



IES FLOOD REPORT

PHOTOMETRIC FILENAME : FLK VH 77 UV 8SEL [5000K].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 [5000K]
[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	4837.84
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	13125.02 (1 lamp)
Total Lamp Lumens	13125.02
Beam Lumens	10243
Beam Efficiency	78 %
Field Lumens	12948
Field Efficiency	99 %
Spill Lumens	178
Luminaire Lumens	13127
Total Efficiency	100 %
Total Luminaire Watts	99.2
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.094	90	.129
85	33.372	85	20.631
75	619.037	75	128.854
65	1684.581	65	1277.976
55	2589.574	55	2463.168
47.5	3161.208	47.5	3163.019
42.5	3499.485	42.5	3517.961
37.5	3794.673	37.5	3826.31
33	4045.51	33	4066.956
29	4223.318	29	4248.867
25.5	4371.024	25.5	4390.354
22.5	4471.511	22.5	4490.765
19.5	4576.318	19.5	4584.419
17	4647.257	17	4649.324
15	4683.186	15	4687.136
13	4714.393	13	4737.102
11	4745.992	11	4768.734
9	4785.436	9	4788.603
7	4814.489	7	4805.392
5	4827.644	5	4822.563
3	4837.84	3	4825.642
1	4828.036	1	4825.261
0	4823.324	0	4823.324
-1	4827.644	-1	4821.594
-3	4832.149	-3	4808.091
-5	4822.922	-5	4787.253
-7	4809.19	-7	4758.897
-9	4787.199	-9	4728.234
-11	4751.683	-11	4695.624
-13	4706.146	-13	4659.161
-15	4668.66	-15	4613.841
-17	4604.092	-17	4560.589
-19.5	4543.152	-19.5	4498.485
-22.5	4453.258	-22.5	4406.078
-25.5	4364.838	-25.5	4296.994
-29	4226.463	-29	4152.025
-33	4043.932	-33	3967.993
-37.5	3797.323	-37.5	3714.528
-42.5	3500.176	-42.5	3405.886
-47.5	3166.811	-47.5	3064.442
-55	2583.491	-55	2456.607
-65	1570.939	-65	1368.833
-75	515.395	-75	327.347
-85	18.454	-85	36.658
-90	0	-90	.185

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 6563.26

Total Field Lumens (one side of beam only) = 6474.1

* 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	0.47	0.49	0.50	0.50	0.50	0.50	0.49	0.48	0.57
65	2.15 *	4.33 *	4.34 *	4.32 *	4.29 *	4.24 *	4.16 *	4.07 *	3.95 *	4.75 *
55	5.71 *	11.45 *	11.45 *	11.39 *	11.29 *	11.15 *	10.96 *	10.71 *	10.42 *	12.60 *
47.5	6.43 *	12.87 *	12.84 *	12.77 *	12.66 *	12.51 *	12.32 *	12.08 *	11.80 *	14.33 *
42.5	5.09 *	10.16 *	10.13 *	10.06 *	9.97 *	9.85 *	9.71 *	9.55 *	9.35 *	11.39 *
37.5	5.59 *	11.17 *	11.13 *	11.07 *	10.97 *	10.83 *	10.68 *	10.50 *	10.29 *	12.54 *
33	5.41 *	10.81 *	10.77 *	10.70 *	10.61 *	10.48 *	10.33 *	10.16 *	9.97 *	12.16 *
29	5.07 *	10.12 *	10.08 *	10.02 *	9.94 *	9.82 *	9.68 *	9.52 *	9.34 *	11.40 *
25.5	4.60 *	9.20 *	9.16 *	9.11 *	9.03 *	8.93 *	8.81 *	8.66 *	8.50 *	10.37 *
22.5	4.06 *	8.10 *	8.07 *	8.02 *	7.96 *	7.87 *	7.76 *	7.64 *	7.50 *	9.15 *
19.5	4.15 *	8.28 *	8.25 *	8.20 *	8.13 *	8.04 *	7.93 *	7.81 *	7.66 *	9.35 *
17	3.52 *	7.02 *	6.99 *	6.95 *	6.89 *	6.81 *	6.73 *	6.62 *	6.50 *	7.93 *
15	2.84 *	5.68 *	5.66 *	5.62 *	5.58 *	5.52 *	5.45 *	5.36 *	5.26 *	6.42 *
13	2.87 *	5.73 *	5.71 *	5.67 *	5.63 *	5.57 *	5.50 *	5.41 *	5.31 *	6.47 *
11	2.89 *	5.78 *	5.75 *	5.71 *	5.67 *	5.61 *	5.54 *	5.45 *	5.35 *	6.52 *
9	2.91 *	5.81 *	5.78 *	5.75 *	5.70 *	5.64 *	5.57 *	5.48 *	5.38 *	6.56 *
7	2.92 *	5.83 *	5.81 *	5.78 *	5.73 *	5.67 *	5.60 *	5.51 *	5.40 *	6.59 *
5	2.93 *	5.85 *	5.83 *	5.80 *	5.75 *	5.69 *	5.62 *	5.53 *	5.42 *	6.61 *
3	2.94 *	5.86 *	5.84 *	5.81 *	5.76 *	5.70 *	5.63 *	5.54 *	5.44 *	6.63 *
1	2.94 *	5.87 *	5.85 *	5.82 *	5.78 *	5.71 *	5.64 *	5.55 *	5.44 *	6.64 *
0	1.47 *	2.94 *	2.93 *	2.92 *	2.89 *	2.86 *	2.82 *	2.77 *	2.72 *	3.32 *
-1	1.47 *	2.94 *	2.93 *	2.92 *	2.89 *	2.86 *	2.82 *	2.77 *	2.72 *	3.32 *
-3	2.93 *	5.86 *	5.84 *	5.81 *	5.77 *	5.71 *	5.62 *	5.54 *	5.44 *	6.63 *
	2.92 *	5.84 *	5.82 *	5.79 *	5.75 *	5.68 *	5.61 *	5.52 *	5.42 *	6.61 *

