



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] BLC2005004E-A
[ISSUEDATE] 2020-5-10 13:45
[MANUFAC] LumenFocus, LLC.
[LUMCAT] FLK VL 77 UV 8SEL [4000K]
[LUMINAIRE]
[LAMPCAT]
[LAMP]
[_VOLTAGE] 120.0 V
[_CURRENT] 0.1393 A
[_POWERFACTOR] 0.991
[_THD] 8.82
[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	846.03
Maximum Candela Angle	3H 3V
Horizontal Beam Angle (50%)	115.4
Vertical Beam Angle (50%)	113.8
Horizontal Field Angle (10%)	157.0
Vertical Field Angle (10%)	150.3
Lumens Per Lamp	2373.89 (1 lamp)
Total Lamp Lumens	2373.89
Beam Lumens	1823
Beam Efficiency	77 %
Field Lumens	2341
Field Efficiency	99 %
Spill Lumens	34
Luminaire Lumens	2375
Total Efficiency	100 %
Total Luminaire Watts	16.6
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.014	90	.029
85	3.959	85	2.933
75	145.605	75	64.053
65	317.551	65	308.377
55	473.918	55	470.643
47.5	570.537	47.5	570.443
42.5	622.638	42.5	627.02
37.5	675.112	37.5	675.543
33	712.387	33	714.24
29	742.578	29	742.986
25.5	761.902	25.5	767.316
22.5	783.943	22.5	784.026
19.5	799.259	19.5	799.491
17	809.409	17	812.629
15	816.775	15	819.399
13	819.741	13	825.011
11	824.648	11	832.168
9	830.646	9	838.563
7	835.211	7	840.349
5	837.196	5	840.063
3	837.67	3	843.723
1	840.283	1	844.065
0	843.58	0	843.58
-1	841.617	-1	842.555
-3	840.371	-3	842.158
-5	836.181	-5	837.857
-7	834.219	-7	836.06
-9	834.924	-9	830.47
-11	831.286	-11	824.129
-13	827.625	-13	816.234
-15	820.777	-15	809.133
-17	812.276	-17	800.334
-19.5	802.689	-19.5	788.701
-22.5	787.185	-22.5	773.617
-25.5	769.554	-25.5	757.155
-29	746.911	-29	733.558
-33	721.065	-33	698.35
-37.5	680.681	-37.5	654.239
-42.5	624.374	-42.5	604.521
-47.5	565.118	-47.5	543.087
-55	457.962	-55	433.693
-65	296.083	-65	278.176
-75	114.951	-75	91.244
-85	1.897	-85	5.028
-90	.009	-90	.023

