



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] BLC2005004E-B
[ISSUE DATE] 2020-5-10 14:31
[MANUFAC] LumenFocus, LLC.
[LUMCAT] FLK LW 77 UV 8SEL [4000K]
[LUMINAIRE]
[LAMPCAT]
[LAMP]
[VOLTAGE] 120.0 V
[CURRENT] 0.2822 A
[POWERFACTOR] 0.99
[THD] 11.53
[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	1767.723
Maximum Candela Angle	1H 1V
Horizontal Beam Angle (50%)	114.9
Vertical Beam Angle (50%)	112.8
Horizontal Field Angle (10%)	153.6
Vertical Field Angle (10%)	146.9
Lumens Per Lamp	4859.11 (1 lamp)
Total Lamp Lumens	4859.11
Beam Lumens	3782
Beam Efficiency	78 %
Field Lumens	4796
Field Efficiency	99 %
Spill Lumens	66
Luminaire Lumens	4862
Total Efficiency	100 %
Total Luminaire Watts	33.5
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.022	90	.029
85	7.905	85	3.848
75	297.417	75	80.068
65	653.269	65	552.153
55	980.268	55	962.693
47.5	1187.489	47.5	1174.639
42.5	1305.447	42.5	1298.104
37.5	1405.565	37.5	1406.64
33	1489.509	33	1491.383
29	1554.185	29	1558.882
25.5	1605.256	25.5	1610.775
22.5	1645.18	22.5	1644.767
19.5	1673.483	19.5	1676.449
17	1692.822	17	1702.679
15	1717.354	15	1720.926
13	1728.743	13	1732.988
11	1737.553	11	1741.235
9	1742.999	9	1749.604
7	1751.357	7	1754.334
5	1759.427	5	1759.405
3	1759.273	3	1766.274
1	1758.689	1	1764.169
0	1761.633	0	1761.633
-1	1763.937	-1	1759.053
-3	1766.638	-3	1761.721
-5	1764.058	-5	1756.836
-7	1761.225	-7	1743.782
-9	1758.314	-9	1733.186
-11	1748.898	-11	1721.676
-13	1743.198	-13	1711.764
-15	1734.146	-15	1695.093
-17	1719.691	-17	1678.543
-19.5	1688.351	-19.5	1654.822
-22.5	1659.651	-22.5	1623.156
-25.5	1625.405	-25.5	1584.451
-29	1580.04	-29	1539.675
-33	1513.357	-33	1469.916
-37.5	1421.519	-37.5	1378.701
-42.5	1309.709	-42.5	1262.292
-47.5	1183.597	-47.5	1136.054
-55	948.271	-55	919.56
-65	610.909	-65	504.302
-75	153.014	-75	136.332
-85	3.815	-85	9.559
-90	.01	-90	.031