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LUMENS TABULATION - (Cont.)

-5	2.91 *	5.81 *	5.80 *	5.77 *	5.72 *	5.66 *	5.58 *	5.49 *	5.40 *	6.58 *
-7	2.89 *	5.78 *	5.77 *	5.73 *	5.68 *	5.62 *	5.55 *	5.46 *	5.37 *	6.54 *
-9	2.87 *	5.75 *	5.73 *	5.70 *	5.65 *	5.59 *	5.51 *	5.43 *	5.33 *	6.50 *
-11	2.85 *	5.70 *	5.69 *	5.65 *	5.61 *	5.54 *	5.47 *	5.38 *	5.28 *	6.44 *
-13	2.83 *	5.65 *	5.63 *	5.61 *	5.56 *	5.50 *	5.42 *	5.33 *	5.24 *	6.39 *
-15	2.80 *	5.59 *	5.58 *	5.55 *	5.50 *	5.44 *	5.37 *	5.28 *	5.18 *	6.32 *
-17	3.45 *	6.90 *	6.88 *	6.84 *	6.79 *	6.71 *	6.62 *	6.51 *	6.39 *	7.78 *
-19.5	4.07 *	8.13 *	8.11 *	8.06 *	7.99 *	7.90 *	7.80 *	7.67 *	7.52 *	9.16 *
-22.5	3.98 *	7.95 *	7.92 *	7.87 *	7.81 *	7.72 *	7.62 *	7.49 *	7.34 *	8.95 *
-25.5	4.50 *	9.00 *	8.97 *	8.92 *	8.85 *	8.75 *	8.63 *	8.49 *	8.32 *	10.14 *
-29	4.95 *	9.89 *	9.85 *	9.79 *	9.71 *	9.61 *	9.48 *	9.32 *	9.14 *	11.13 *
-33	5.27 *	10.52 *	10.49 *	10.43 *	10.35 *	10.23 *	10.09 *	9.93 *	9.74 *	11.86 *
-37.5	5.42 *	10.84 *	10.81 *	10.76 *	10.67 *	10.55 *	10.41 *	10.24 *	10.04 *	12.23 *
-42.5	4.93 *	9.85 *	9.83 *	9.77 *	9.69 *	9.58 *	9.45 *	9.29 *	9.10 *	11.08 *
-47.5	6.31 *	12.61 *	12.58 *	12.50 *	12.39 *	12.25 *	12.08 *	11.86 *	11.62 *	14.13 *
-55	5.83 *	11.68 *	11.66 *	11.59 *	11.50 *	11.37 *	11.20 *	11.00 *	10.75 *	13.01 *
-65	2.59 *	5.20 *	5.21 *	5.18 *	5.14 *	5.08 *	5.01 *	4.91 *	4.79 *	5.75 *
-75	0.56	1.12	1.13	1.13	1.11	1.10	1.08	1.06	1.03	1.23
-85	0.03	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.06
-90										
Total	153.07	306.02	305.17	303.45	300.93	297.56	293.41	288.47	282.71	344.17

