *
-13	2.87 *	5.74 *	5.72 *	5.69 *	5.65 *	5.58 *	5.51 *	5.42 *	5.32 *	6.49 *
-15	2.84 *	5.68 *	5.67 *	5.64 *	5.59 *	5.53 *	5.45 *	5.36 *	5.26 *	6.42 *
-17	3.50 *	7.01 *	6.99 *	6.95 *	6.90 *	6.82 *	6.72 *	6.61 *	6.49 *	7.91 *
-19.5	4.13 *	8.26 *	8.23 *	8.19 *	8.12 *	8.03 *	7.92 *	7.79 *	7.64 *	9.31 *
-22.5	4.04 *	8.07 *	8.05 *	8.00 *	7.93 *	7.85 *	7.74 *	7.61 *	7.46 *	9.09 *
-25.5	4.58 *	9.14 *	9.11 *	9.06 *	8.99 *	8.89 *	8.77 *	8.62 *	8.45 *	10.30 *
-29	5.03 *	10.04 *	10.01 *	9.95 *	9.87 *	9.76 *	9.63 *	9.47 *	9.28 *	11.31 *
-33	5.35 *	10.69 *	10.66 *	10.60 *	10.51 *	10.39 *	10.25 *	10.09 *	9.89 *	12.05 *
-37.5	5.51 *	11.01 *	10.98 *	10.93 *	10.84 *	10.71 *	10.57 *	10.40 *	10.20 *	12.42 *
-42.5	5.01 *	10.01 *	9.98 *	9.93 *	9.84 *	9.73 *	9.60 *	9.43 *	9.24 *	11.26 *
-47.5	6.41 *	12.81 *	12.78 *	12.70 *	12.59 *	12.45 *	12.27 *	12.05 *	11.80 *	14.35 *
-55	5.92 *	11.86 *	11.84 *	11.77 *	11.68 *	11.55 *	11.38 *	11.17 *	10.92 *	13.22 *
-65	2.63 *	5.28 *	5.29 *	5.27 *	5.22 *	5.16 *	5.09 *	4.99 *	4.86 *	5.84 *
-75	0.56	1.14	1.15	1.14	1.13	1.12	1.10	1.07	1.04	1.25
-85	0.03	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.06
-90										
Total	155.49	310.86	309.99	308.24	305.68	302.27	298.05	293.03	287.17	349.61

Vert. Angles **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	0.05	0.05	0.05	0.06	0.06	0.06	0.05	0.06	0.07	0.05
85	0.65	0.66	0.80	0.89	0.89	0.78	0.60	0.71	0.60	0.25
75	5.52 *	5.26 *	5.79 *	6.07 *	6.03 *	5.58 *	4.32	4.30	2.70	0.74
65	14.74 *	14.01 *	15.26 *	16.00 *	15.98 *	15.01 *	11.93 *	12.24 *	7.89 *	2.11
55	16.82 *	16.02 *	17.55 *	18.46 *	18.53 *	17.59 *	14.29 *	15.30 *	10.50 *	3.00
47.5	13.38 *	12.76 *	14.01 *	14.75 *	14.85 *	14.23 *	11.73 *	12.87 *	9.19 *	2.76 *

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LUMENS TABULATION - (Cont.)

