



IES FLOOD REPORT

PHOTOMETRIC FILENAME : FLK VL 77 UV 8SEL [5000K].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 [5000K]
[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	828.638
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	2325.092 (1 lamp)
Total Lamp Lumens	2325.092
Beam Lumens	1786
Beam Efficiency	77 %
Field Lumens	2293
Field Efficiency	99 %
Spill Lumens	34
Luminaire Lumens	2327
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	.028
85	3.877	85	2.873
75	142.611	75	62.736
65	311.024	65	302.038
55	464.176	55	460.968
47.5	558.809	47.5	558.718
42.5	609.839	42.5	614.131
37.5	661.235	37.5	661.656
33	697.743	33	699.558
29	727.313	29	727.713
25.5	746.24	25.5	751.543
22.5	767.829	22.5	767.91
19.5	782.83	19.5	783.057
17	792.771	17	795.924
15	799.985	15	802.555
13	802.89	13	808.053
11	807.696	11	815.062
9	813.571	9	821.326
7	818.042	7	823.075
5	819.986	5	822.794
3	820.451	3	826.38
1	823.01	1	826.715
0	826.239	0	826.239
-1	824.317	-1	825.235
-3	823.097	-3	824.846
-5	818.993	-5	820.634
-7	817.07	-7	818.874
-9	817.762	-9	813.398
-11	814.198	-11	807.189
-13	810.612	-13	799.456
-15	803.905	-15	792.501
-17	795.579	-17	783.883
-19.5	786.188	-19.5	772.489
-22.5	771.004	-22.5	757.715
-25.5	753.735	-25.5	741.591
-29	731.558	-29	718.479
-33	706.243	-33	683.995
-37.5	666.689	-37.5	640.791
-42.5	611.539	-42.5	592.094
-47.5	553.501	-47.5	531.923
-55	448.548	-55	424.778
-65	289.996	-65	272.458
-75	112.588	-75	89.368
-85	1.858	-85	4.925
-90	.009	-90	.023

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 1163.33

Total Field Lumens (one side of beam only) = 1146.54

* 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	0.20	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.19
65	0.56 *	1.11 *	1.11 *	1.11 *	1.10 *	1.08 *	1.06 *	1.04 *	1.02 *	1.23 *
55	1.16 *	2.32 *	2.31 *	2.29 *	2.27 *	2.24 *	2.21 *	2.16 *	2.12 *	2.57 *
47.5	1.16 *	2.33 *	2.32 *	2.30 *	2.28 *	2.25 *	2.22 *	2.18 *	2.13 *	2.60 *
42.5	0.89 *	1.78 *	1.78 *	1.76 *	1.75 *	1.73 *	1.70 *	1.67 *	1.64 *	2.00 *
37.5	0.97 *	1.94 *	1.93 *	1.92 *	1.91 *	1.88 *	1.86 *	1.83 *	1.79 *	2.19 *
33	0.93 *	1.86 *	1.86 *	1.85 *	1.83 *	1.81 *	1.79 *	1.76 *	1.73 *	2.11 *
29	0.87 *	1.74 *	1.73 *	1.72 *	1.71 *	1.69 *	1.67 *	1.65 *	1.62 *	1.98 *
25.5	0.79 *	1.58 *	1.57 *	1.56 *	1.55 *	1.54 *	1.52 *	1.50 *	1.47 *	1.80 *
22.5	0.69 *	1.39 *	1.38 *	1.38 *	1.37 *	1.35 *	1.34 *	1.32 *	1.30 *	1.59 *
19.5	0.71 *	1.42 *	1.41 *	1.41 *	1.40 *	1.38 *	1.37 *	1.35 *	1.33 *	1.62 *
17	0.60 *	1.20 *	1.20 *	1.19 *	1.18 *	1.17 *	1.16 *	1.14 *	1.12 *	1.37 *
15	0.49 *	0.97 *	0.97 *	0.96 *	0.96 *	0.95 *	0.94 *	0.93 *	0.91 *	1.11 *
13	0.49 *	0.98 *	0.98 *	0.97 *	0.97 *	0.96 *	0.95 *	0.93 *	0.92 *	1.12 *
11	0.49 *	0.99 *	0.98 *	0.98 *	0.97 *	0.97 *	0.96 *	0.94 *	0.92 *	1.12 *
9	0.50 *	0.99 *	0.99 *	0.99 *	0.98 *	0.97 *	0.96 *	0.94 *	0.93 *	1.13 *
7	0.50 *	1.00 *	1.00 *	0.99 *	0.99 *	0.98 *	0.96 *	0.95 *	0.93 *	1.13 *
5	0.50 *	1.00 *	1.00 *	1.00 *	0.99 *	0.98 *	0.96 *	0.95 *	0.93 *	1.14 *
3	0.50 *	1.01 *	1.00 *	1.00 *	0.99 *	0.98 *	0.97 *	0.95 *	0.93 *	1.14 *
1	0.25 *	0.50 *	0.50 *	0.50 *	0.49 *	0.49 *	0.48 *	0.48 *	0.47 *	0.57 *
0	0.25 *	0.50 *	0.50 *	0.50 *	0.49 *	0.49 *	0.48 *	0.48 *	0.47 *	0.57 *
-1	0.50 *	1.00 *	1.00 *	0.99 *	0.98 *	0.97 *	0.96 *	0.95 *	0.93 *	1.14 *
-3	0.50 *	1.00 *	0.99 *	0.99 *	0.98 *	0.97 *	0.96 *	0.94 *	0.93 *	1.13 *