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	0.05	0.05	0.06	0.07	0.05
85	0.64	0.65	0.79	0.88	0.88	0.76	0.59	0.70	0.59	0.24
75	5.43 *	5.18 *	5.70 *	5.97 *	5.94 *	5.50 *	4.26	4.24	2.65	0.72
65	14.51 *	13.79 *	15.03 *	15.75 *	15.73 *	14.78 *	11.75 *	12.05 *	7.77 *	2.07
55	16.55 *	15.77 *	17.28 *	18.18 *	18.24 *	17.32 *	14.07 *	15.06 *	10.34 *	2.95
47.5	13.17 *	12.56 *	13.79 *	14.52 *	14.62 *	14.01 *	11.55 *	12.67 *	9.04 *	2.72 *

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LUMENS TABULATION - (Cont.)

42.5	14.52 *	13.86 *	15.24 *	16.08 *	16.23 *	15.59 *	12.95 *	14.43 *	10.53 *	3.29 *
37.5	14.08 *	13.45 *	14.81 *	15.64 *	15.81 *	15.23 *	12.68 *	14.24 *	10.58 *	3.43 *
33	13.21 *	12.63 *	13.92 *	14.72 *	14.90 *	14.38 *	12.01 *	13.54 *	10.21 *	3.39 *
29	12.02 *	11.50 *	12.68 *	13.41 *	13.60 *	13.15 *	11.01 *	12.45 *	9.47 *	3.21 *
25.5	10.60 *	10.14 *	11.19 *	11.84 *	12.01 *	11.64 *	9.76 *	11.06 *	8.47 *	2.91 *
22.5	10.84 *	10.37 *	11.44 *	12.12 *	12.30 *	11.93 *	10.01 *	11.37 *	8.76 *	3.04 *
19.5	9.19 *	8.79 *	9.70 *	10.28 *	10.44 *	10.12 *	8.50 *	9.68 *	7.49 *	2.62 *
17	7.43 *	7.12 *	7.85 *	8.33 *	8.46 *	8.20 *	6.90 *	7.86 *	6.10 *	2.15 *
15	7.50 *	7.18 *	7.93 *	8.40 *	8.54 *	8.28 *	6.97 *	7.95 *	6.17 *	2.18 *
13	7.55 *	7.23 *	7.99 *	8.47 *	8.60 *	8.35 *	7.03 *	8.02 *	6.24 *	2.21 *
11	7.60 *	7.28 *	8.04 *	8.52 *	8.66 *	8.40 *	7.08 *	8.08 *	6.29 *	2.24 *
9	7.64 *	7.31 *	8.08 *	8.57 *	8.71 *	8.45 *	7.12 *	8.13 *	6.34 *	2.25 *
7	7.66 *	7.34 *	8.11 *	8.60 *	8.74 *	8.48 *	7.15 *	8.17 *	6.37 *	2.27 *
5	7.68 *	7.36 *	8.13 *	8.62 *	8.76 *	8.50 *	7.17 *	8.20 *	6.40 *	2.28 *
3	7.69 *	7.37 *	8.14 *	8.63 *	8.77 *	8.51 *	7.17 *	8.22 *	6.42 *	2.29 *
1	3.85 *	3.69 *	4.07 *	4.32 *	4.39 *	4.26 *	3.59 *	4.11 *	3.21 *	1.14 *
0	3.85 *	3.68 *	4.07 *	4.32 *	4.39 *	4.25 *	3.59 *	4.11 *	3.21 *	1.14 *
-1	7.68 *	7.36 *	8.13 *	8.62 *	8.76 *	8.50 *	7.16 *	8.21 *	6.41 *	2.29 *
-3	7.66 *	7.33 *	8.10 *	8.59 *	8.74 *	8.47 *	7.14 *	8.18 *	6.39 *	2.28 *
-5	7.62 *	7.30 *	8.06 *	8.55 *	8.70 *	8.44 *	7.11 *	8.14 *	6.35 *	2.27 *
-7	7.58 *	7.26 *	8.02 *	8.51 *	8.66 *	8.40 *	7.07 *	8.09 *	6.31 *	2.25 *
-9	7.53 *	7.21 *	7.96 *	8.45 *	8.60 *	8.34 *	7.03 *	8.04 *	6.26 *	2.23 *
-11	7.47 *	7.15 *	7.90 *	8.38 *	8.52 *	8.27 *	6.97 *	7.97 *	6.20 *	2.20 *
-13	7.40 *	7.08 *	7.82 *	8.30 *	8.44 *	8.19 *	6.90 *	7.88 *	6.13 *	2.17 *
-15	7.32 *	7.00 *	7.73 *	8.21 *	8.35 *	8.10 *	6.82 *	7.79 *	6.04 *	2.14 *
-17	9.02 *	8.63 *	9.54 *	10.12 *	10.29 *	9.98 *	8.40 *	9.59 *	7.42 *	2.61 *
-19.5	10.61 *	10.16 *	11.22 *	11.91 *	12.10 *	11.73 *	9.87 *	11.24 *	8.67 *	3.03 *
-22.5	10.36 *	9.92 *	10.95 *	11.61 *	11.79 *	11.43 *	9.61 *	10.92 *	8.38 *	2.90 *