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 1187.74

Total Field Lumens (one side of beam only) = 1170.6

* 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
75	0.10	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.24
65	0.57 *	1.14 *	1.14 *	1.13 *	1.12 *	1.11 *	1.09 *	1.06 *	1.04 *	1.25 *
55	1.19 *	2.37 *	2.36 *	2.34 *	2.32 *	2.29 *	2.25 *	2.21 *	2.16 *	2.62 *
47.5	1.19 *	2.37 *	2.36 *	2.35 *	2.33 *	2.30 *	2.26 *	2.22 *	2.18 *	2.65 *
42.5	0.91 *	1.82 *	1.81 *	1.80 *	1.79 *	1.76 *	1.74 *	1.71 *	1.68 *	2.04 *
37.5	0.99 *	1.98 *	1.97 *	1.96 *	1.95 *	1.92 *	1.90 *	1.87 *	1.83 *	2.23 *
33	0.95 *	1.90 *	1.90 *	1.89 *	1.87 *	1.85 *	1.83 *	1.80 *	1.77 *	2.16 *
29	0.89 *	1.77 *	1.77 *	1.76 *	1.75 *	1.73 *	1.71 *	1.68 *	1.65 *	2.02 *
25.5	0.81 *	1.61 *	1.61 *	1.60 *	1.59 *	1.57 *	1.55 *	1.53 *	1.50 *	1.84 *
22.5	0.71 *	1.42 *	1.41 *	1.41 *	1.40 *	1.38 *	1.37 *	1.35 *	1.32 *	1.62 *
19.5	0.72 *	1.45 *	1.44 *	1.44 *	1.43 *	1.41 *	1.40 *	1.38 *	1.35 *	1.66 *
17	0.61 *	1.23 *	1.22 *	1.22 *	1.21 *	1.20 *	1.18 *	1.17 *	1.15 *	1.40 *
15	0.50 *	0.99 *	0.99 *	0.98 *	0.98 *	0.97 *	0.96 *	0.95 *	0.93 *	1.13 *
13	0.50 *	1.00 *	1.00 *	0.99 *	0.99 *	0.98 *	0.97 *	0.95 *	0.94 *	1.14 *
11	0.50 *	1.01 *	1.01 *	1.00 *	1.00 *	0.99 *	0.98 *	0.96 *	0.94 *	1.15 *
9	0.51 *	1.02 *	1.01 *	1.01 *	1.01 *	1.00 *	0.99 *	0.98 *	0.95 *	1.15 *
7	0.51 *	1.02 *	1.02 *	1.01 *	1.01 *	1.00 *	0.98 *	0.97 *	0.95 *	1.16 *
5	0.51 *	1.02 *	1.02 *	1.02 *	1.01 *	1.00 *	0.99 *	0.97 *	0.95 *	1.16 *
3	0.51 *	1.03 *	1.02 *	1.02 *	1.01 *	1.00 *	0.99 *	0.97 *	0.95 *	1.17 *
1	0.26 *	0.51 *	0.51 *	0.51 *	0.50 *	0.50 *	0.49 *	0.49 *	0.48 *	0.58 *
0	0.26 *	0.51 *	0.51 *	0.51 *	0.50 *	0.50 *	0.49 *	0.49 *	0.48 *	0.58 *
-1	0.51 *	1.02 *	1.02 *	1.01 *	1.00 *	0.99 *	0.98 *	0.97 *	0.95 *	1.16 *
-3	0.51 *	1.02 *	1.01 *	1.01 *	1.00 *	0.99 *	0.98 *	0.96 *	0.95 *	1.16 *

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LUMENS TABULATION - (Cont.)

-5	0.51 *	1.01 *	1.01 *	1.00 *	0.99 *	0.98 *	0.97 *	0.96 *	0.94 *	1.15 *
-7	0.51 *	1.01 *	1.00 *	1.00 *	0.99 *	0.98 *	0.97 *	0.95 *	0.94 *	1.14 *
-9	0.50 *	1.00 *	1.00 *	0.99 *	0.98 *	0.97 *	0.96 *	0.94 *	0.93 *	1.13 *
-11	0.50 *	1.00 *	0.99 *	0.98 *	0.98 *	0.96 *	0.95 *	0.93 *	0.92 *	1.12 *
-13	0.49 *	0.99 *	0.98 *	0.98 *	0.97 *	0.95 *	0.94 *	0.92 *	0.91 *	1.11 *
-15	0.49 *	0.98 *	0.97 *	0.97 *	0.96 *	0.94 *	0.93 *	0.92 *	0.90 *	1.10 *
-17	0.60 *	1.21 *	1.20 *	1.19 *	1.18 *	1.17 *	1.15 *	1.13 *	1.11 *	1.35 *
-19.5	0.71 *	1.42 *	1.42 *	1.41 *	1.39 *	1.37 *	1.36 *	1.33 *	1.31 *	1.59 *
-22.5	0.70 *	1.39 *	1.39 *	1.38 *	1.36 *	1.34 *	1.32 *	1.30 *	1.28 *	1.55 *
-25.5	0.79 *	1.58 *	1.57 *	1.56 *	1.55 *	1.52 *	1.50 *	1.47 *	1.44 *	1.76 *
-29	0.87 *	1.74 *	1.73 *	1.71 *	1.70 *	1.67 *	1.65 *	1.62 *	1.59 *	1.93 *
-33	0.93 *	1.85 *	1.84 *	1.83 *	1.81 *	1.78 *	1.76 *	1.72 *	1.69 *	2.06 *
-37.5	0.96 *	1.91 *	1.90 *	1.89 *	1.87 *	1.84 *	1.81 *	1.78 *	1.74 *	2.12 *
-42.5	0.87 *	1.74 *	1.73 *	1.72 *	1.70 *	1.67 *	1.64 *	1.61 *	1.57 *	1.91 *
-47.5	1.12 *	2.23 *	2.21 *	2.19 *	2.17 *	2.14 *	2.10 *	2.06 *	2.01 *	2.44 *
-55	1.08 *	2.17 *	2.16 *	2.14 *	2.11 *	2.08 *	2.05 *	2.01 *	1.96 *	2.38 *
-65	0.56 *	1.13 *	1.13 *	1.12 *	1.10 *	1.09 *	1.07 *	1.05 *	1.02 *	1.24 *
-75	0.15	0.30	0.30	0.30	0.29	0.29	0.28	0.28	0.27	0.32
-85	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-90	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	27.60	55.12	54.90	54.53	54.04	53.41	52.67	51.79	50.77	61.85