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LUMENS TABULATION - (Cont.)

-5	0.50 *	0.99 *	0.99 *	0.98 *	0.97 *	0.96 *	0.95 *	0.94 *	0.92 *	1.13 *
-7	0.50 *	0.99 *	0.98 *	0.98 *	0.97 *	0.96 *	0.95 *	0.93 *	0.92 *	1.12 *
-9	0.49 *	0.98 *	0.98 *	0.97 *	0.96 *	0.95 *	0.94 *	0.92 *	0.91 *	1.11 *
-11	0.49 *	0.98 *	0.97 *	0.96 *	0.96 *	0.94 *	0.93 *	0.92 *	0.90 *	1.10 *
-13	0.48 *	0.97 *	0.96 *	0.96 *	0.95 *	0.94 *	0.92 *	0.91 *	0.89 *	1.09 *
-15	0.48 *	0.96 *	0.95 *	0.95 *	0.94 *	0.92 *	0.91 *	0.90 *	0.88 *	1.08 *
-17	0.59 *	1.18 *	1.18 *	1.17 *	1.16 *	1.14 *	1.13 *	1.11 *	1.09 *	1.32 *
-19.5	0.70 *	1.39 *	1.39 *	1.38 *	1.36 *	1.35 *	1.33 *	1.31 *	1.28 *	1.56 *
-22.5	0.68 *	1.37 *	1.36 *	1.35 *	1.33 *	1.32 *	1.30 *	1.28 *	1.25 *	1.52 *
-25.5	0.78 *	1.55 *	1.54 *	1.53 *	1.51 *	1.49 *	1.47 *	1.44 *	1.41 *	1.72 *
-29	0.85 *	1.70 *	1.69 *	1.68 *	1.66 *	1.64 *	1.61 *	1.58 *	1.55 *	1.89 *
-33	0.91 *	1.81 *	1.80 *	1.79 *	1.77 *	1.75 *	1.72 *	1.69 *	1.65 *	2.01 *
-37.5	0.94 *	1.87 *	1.86 *	1.85 *	1.83 *	1.80 *	1.78 *	1.74 *	1.71 *	2.07 *
-42.5	0.86 *	1.71 *	1.70 *	1.68 *	1.66 *	1.64 *	1.61 *	1.58 *	1.54 *	1.87 *
-47.5	1.09 *	2.18 *	2.17 *	2.15 *	2.12 *	2.09 *	2.06 *	2.02 *	1.97 *	2.39 *
-55	1.06 *	2.12 *	2.11 *	2.09 *	2.07 *	2.04 *	2.01 *	1.97 *	1.92 *	2.33 *
-65	0.55 *	1.10 *	1.10 *	1.09 *	1.08 *	1.07 *	1.05 *	1.03 *	1.00 *	1.21 *
-75	0.14	0.29	0.29	0.29	0.29	0.28	0.28	0.27	0.26	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	27.04	53.99	53.77	53.41	52.93	52.32	51.58	50.72	49.73	60.58