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LUMENS TABULATION - (Cont.)

-25.5	11.74 *	11.23 *	12.39 *	13.12 *	13.32 *	12.90 *	10.82 *	12.26 *	9.35 *	3.20 *
-29	12.89 *	12.32 *	13.57 *	14.36 *	14.56 *	14.09 *	11.78 *	13.31 *	10.05 *	3.38 *
-33	13.73 *	13.11 *	14.43 *	15.24 *	15.42 *	14.88 *	12.42 *	13.98 *	10.40 *	3.41 *
-37.5	14.15 *	13.50 *	14.83 *	15.64 *	15.79 *	15.20 *	12.66 *	14.15 *	10.34 *	3.28 *
-42.5	12.81 *	12.21 *	13.40 *	14.10 *	14.21 *	13.64 *	11.28 *	12.47 *	8.92 *	2.71 *
-47.5	16.31 *	15.54 *	17.03 *	17.87 *	17.92 *	17.08 *	14.02 *	15.11 *	10.38 *	3.02
-55	14.95 *	14.22 *	15.58 *	16.29 *	16.18 *	15.19 *	12.17 *	12.59 *	8.20 *	2.25
-65	6.55 *	6.21 *	6.79 *	7.06 *	6.93 *	6.35 *	4.88 *	4.88	3.08	0.84
-75	1.40	1.32	1.44	1.48	1.44	1.30	1.02	1.05	0.71	0.26
-85	0.07	0.07	0.08	0.09	0.09	0.09	0.08	0.09	0.08	0.04
-90										
Total	398.12	380.42	418.99	442.68	447.62	430.73	358.14	400.36	298.79	99.57

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90				
	0.01	0.00		0.87
85				
	0.06	0.00		11.52
75				
	0.10	0.00		86.28
65				
	0.21	0.00		230.55
55				
	0.30	0.00		266.69
47.5				
	0.29	0.00		214.21
42.5				
	0.38	0.00		237.88
37.5				
	0.42	0.00		231.78
33				
	0.43	0.00		218.34
29				
	0.41	0.00		199.29
25.5				
	0.38	0.00		176.12
22.5				
	0.40	0.00		180.36
19.5				
	0.35	0.00		153.10
17				
	0.29	0.00		124.05
15				
	0.29	0.00		125.26

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LUMENS TABULATION - (Cont.)