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 2431.08

Total Field Lumens (one side of beam only) = 2398.12

* 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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
75	0.13	0.26	0.27	0.28	0.27	0.27	0.27	0.26	0.26	0.30
65	0.96 *	1.94 *	1.94 *	1.93 *	1.90 *	1.87 *	1.84 *	1.79 *	1.74 *	2.10 *
55	2.31 *	4.62 *	4.60 *	4.55 *	4.50 *	4.44 *	4.36 *	4.26 *	4.16 *	5.05 *
47.5	2.44 *	4.88 *	4.85 *	4.82 *	4.77 *	4.71 *	4.64 *	4.56 *	4.46 *	5.42 *
42.5	1.88 *	3.76 *	3.74 *	3.72 *	3.69 *	3.64 *	3.59 *	3.53 *	3.46 *	4.21 *
37.5	2.06 *	4.11 *	4.10 *	4.07 *	4.04 *	3.99 *	3.93 *	3.87 *	3.79 *	4.62 *
33	1.99 *	3.97 *	3.95 *	3.93 *	3.89 *	3.85 *	3.79 *	3.73 *	3.66 *	4.47 *
29	1.86 *	3.71 *	3.70 *	3.67 *	3.64 *	3.60 *	3.55 *	3.49 *	3.43 *	4.19 *
25.5	1.69 *	3.37 *	3.36 *	3.34 *	3.31 *	3.27 *	3.23 *	3.18 *	3.12 *	3.81 *
22.5	1.49 *	2.97 *	2.96 *	2.94 *	2.91 *	2.88 *	2.84 *	2.80 *	2.75 *	3.36 *
19.5	1.52 *	3.03 *	3.02 *	3.00 *	2.97 *	2.94 *	2.90 *	2.86 *	2.81 *	3.43 *
17	1.29 *	2.57 *	2.56 *	2.54 *	2.52 *	2.50 *	2.46 *	2.43 *	2.38 *	2.91 *
15	1.04 *	2.08 *	2.07 *	2.06 *	2.04 *	2.02 *	2.00 *	1.97 *	1.93 *	2.36 *
13	1.05 *	2.10 *	2.09 *	2.07 *	2.06 *	2.04 *	2.01 *	1.98 *	1.95 *	2.38 *
11	1.06 *	2.11 *	2.10 *	2.09 *	2.07 *	2.05 *	2.03 *	2.00 *	1.96 *	2.39 *
9	1.06 *	2.12 *	2.11 *	2.10 *	2.09 *	2.07 *	2.04 *	2.01 *	1.97 *	2.41 *
7	1.07 *	2.13 *	2.12 *	2.11 *	2.10 *	2.08 *	2.05 *	2.02 *	1.98 *	2.42 *
5	1.07 *	2.14 *	2.13 *	2.12 *	2.10 *	2.08 *	2.05 *	2.02 *	1.99 *	2.43 *
3	1.07 *	2.14 *	2.14 *	2.12 *	2.11 *	2.09 *	2.06 *	2.03 *	2.00 *	2.44 *
1	1.07 *	2.15 *	2.14 *	2.13 *	2.11 *	2.09 *	2.07 *	2.04 *	2.00 *	2.45 *
0	0.54 *	1.07 *	1.07 *	1.07 *	1.06 *	1.05 *	1.04 *	1.02 *	1.00 *	1.22 *
-1	0.54 *	1.07 *	1.07 *	1.06 *	1.06 *	1.05 *	1.04 *	1.02 *	1.00 *	1.22 *
-3	1.07 *	2.14 *	2.13 *	2.12 *	2.11 *	2.09 *	2.06 *	2.03 *	2.00 *	2.44 *
	1.07 *	2.13 *	2.12 *	2.11 *	2.09 *	2.07 *	2.05 *	2.02 *	1.99 *	2.42 *

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LUMENS TABULATION - (Cont.)