Vert. Horizontal Angles

Angles	19.5	22.5	25.5	29	33	37.5	42.5	47.5	55	65
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
85	0.26	0.25	0.28	0.29	0.29	0.26	0.19	0.17	0.10	0.04
75	1.41 *	1.33 *	1.44 *	1.48 *	1.45 *	1.34 *	1.06 *	1.06 *	0.64	0.15
65	2.96 *	2.80 *	3.05 *	3.17 *	3.14 *	2.96 *	2.40 *	2.55 *	1.73 *	0.47
55	3.00 *	2.86 *	3.14 *	3.30 *	3.31 *	3.15 *	2.58 *	2.83 *	2.07 *	0.63 *
47.5	2.32 *	2.22 *	2.44 *	2.58 *	2.60 *	2.49 *	2.05 *	2.28 *	1.70 *	0.56 *

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LUMENS TABULATION - (Cont.)

42.5	2.54 *	2.43 *	2.68 *	2.84 *	2.87 *	2.75 *	2.28 *	2.55 *	1.94 *	0.67 *
37.5	2.45 *	2.35 *	2.59 *	2.75 *	2.78 *	2.68 *	2.23 *	2.51 *	1.92 *	0.69 *
33	2.30 *	2.20 *	2.43 *	2.57 *	2.61 *	2.52 *	2.10 *	2.38 *	1.84 *	0.67 *
29	2.09 *	2.00 *	2.21 *	2.34 *	2.37 *	2.29 *	1.92 *	2.18 *	1.70 *	0.63 *
25.5	1.84 *	1.76 *	1.94 *	2.06 *	2.09 *	2.02 *	1.70 *	1.94 *	1.52 *	0.57 *
22.5	1.88 *	1.80 *	1.98 *	2.10 *	2.13 *	2.07 *	1.74 *	1.99 *	1.56 *	0.59 *
19.5	1.59 *	1.52 *	1.68 *	1.78 *	1.81 *	1.76 *	1.48 *	1.69 *	1.34 *	0.51 *
17	1.29 *	1.23 *	1.36 *	1.44 *	1.46 *	1.42 *	1.20 *	1.38 *	1.09 *	0.42 *
15	1.29 *	1.24 *	1.37 *	1.45 *	1.48 *	1.44 *	1.22 *	1.39 *	1.10 *	0.42 *
13	1.30 *	1.25 *	1.38 *	1.46 *	1.49 *	1.45 *	1.23 *	1.41 *	1.11 *	0.43 *
11	1.31 *	1.25 *	1.38 *	1.47 *	1.50 *	1.46 *	1.24 *	1.42 *	1.13 *	0.43 *
9	1.31 *	1.26 *	1.39 *	1.48 *	1.51 *	1.47 *	1.24 *	1.43 *	1.13 *	0.44 *
7	1.32 *	1.26 *	1.40 *	1.49 *	1.52 *	1.48 *	1.25 *	1.44 *	1.14 *	0.44 *
5	1.32 *	1.27 *	1.40 *	1.49 *	1.52 *	1.48 *	1.25 *	1.44 *	1.15 *	0.44 *
3	1.32 *	1.27 *	1.40 *	1.49 *	1.53 *	1.49 *	1.26 *	1.45 *	1.15 *	0.45 *
1	0.66 *	0.63 *	0.70 *	0.75 *	0.76 *	0.74 *	0.63 *	0.72 *	0.58 *	0.22 *
0	0.66 *	0.63 *	0.70 *	0.75 *	0.76 *	0.74 *	0.63 *	0.72 *	0.58 *	0.22 *
-1	1.32 *	1.26 *	1.40 *	1.49 *	1.52 *	1.48 *	1.25 *	1.44 *	1.15 *	0.44 *
-3	1.31 *	1.26 *	1.39 *	1.48 *	1.51 *	1.47 *	1.25 *	1.44 *	1.14 *	0.44 *
-5	1.31 *	1.25 *	1.38 *	1.47 *	1.50 *	1.47 *	1.24 *	1.43 *	1.14 *	0.44 *
-7	1.30 *	1.24 *	1.37 *	1.46 *	1.49 *	1.45 *	1.23 *	1.42 *	1.13 *	0.44 *
-9	1.29 *	1.23 *	1.36 *	1.45 *	1.48 *	1.44 *	1.22 *	1.41 *	1.12 *	0.43 *
-11	1.28 *	1.22 *	1.35 *	1.43 *	1.46 *	1.43 *	1.21 *	1.39 *	1.11 *	0.43 *
-13	1.26 *	1.21 *	1.33 *	1.42 *	1.45 *	1.41 *	1.20 *	1.37 *	1.09 *	0.42 *
-15	1.25 *	1.19 *	1.32 *	1.40 *	1.43 *	1.39 *	1.18 *	1.36 *	1.07 *	0.41 *
-17	1.54 *	1.47 *	1.62 *	1.72 *	1.76 *	1.71 *	1.45 *	1.67 *	1.32 *	0.51 *
-19.5	1.81 *	1.73 *	1.91 *	2.03 *	2.07 *	2.01 *	1.70 *	1.95 *	1.54 *	0.59 *
-22.5	1.76 *	1.68 *	1.86 *	1.97 *	2.01 *	1.96 *	1.65 *	1.89 *	1.49 *	0.56 *