Vert. Horizontal Angles

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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
85	0.27	0.25	0.28	0.29	0.29	0.26	0.19	0.18	0.10	0.04
75	1.44 *	1.36 *	1.47 *	1.51 *	1.48 *	1.37 *	1.08 *	1.08 *	0.65	0.16
65	3.02 *	2.86 *	3.11 *	3.24 *	3.21 *	3.02 *	2.45 *	2.61 *	1.77 *	0.48
55	3.06 *	2.92 *	3.21 *	3.37 *	3.38 *	3.22 *	2.64 *	2.89 *	2.11 *	0.65 *
47.5	2.37 *	2.26 *	2.49 *	2.63 *	2.65 *	2.54 *	2.10 *	2.32 *	1.74 *	0.58 *

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LUMENS TABULATION - (Cont.)

42.5	2.59 *	2.48 *	2.74 *	2.90 *	2.93 *	2.81 *	2.33 *	2.61 *	1.98 *	0.69 *
37.5	2.50 *	2.40 *	2.65 *	2.80 *	2.84 *	2.73 *	2.27 *	2.56 *	1.96 *	0.70 *
33	2.34 *	2.25 *	2.48 *	2.63 *	2.66 *	2.57 *	2.15 *	2.43 *	1.88 *	0.68 *
29	2.13 *	2.04 *	2.25 *	2.39 *	2.42 *	2.34 *	1.96 *	2.23 *	1.74 *	0.64 *
25.5	1.88 *	1.80 *	1.98 *	2.10 *	2.13 *	2.06 *	1.73 *	1.98 *	1.55 *	0.58 *
22.5	1.92 *	1.84 *	2.02 *	2.14 *	2.18 *	2.11 *	1.78 *	2.03 *	1.60 *	0.60 *
19.5	1.63 *	1.55 *	1.71 *	1.82 *	1.85 *	1.79 *	1.51 *	1.73 *	1.36 *	0.52 *
17	1.31 *	1.26 *	1.38 *	1.47 *	1.50 *	1.45 *	1.23 *	1.41 *	1.11 *	0.42 *
15	1.32 *	1.26 *	1.40 *	1.48 *	1.51 *	1.47 *	1.24 *	1.42 *	1.13 *	0.43 *
13	1.33 *	1.27 *	1.41 *	1.49 *	1.52 *	1.48 *	1.25 *	1.44 *	1.14 *	0.44 *
11	1.34 *	1.28 *	1.41 *	1.50 *	1.53 *	1.49 *	1.26 *	1.45 *	1.15 *	0.44 *
9	1.34 *	1.29 *	1.42 *	1.51 *	1.54 *	1.50 *	1.27 *	1.46 *	1.16 *	0.45 *
7	1.35 *	1.29 *	1.43 *	1.52 *	1.55 *	1.51 *	1.27 *	1.47 *	1.17 *	0.45 *
5	1.35 *	1.29 *	1.43 *	1.52 *	1.56 *	1.51 *	1.28 *	1.47 *	1.17 *	0.45 *
3	1.35 *	1.29 *	1.43 *	1.52 *	1.56 *	1.52 *	1.28 *	1.48 *	1.18 *	0.45 *
1	0.68 *	0.65 *	0.72 *	0.76 *	0.78 *	0.76 *	0.64 *	0.74 *	0.59 *	0.23 *
0	0.68 *	0.65 *	0.72 *	0.76 *	0.78 *	0.76 *	0.64 *	0.74 *	0.59 *	0.23 *
-1	1.35 *	1.29 *	1.43 *	1.52 *	1.55 *	1.51 *	1.28 *	1.47 *	1.17 *	0.45 *
-3	1.34 *	1.28 *	1.42 *	1.51 *	1.55 *	1.51 *	1.27 *	1.47 *	1.17 *	0.45 *
-5	1.33 *	1.28 *	1.41 *	1.50 *	1.54 *	1.50 *	1.27 *	1.46 *	1.16 *	0.45 *
-7	1.33 *	1.27 *	1.40 *	1.49 *	1.52 *	1.49 *	1.26 *	1.45 *	1.15 *	0.45 *
-9	1.31 *	1.26 *	1.39 *	1.48 *	1.51 *	1.47 *	1.25 *	1.43 *	1.14 *	0.44 *
-11	1.30 *	1.25 *	1.38 *	1.46 *	1.50 *	1.46 *	1.24 *	1.42 *	1.13 *	0.44 *
-13	1.29 *	1.23 *	1.36 *	1.45 *	1.48 *	1.44 *	1.22 *	1.40 *	1.11 *	0.43 *
-15	1.27 *	1.22 *	1.35 *	1.43 *	1.46 *	1.42 *	1.20 *	1.38 *	1.10 *	0.42 *
-17	1.57 *	1.50 *	1.66 *	1.76 *	1.80 *	1.75 *	1.48 *	1.70 *	1.35 *	0.52 *
-19.5	1.84 *	1.76 *	1.95 *	2.07 *	2.11 *	2.06 *	1.74 *	1.99 *	1.57 *	0.60 *
-22.5	1.80 *	1.72 *	1.90 *	2.01 *	2.05 *	2.00 *	1.69 *	1.93 *	1.52 *	0.58 *