-5	1.06 *	2.12 *	2.11 *	2.10 *	2.08 *	2.06 *	2.03 *	2.00 *	1.97 *	2.41 *
-7	1.06 *	2.11 *	2.10 *	2.09 *	2.07 *	2.05 *	2.02 *	1.99 *	1.96 *	2.39 *
-9	1.05 *	2.10 *	2.09 *	2.07 *	2.05 *	2.03 *	2.00 *	1.97 *	1.94 *	2.37 *
-11	1.05 *	2.08 *	2.07 *	2.06 *	2.04 *	2.01 *	1.99 *	1.96 *	1.92 *	2.35 *
-13	1.04 *	2.07 *	2.06 *	2.04 *	2.02 *	2.00 *	1.97 *	1.94 *	1.90 *	2.33 *
-15	1.03 *	2.05 *	2.04 *	2.02 *	2.00 *	1.98 *	1.95 *	1.92 *	1.88 *	2.30 *
-17	1.27 *	2.53 *	2.52 *	2.50 *	2.47 *	2.44 *	2.41 *	2.37 *	2.32 *	2.83 *
-19.5	1.50 *	2.99 *	2.97 *	2.95 *	2.92 *	2.88 *	2.84 *	2.79 *	2.73 *	3.33 *
-22.5	1.46 *	2.92 *	2.90 *	2.88 *	2.85 *	2.82 *	2.77 *	2.72 *	2.67 *	3.25 *
-25.5	1.66 *	3.32 *	3.30 *	3.27 *	3.23 *	3.19 *	3.14 *	3.08 *	3.02 *	3.68 *
-29	1.83 *	3.65 *	3.63 *	3.60 *	3.56 *	3.51 *	3.45 *	3.39 *	3.32 *	4.04 *
-33	1.95 *	3.89 *	3.87 *	3.83 *	3.79 *	3.74 *	3.67 *	3.60 *	3.53 *	4.30 *
-37.5	2.01 *	4.01 *	3.98 *	3.95 *	3.91 *	3.85 *	3.79 *	3.72 *	3.64 *	4.43 *
-42.5	1.83 *	3.64 *	3.62 *	3.59 *	3.55 *	3.51 *	3.45 *	3.38 *	3.31 *	4.02 *
-47.5	2.35 *	4.68 *	4.66 *	4.62 *	4.57 *	4.50 *	4.43 *	4.34 *	4.24 *	5.16 *
-55	2.17 *	4.34 *	4.31 *	4.28 *	4.23 *	4.17 *	4.10 *	4.02 *	3.93 *	4.76 *
-65	0.98 *	1.96 *	1.96 *	1.94 *	1.92 *	1.89 *	1.86 *	1.82 *	1.78 *	2.14 *
-75	0.22	0.45	0.45	0.45	0.44	0.43	0.43	0.41	0.40	0.48
-85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
-90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
Total	56.85	113.50	112.99	112.20	111.14	109.81	108.23	106.39	104.29	127.02

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	0.34	0.32	0.36	0.38	0.38	0.34	0.25	0.22	0.14	0.05
75	2.41 *	2.28 *	2.46 *	2.54 *	2.52 *	2.33 *	1.82 *	1.76	0.95	0.19
65	5.82 *	5.51 *	5.99 *	6.21 *	6.17 *	5.80 *	4.68 *	4.89 *	3.05 *	0.70
55	6.25 *	5.95 *	6.52 *	6.83 *	6.82 *	6.48 *	5.32 *	5.81 *	4.06 *	1.09
47.5	4.86 *	4.64 *	5.10 *	5.37 *	5.40 *	5.17 *	4.27 *	4.74 *	3.49 *	1.04 *

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LUMENS TABULATION - (Cont.)