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LUMENS TABULATION - (Cont.)

-25.5	1.99 *	1.90 *	2.10 *	2.23 *	2.27 *	2.21 *	1.86 *	2.13 *	1.67 *	0.62 *
-29	2.18 *	2.08 *	2.30 *	2.43 *	2.48 *	2.41 *	2.03 *	2.31 *	1.80 *	0.66 *
-33	2.33 *	2.22 *	2.44 *	2.58 *	2.62 *	2.54 *	2.14 *	2.43 *	1.88 *	0.68 *
-37.5	2.40 *	2.28 *	2.51 *	2.65 *	2.69 *	2.60 *	2.18 *	2.46 *	1.89 *	0.66 *
-42.5	2.16 *	2.06 *	2.27 *	2.40 *	2.43 *	2.34 *	1.95 *	2.19 *	1.66 *	0.56 *
-47.5	2.76 *	2.64 *	2.90 *	3.06 *	3.09 *	2.96 *	2.45 *	2.71 *	2.01 *	0.63 *
-55	2.69 *	2.56 *	2.81 *	2.94 *	2.95 *	2.79 *	2.28 *	2.47 *	1.73 *	0.48
-65	1.39 *	1.31 *	1.43 *	1.50 *	1.48 *	1.38 *	1.10 *	1.13 *	0.69	0.16
-75	0.36	0.34	0.37	0.39	0.38	0.35	0.27	0.25	0.13	0.03
-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	70.13	66.99	73.77	78.02	79.07	76.31	63.73	71.77	54.98	19.71

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90	0.00	0.00	0.12	
85	0.01	0.00	4.08	
75	0.02	0.00	21.80	
65	0.04	0.00	46.93	
55	0.06	0.00	48.70	
47.5	0.07	0.00	38.02	
42.5	0.09	0.00	41.87	
37.5	0.10	0.00	40.58	
33	0.10	0.00	38.09	
29	0.09	0.00	34.70	
25.5	0.08	0.00	30.62	
22.5	0.09	0.00	31.33	
19.5	0.08	0.00	26.58	
17	0.06	0.00	21.53	
15	0.06	0.00	21.73	

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LUMENS TABULATION - (Cont.)