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LUMENS TABULATION - (Cont.)

-25.5	2.03 *	1.94 *	2.14 *	2.27 *	2.32 *	2.25 *	1.90 *	2.17 *	1.70 *	0.64 *
-29	2.23 *	2.13 *	2.34 *	2.49 *	2.53 *	2.46 *	2.07 *	2.36 *	1.84 *	0.68 *
-33	2.38 *	2.26 *	2.49 *	2.63 *	2.67 *	2.60 *	2.18 *	2.48 *	1.92 *	0.69 *
-37.5	2.45 *	2.33 *	2.56 *	2.70 *	2.74 *	2.66 *	2.22 *	2.51 *	1.93 *	0.68 *
-42.5	2.21 *	2.11 *	2.32 *	2.45 *	2.48 *	2.39 *	1.99 *	2.23 *	1.69 *	0.57 *
-47.5	2.82 *	2.69 *	2.96 *	3.12 *	3.15 *	3.02 *	2.50 *	2.77 *	2.05 *	0.65 *
-55	2.75 *	2.62 *	2.87 *	3.01 *	3.01 *	2.85 *	2.33 *	2.52 *	1.76 *	0.49
-65	1.42 *	1.34 *	1.46 *	1.53 *	1.51 *	1.41 *	1.12 *	1.15 *	0.70	0.16
-75	0.37	0.35	0.38	0.40	0.39	0.36	0.28	0.26	0.13	0.04
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total	71.60	68.40	75.31	79.66	80.73	77.91	65.06	73.28	56.13	20.12

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90	0.00	0.00	0.13	
85	0.01	0.00	4.16	
75	0.02	0.00	22.25	
65	0.04	0.00	47.92	
55	0.07	0.00	49.72	
47.5	0.07	0.00	38.81	
42.5	0.09	0.00	42.74	
37.5	0.10	0.00	41.43	
33	0.10	0.00	38.89	
29	0.09	0.00	35.42	
25.5	0.09	0.00	31.26	
22.5	0.09	0.00	31.99	
19.5	0.08	0.00	27.14	
17	0.06	0.00	21.98	
15	0.07	0.00	22.19	

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LUMENS TABULATION - (Cont.)