42.5	14.75 *	14.08 *	15.48 *	16.33 *	16.48 *	15.84 *	13.15 *	14.66 *	10.69 *	3.34 *
37.5	14.30 *	13.66 *	15.05 *	15.89 *	16.06 *	15.47 *	12.88 *	14.46 *	10.75 *	3.49 *
33	13.42 *	12.83 *	14.14 *	14.95 *	15.14 *	14.61 *	12.20 *	13.76 *	10.37 *	3.45 *
29	12.21 *	11.69 *	12.88 *	13.62 *	13.82 *	13.36 *	11.18 *	12.65 *	9.62 *	3.26 *
25.5	10.77 *	10.30 *	11.37 *	12.03 *	12.20 *	11.83 *	9.91 *	11.23 *	8.60 *	2.95 *
22.5	11.01 *	10.53 *	11.62 *	12.31 *	12.50 *	12.12 *	10.17 *	11.55 *	8.89 *	3.09 *
19.5	9.33 *	8.93 *	9.85 *	10.44 *	10.61 *	10.28 *	8.64 *	9.83 *	7.61 *	2.66 *
17	7.55 *	7.23 *	7.98 *	8.46 *	8.59 *	8.33 *	7.01 *	7.99 *	6.19 *	2.18 *
15	7.62 *	7.29 *	8.05 *	8.54 *	8.67 *	8.41 *	7.08 *	8.08 *	6.27 *	2.22 *
13	7.67 *	7.35 *	8.11 *	8.60 *	8.74 *	8.48 *	7.14 *	8.15 *	6.34 *	2.25 *
11	7.72 *	7.39 *	8.16 *	8.66 *	8.80 *	8.54 *	7.19 *	8.21 *	6.39 *	2.27 *
9	7.76 *	7.43 *	8.21 *	8.70 *	8.85 *	8.58 *	7.23 *	8.26 *	6.44 *	2.29 *
7	7.78 *	7.46 *	8.24 *	8.74 *	8.88 *	8.62 *	7.26 *	8.30 *	6.47 *	2.31 *
5	7.80 *	7.47 *	8.26 *	8.76 *	8.90 *	8.64 *	7.28 *	8.33 *	6.50 *	2.32 *
3	7.81 *	7.48 *	8.27 *	8.77 *	8.91 *	8.65 *	7.29 *	8.35 *	6.52 *	2.32 *
1	3.91 *	3.74 *	4.14 *	4.39 *	4.46 *	4.32 *	3.64 *	4.17 *	3.26 *	1.16 *
0	3.91 *	3.74 *	4.13 *	4.38 *	4.46 *	4.32 *	3.64 *	4.17 *	3.26 *	1.16 *
-1	7.80 *	7.47 *	8.25 *	8.76 *	8.90 *	8.63 *	7.28 *	8.34 *	6.51 *	2.32 *
-3	7.78 *	7.45 *	8.23 *	8.73 *	8.87 *	8.61 *	7.26 *	8.31 *	6.49 *	2.32 *
-5	7.74 *	7.42 *	8.19 *	8.69 *	8.84 *	8.58 *	7.23 *	8.27 *	6.45 *	2.30 *
-7	7.70 *	7.37 *	8.14 *	8.64 *	8.80 *	8.53 *	7.19 *	8.22 *	6.41 *	2.29 *
-9	7.65 *	7.33 *	8.09 *	8.58 *	8.73 *	8.47 *	7.14 *	8.16 *	6.36 *	2.26 *
-11	7.59 *	7.27 *	8.02 *	8.51 *	8.66 *	8.41 *	7.08 *	8.09 *	6.30 *	2.24 *
-13	7.52 *	7.20 *	7.94 *	8.43 *	8.58 *	8.32 *	7.01 *	8.01 *	6.23 *	2.21 *
-15	7.44 *	7.11 *	7.86 *	8.34 *	8.48 *	8.23 *	6.93 *	7.91 *	6.14 *	2.17 *
-17	9.16 *	8.77 *	9.69 *	10.28 *	10.45 *	10.14 *	8.53 *	9.74 *	7.54 *	2.65 *
-19.5	10.78 *	10.32 *	11.40 *	12.09 *	12.29 *	11.92 *	10.03 *	11.42 *	8.81 *	3.08 *
-22.5	10.53 *	10.07 *	11.12 *	11.79 *	11.98 *	11.61 *	9.76 *	11.09 *	8.51 *	2.95 *

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LUMENS TABULATION - (Cont.)

-25.5	11.93 *	11.40 *	12.58 *	13.33 *	13.53 *	13.10 *	10.99 *	12.45 *	9.50 *	3.25 *
-29	13.09 *	12.51 *	13.79 *	14.58 *	14.79 *	14.31 *	11.96 *	13.52 *	10.21 *	3.43 *
-33	13.94 *	13.32 *	14.66 *	15.48 *	15.67 *	15.11 *	12.62 *	14.20 *	10.57 *	3.47 *
-37.5	14.37 *	13.71 *	15.07 *	15.89 *	16.04 *	15.44 *	12.86 *	14.37 *	10.51 *	3.33 *
-42.5	13.01 *	12.40 *	13.61 *	14.32 *	14.44 *	13.86 *	11.46 *	12.67 *	9.06 *	2.76 *
-47.5	16.57 *	15.78 *	17.30 *	18.16 *	18.21 *	17.35 *	14.24 *	15.35 *	10.54 *	3.06
-55	15.19 *	14.44 *	15.83 *	16.54 *	16.44 *	15.43 *	12.36 *	12.79 *	8.33 *	2.29
-65	6.66 *	6.31 *	6.90 *	7.17 *	7.04 *	6.45 *	4.96 *	4.96	3.12	0.86
-75	1.43	1.35	1.46	1.50	1.46	1.32	1.03	1.06	0.72	0.27
-85	0.08	0.07	0.08	0.09	0.09	0.09	0.08	0.09	0.08	0.04
-90										
Total	404.41	386.43	425.61	449.68	454.69	437.53	363.80	406.68	303.51	101.14

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00		0.89
85				
	0.06	0.00		11.70
75				
	0.10	0.00		87.65
65				
	0.21	0.00		234.19
55				
	0.30	0.00		270.90
47.5				
	0.30	0.00		217.59
42.5				
	0.39	0.00		241.63
37.5				
	0.43	0.00		235.44
33				
	0.43	0.00		221.79
29				
	0.42	0.00		202.44
25.5				
	0.39	0.00		178.90
22.5				
	0.41	0.00		183.21
19.5				
	0.35	0.00		155.52
17				
	0.29	0.00		126.01
15				
	0.30	0.00		127.24

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LUMENS TABULATION - (Cont.)