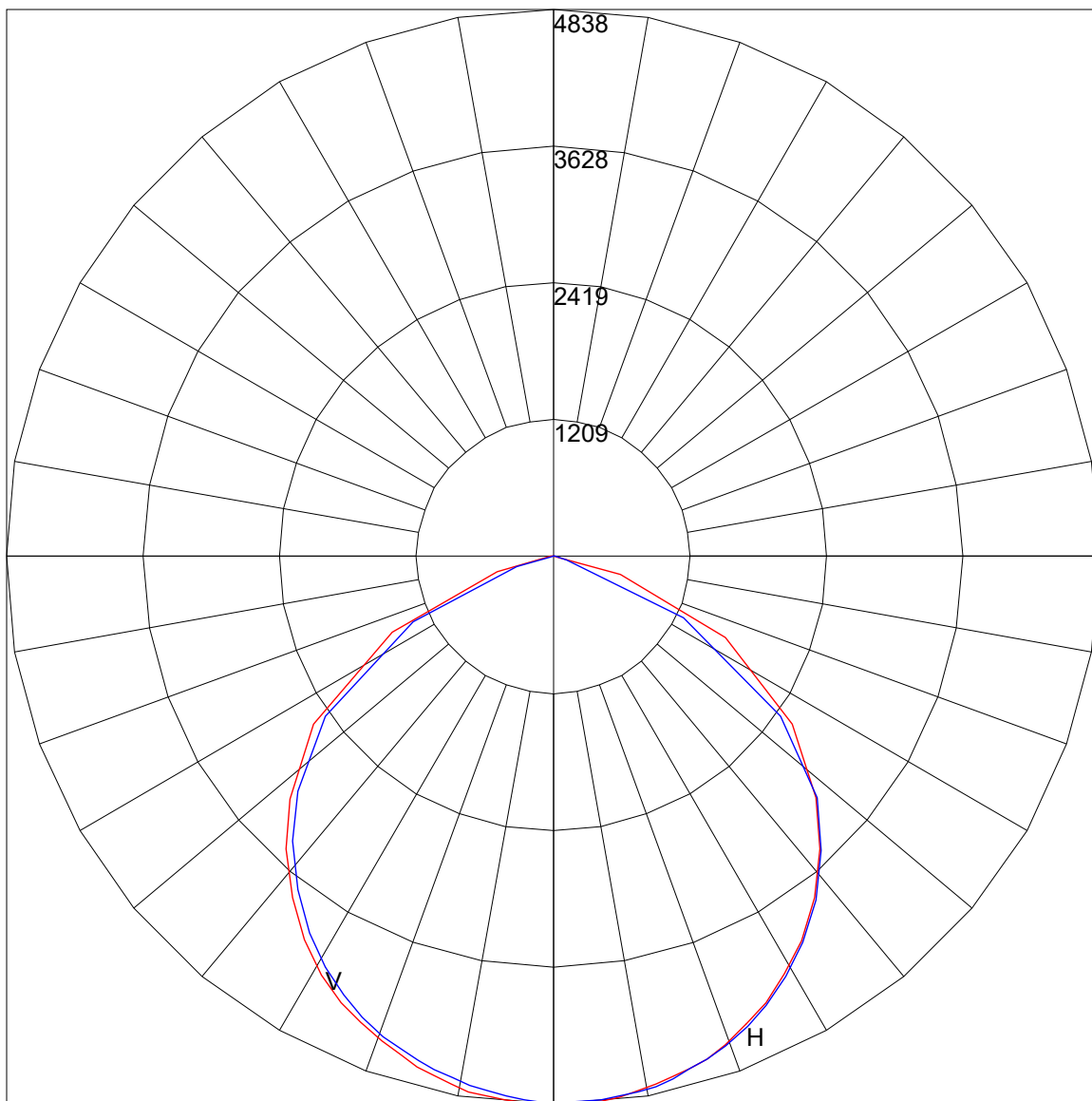
13	0.30	0.00	126.26
11	0.30	0.00	127.08
9	0.31	0.00	127.73
7	0.31	0.00	128.23
5	0.31	0.00	128.58
3	0.31	0.00	128.77
1	0.16	0.00	64.42
0	0.16	0.00	64.40
-1	0.31	0.00	128.57
-3	0.31	0.00	128.16
-5	0.31	0.00	127.59
-7	0.31	0.00	126.87
-9	0.31	0.00	125.99
-11	0.30	0.00	124.96
-13	0.30	0.00	123.77
-15	0.29	0.00	122.40
-17	0.35	0.00	150.82
-19.5	0.41	0.00	177.36
-22.5	0.39	0.00	172.89
-25.5	0.42	0.00	195.31
-29	0.44	0.00	213.63
-33	0.44	0.00	226.37
-37.5	0.40	0.00	231.91
-42.5	0.31	0.00	208.64
-47.5	0.32	0.00	262.93
-55	0.23	0.00	237.44
-65	0.11	0.00	102.55
-75	0.06	0.00	22.03

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LUMENS TABULATION - (Cont.)