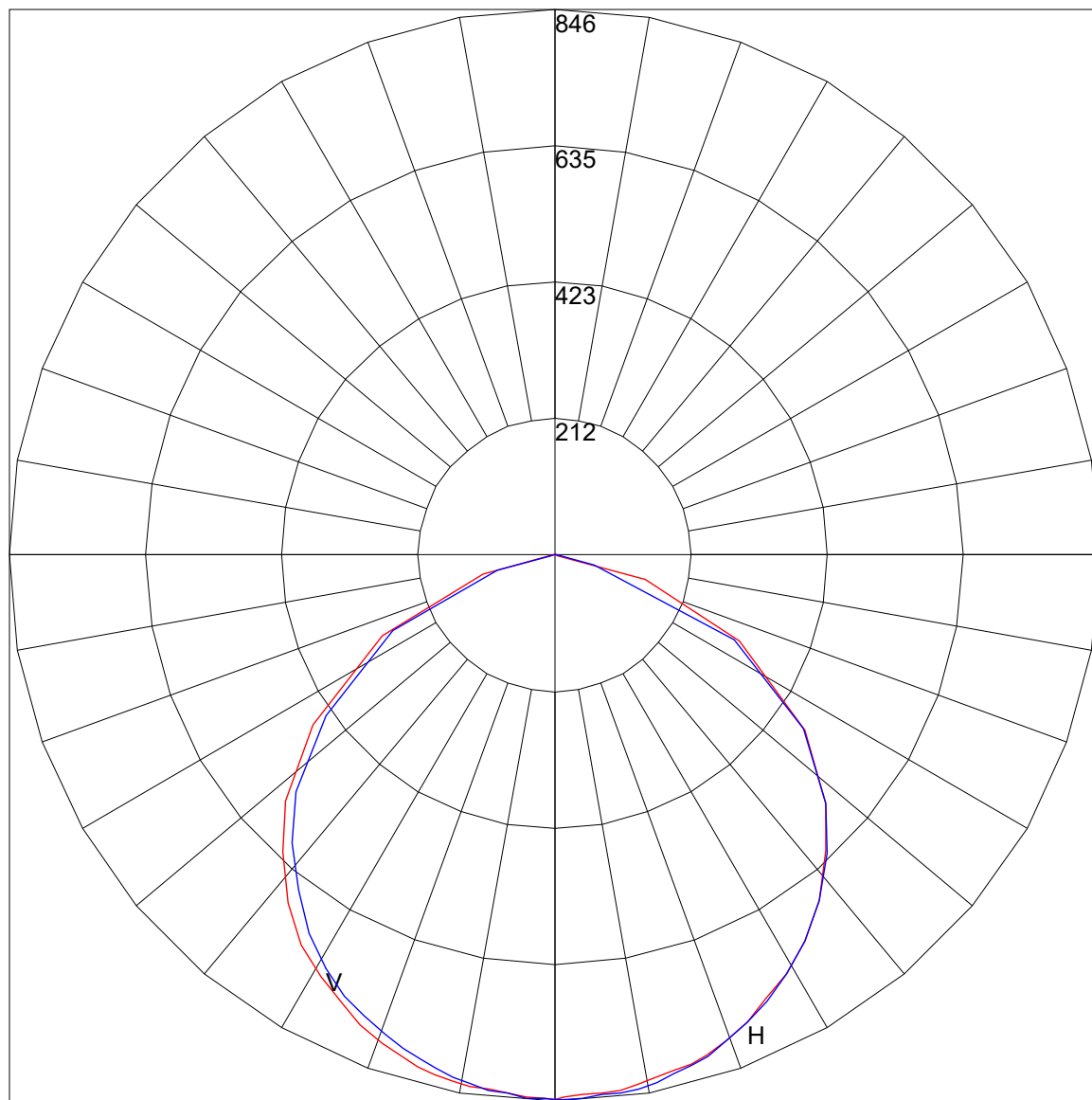
13	0.07	0.00	22.36
11	0.07	0.00	22.51
9	0.07	0.00	22.63
7	0.07	0.00	22.71
5	0.07	0.00	22.77
3	0.07	0.00	22.80
1	0.04	0.00	11.40
0	0.04	0.00	11.39
-1	0.07	0.00	22.73
-3	0.07	0.00	22.63
-5	0.07	0.00	22.50
-7	0.07	0.00	22.35
-9	0.07	0.00	22.17
-11	0.07	0.00	21.97
-13	0.07	0.00	21.73
-15	0.06	0.00	21.47
-17	0.08	0.00	26.45
-19.5	0.09	0.00	31.09
-22.5	0.09	0.00	30.30
-25.5	0.09	0.00	34.22
-29	0.10	0.00	37.42
-33	0.10	0.00	39.66
-37.5	0.09	0.00	40.69
-42.5	0.07	0.00	36.68
-47.5	0.07	0.00	46.48
-55	0.04	0.00	44.38
-65	0.02	0.00	22.34
-75	0.01	0.00	5.72

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LUMENS TABULATION - (Cont.)