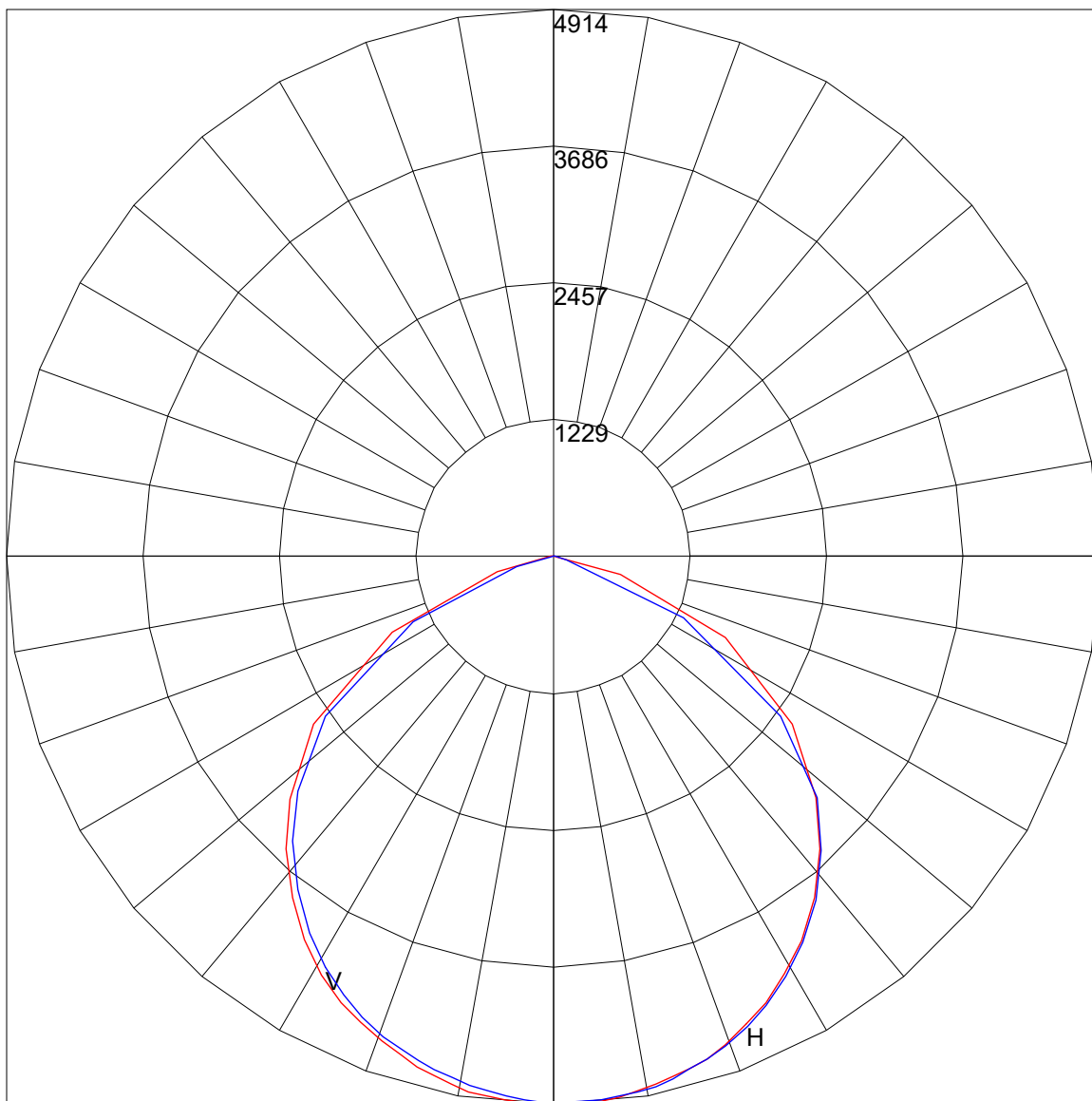
13	0.30	0.00	128.26
11	0.31	0.00	129.08
9	0.31	0.00	129.75
7	0.32	0.00	130.26
5	0.32	0.00	130.61
3	0.32	0.00	130.81
1	0.16	0.00	65.44
0	0.16	0.00	65.41
-1	0.32	0.00	130.60
-3	0.32	0.00	130.19
-5	0.32	0.00	129.61
-7	0.31	0.00	128.87
-9	0.31	0.00	127.98
-11	0.31	0.00	126.93
-13	0.30	0.00	125.72
-15	0.29	0.00	124.34
-17	0.36	0.00	153.20
-19.5	0.41	0.00	180.16
-22.5	0.39	0.00	175.63
-25.5	0.43	0.00	198.40
-29	0.45	0.00	217.00
-33	0.44	0.00	229.94
-37.5	0.41	0.00	235.58
-42.5	0.32	0.00	211.94
-47.5	0.32	0.00	267.09
-55	0.23	0.00	241.20
-65	0.11	0.00	104.17
-75	0.06	0.00	22.37

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LUMENS TABULATION - (Cont.)