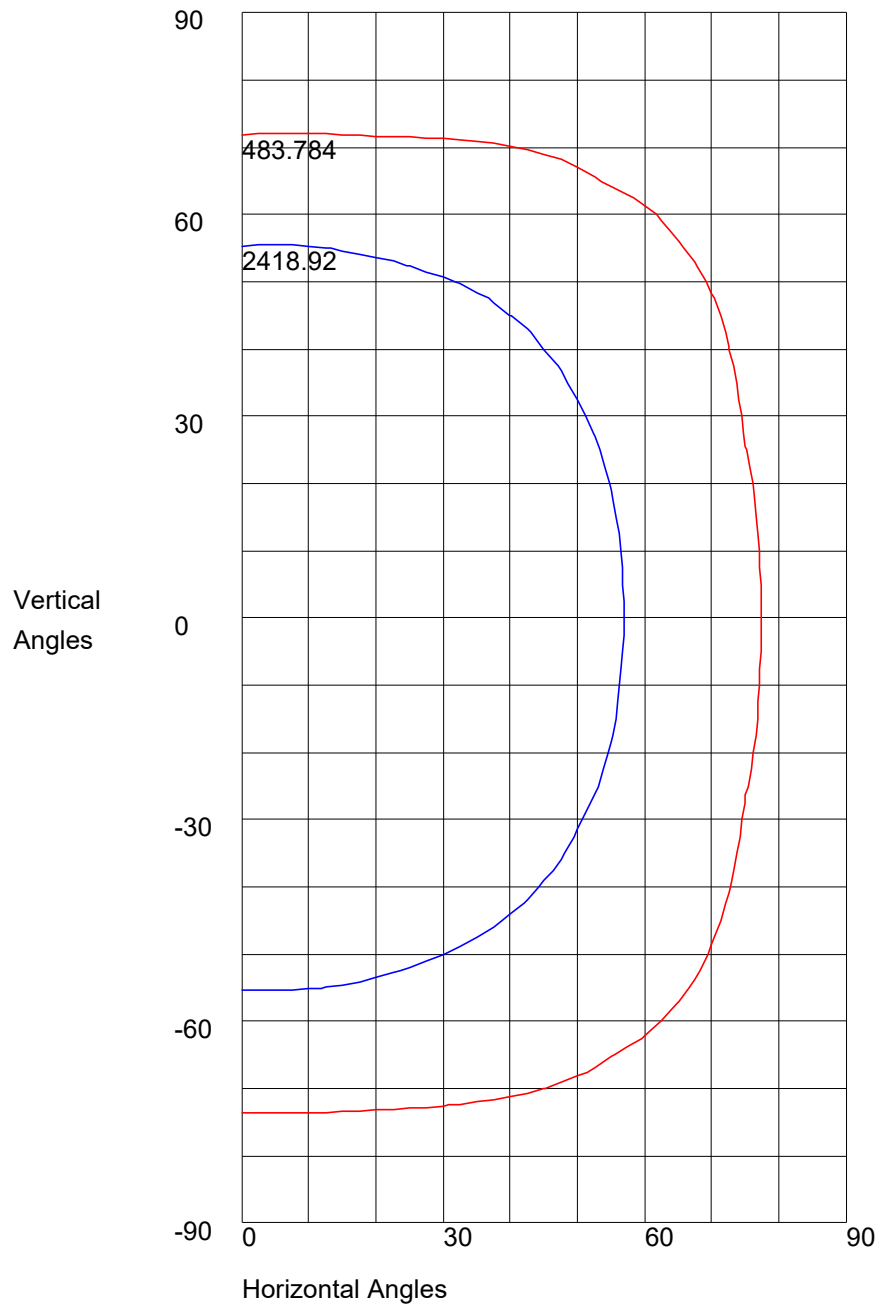
-85	0.01	0.00	1.30
-90			
Total	12.80	0.09	6563.26

AXIAL CANDELA DISPLAY



Maximum Candela = 4837.84 Located At Horizontal Angle = 3, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 4837.84 Located At Horizontal Angle = 3, Vertical Angle = 0
50% Maximum Candela = 2418.92
10% Maximum Candela = 483.784