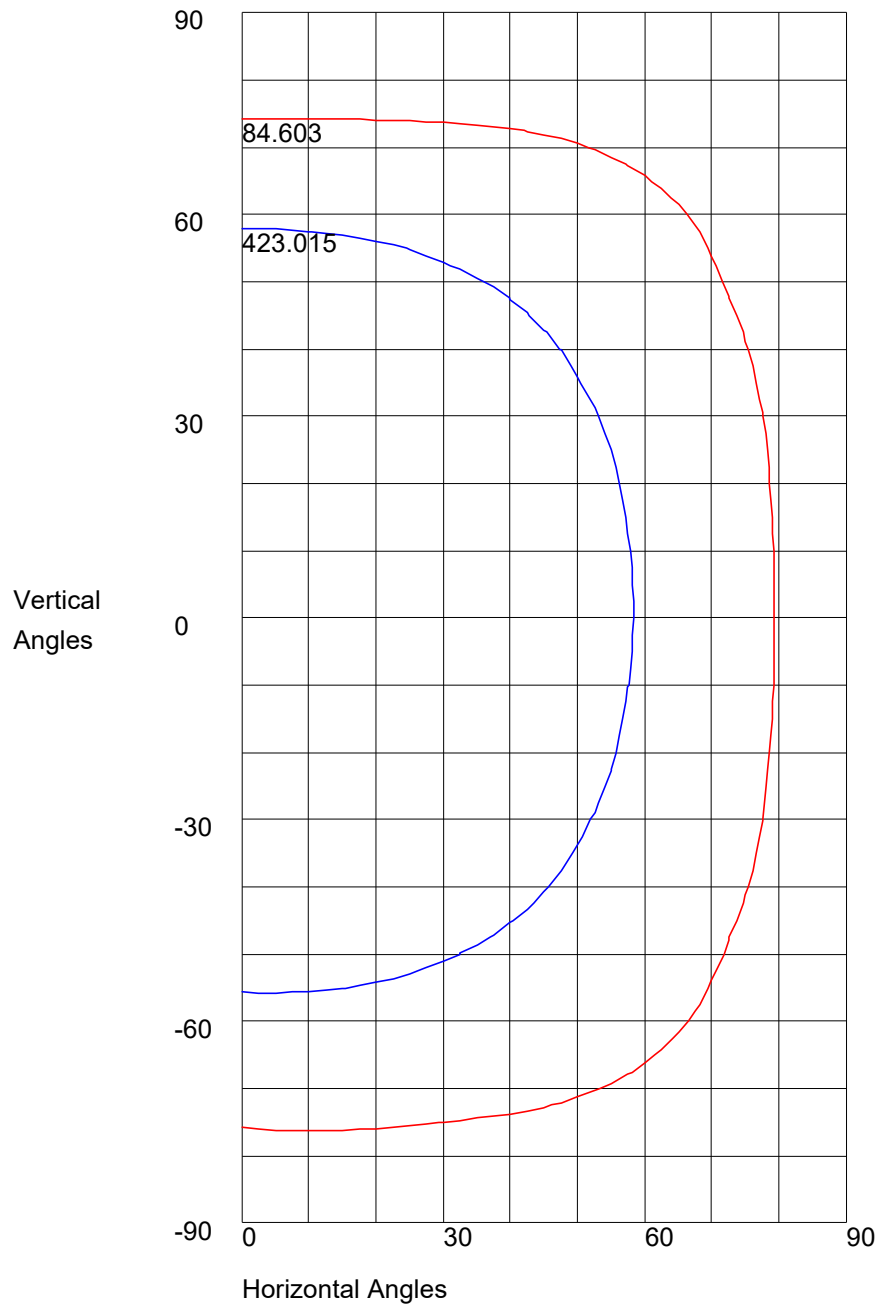
-85	0.00	0.00	0.17
-90			
Total	2.84	0.01	1187.74

AXIAL CANDELA DISPLAY



Maximum Candela = 846.03 Located At Horizontal Angle = 3, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 846.03 Located At Horizontal Angle = 3, Vertical Angle = 3
50% Maximum Candela = 423.015
10% Maximum Candela = 84.603