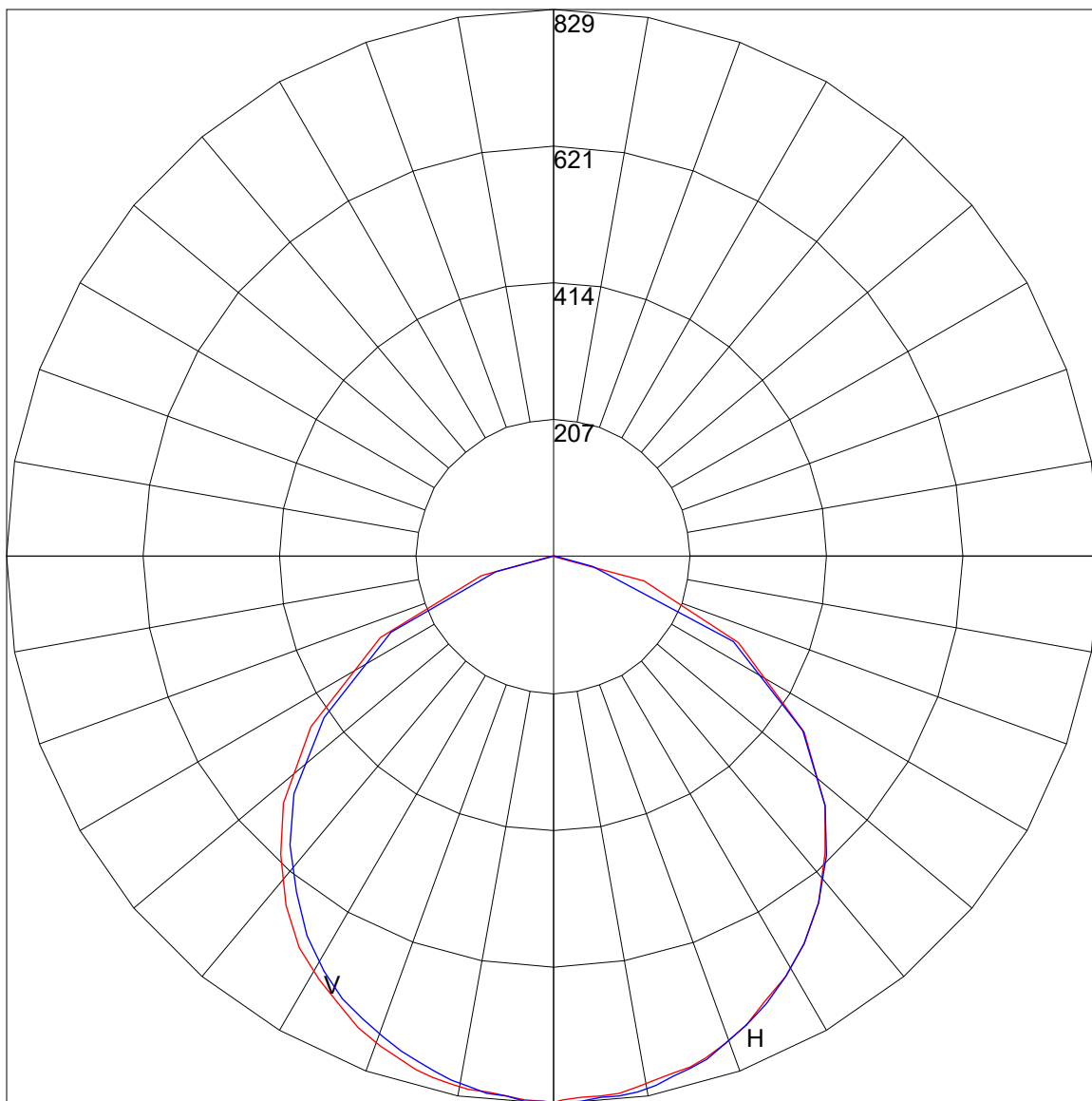
13			
	0.07	0.00	21.91
11			
	0.07	0.00	22.05
9			
	0.07	0.00	22.16
7			
	0.07	0.00	22.24
5			
	0.07	0.00	22.30
3			
	0.07	0.00	22.33
1			
	0.03	0.00	11.16
0			
	0.03	0.00	11.15
-1			
	0.07	0.00	22.26
-3			
	0.07	0.00	22.16
-5			
	0.07	0.00	22.04
-7			
	0.07	0.00	21.89
-9			
	0.07	0.00	21.72
-11			
	0.07	0.00	21.52
-13			
	0.06	0.00	21.29
-15			
	0.06	0.00	21.03
-17			
	0.08	0.00	25.90
-19.5			
	0.09	0.00	30.45
-22.5			
	0.08	0.00	29.68
-25.5			
	0.09	0.00	33.52
-29			
	0.10	0.00	36.65
-33			
	0.09	0.00	38.84
-37.5			
	0.09	0.00	39.85
-42.5			
	0.07	0.00	35.93
-47.5			
	0.07	0.00	45.52
-55			
	0.04	0.00	43.47
-65			
	0.01	0.00	21.88
-75			
	0.01	0.00	5.60

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LUMENS TABULATION - (Cont.)