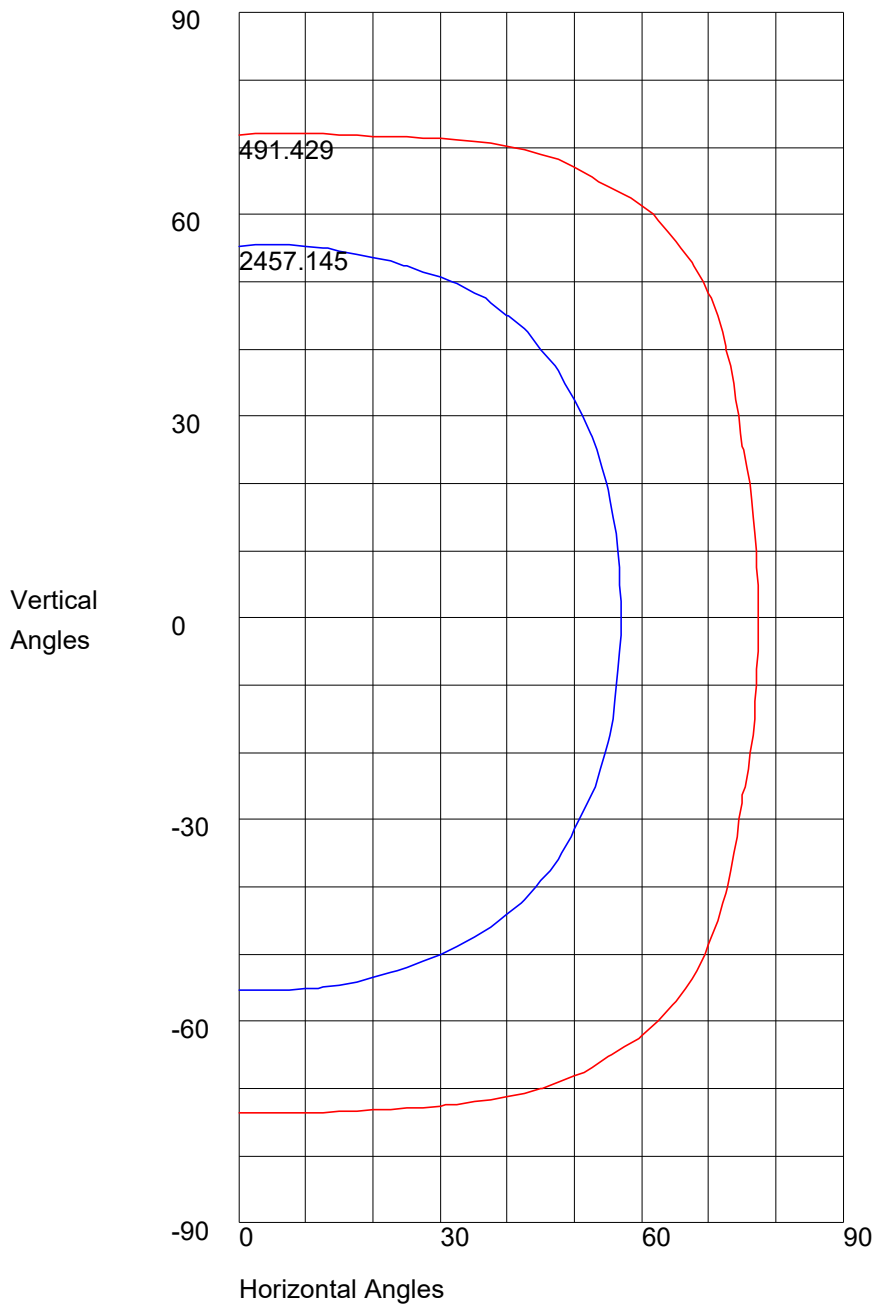
-85	0.01	0.00	1.33
-90			
Total	13.01	0.09	6666.98

AXIAL CANDELA DISPLAY



Maximum Candela = 4914.29 Located At Horizontal Angle = 3, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 4914.29 Located At Horizontal Angle = 3, Vertical Angle = 0
50% Maximum Candela = 2457.145
10% Maximum Candela = 491.429