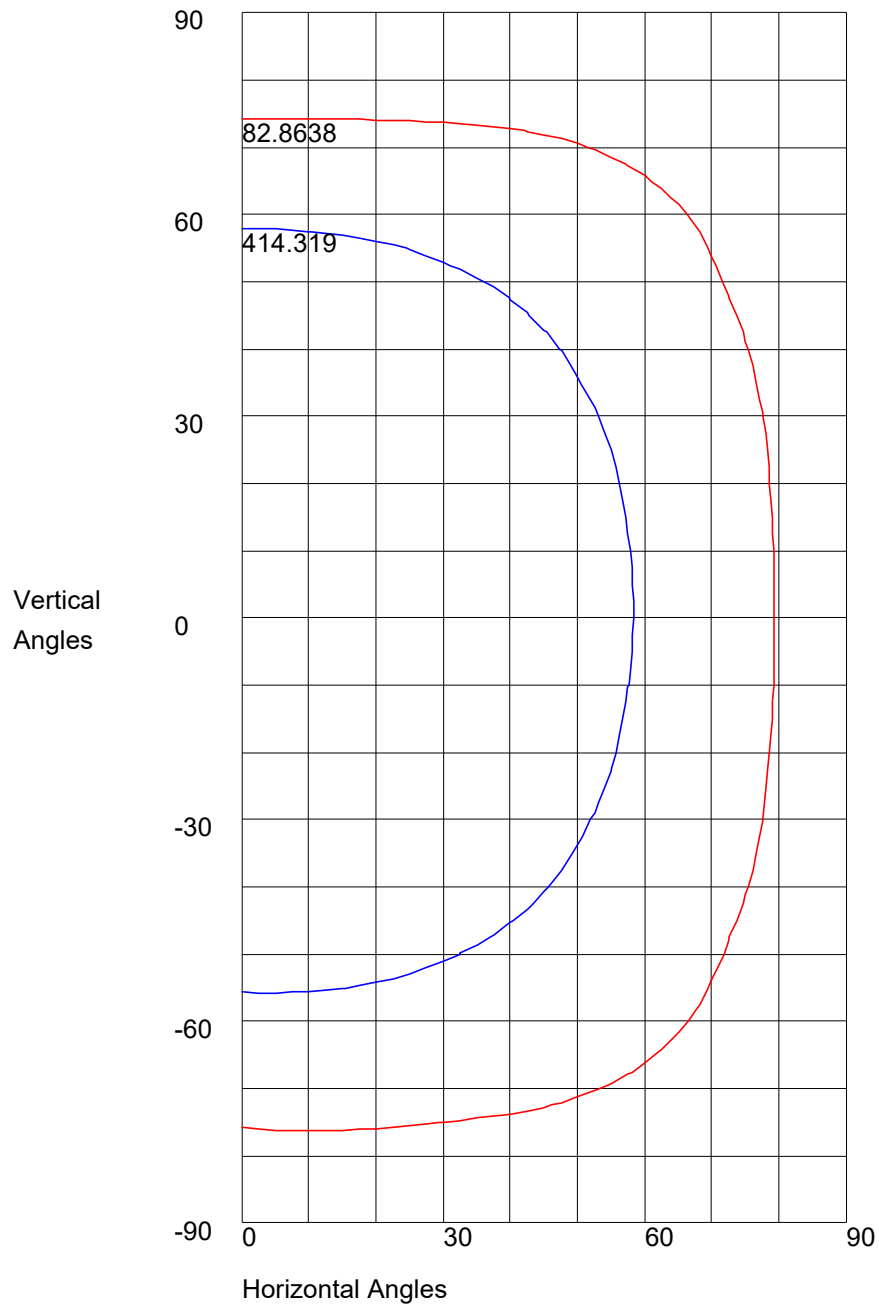
-85	0.00	0.00	0.17
-90			
Total	2.79	0.01	1163.33

AXIAL CANDELA DISPLAY



Maximum Candela = 828.638 Located At Horizontal Angle = 3, Vertical Angle = 3
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 828.638 Located At Horizontal Angle = 3, Vertical Angle = 3
50% Maximum Candela = 414.319
10% Maximum Candela = 82.8638