42.5	5.35 *	5.11 *	5.62 *	5.94 *	6.00 *	5.76 *	4.78 *	5.34 *	4.03 *	1.27 *
37.5	5.18 *	4.95 *	5.46 *	5.77 *	5.84 *	5.63 *	4.69 *	5.27 *	4.01 *	1.31 *
33	4.85 *	4.65 *	5.13 *	5.42 *	5.50 *	5.31 *	4.44 *	5.01 *	3.84 *	1.29 *
29	4.42 *	4.23 *	4.67 *	4.94 *	5.02 *	4.86 *	4.07 *	4.61 *	3.56 *	1.23 *
25.5	3.89 *	3.73 *	4.12 *	4.36 *	4.43 *	4.30 *	3.61 *	4.09 *	3.18 *	1.12 *
22.5	3.98 *	3.81 *	4.21 *	4.47 *	4.54 *	4.41 *	3.71 *	4.21 *	3.29 *	1.17 *
19.5	3.37 *	3.23 *	3.57 *	3.79 *	3.86 *	3.74 *	3.15 *	3.59 *	2.81 *	1.01 *
17	2.73 *	2.62 *	2.89 *	3.07 *	3.12 *	3.04 *	2.56 *	2.92 *	2.29 *	0.83 *
15	2.76 *	2.64 *	2.92 *	3.10 *	3.16 *	3.07 *	2.59 *	2.95 *	2.32 *	0.84 *
13	2.78 *	2.66 *	2.94 *	3.13 *	3.19 *	3.10 *	2.61 *	2.98 *	2.35 *	0.85 *
11	2.79 *	2.68 *	2.96 *	3.15 *	3.21 *	3.12 *	2.63 *	3.01 *	2.37 *	0.87 *
9	2.81 *	2.69 *	2.98 *	3.17 *	3.23 *	3.14 *	2.65 *	3.03 *	2.39 *	0.87 *
7	2.82 *	2.71 *	2.99 *	3.18 *	3.24 *	3.16 *	2.66 *	3.05 *	2.41 *	0.88 *
5	2.83 *	2.72 *	3.01 *	3.19 *	3.25 *	3.16 *	2.67 *	3.06 *	2.42 *	0.89 *
3	2.84 *	2.72 *	3.01 *	3.20 *	3.26 *	3.17 *	2.68 *	3.07 *	2.43 *	0.89 *
1	1.42 *	1.36 *	1.51 *	1.60 *	1.63 *	1.59 *	1.34 *	1.54 *	1.21 *	0.45 *
0	1.42 *	1.36 *	1.51 *	1.60 *	1.63 *	1.59 *	1.34 *	1.54 *	1.21 *	0.45 *
-1	2.83 *	2.72 *	3.00 *	3.19 *	3.25 *	3.16 *	2.67 *	3.06 *	2.42 *	0.89 *
-3	2.82 *	2.70 *	2.99 *	3.17 *	3.23 *	3.15 *	2.66 *	3.05 *	2.41 *	0.89 *
-5	2.80 *	2.68 *	2.97 *	3.15 *	3.21 *	3.13 *	2.65 *	3.03 *	2.40 *	0.88 *
-7	2.77 *	2.66 *	2.95 *	3.13 *	3.19 *	3.10 *	2.62 *	3.01 *	2.38 *	0.87 *
-9	2.75 *	2.64 *	2.92 *	3.10 *	3.16 *	3.08 *	2.60 *	2.98 *	2.36 *	0.87 *
-11	2.73 *	2.61 *	2.89 *	3.07 *	3.13 *	3.05 *	2.57 *	2.95 *	2.33 *	0.85 *
-13	2.70 *	2.59 *	2.86 *	3.03 *	3.09 *	3.01 *	2.54 *	2.91 *	2.30 *	0.84 *
-15	2.67 *	2.55 *	2.82 *	3.00 *	3.05 *	2.97 *	2.51 *	2.88 *	2.27 *	0.83 *
-17	3.28 *	3.14 *	3.47 *	3.69 *	3.75 *	3.65 *	3.09 *	3.53 *	2.78 *	1.01 *
-19.5	3.86 *	3.69 *	4.08 *	4.33 *	4.41 *	4.28 *	3.62 *	4.14 *	3.25 *	1.17 *
-22.5	3.76 *	3.60 *	3.98 *	4.22 *	4.29 *	4.17 *	3.51 *	4.01 *	3.14 *	1.12 *

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LUMENS TABULATION - (Cont.)

-25.5	4.26 *	4.07 *	4.49 *	4.76 *	4.84 *	4.70 *	3.96 *	4.51 *	3.51 *	1.23 *
-29	4.68 *	4.47 *	4.92 *	5.20 *	5.29 *	5.13 *	4.31 *	4.89 *	3.79 *	1.30 *
-33	4.97 *	4.75 *	5.22 *	5.51 *	5.60 *	5.42 *	4.54 *	5.14 *	3.96 *	1.31 *
-37.5	5.12 *	4.89 *	5.37 *	5.66 *	5.73 *	5.53 *	4.62 *	5.22 *	3.98 *	1.28 *
-42.5	4.65 *	4.43 *	4.86 *	5.11 *	5.16 *	4.97 *	4.14 *	4.63 *	3.46 *	1.06 *
-47.5	5.95 *	5.66 *	6.18 *	6.47 *	6.52 *	6.27 *	5.16 *	5.65 *	4.05 *	1.14 *
-55	5.47 *	5.19 *	5.67 *	5.91 *	5.92 *	5.64 *	4.54 *	4.81 *	3.16 *	0.78
-65	2.44 *	2.31 *	2.54 *	2.65 *	2.61 *	2.41 *	1.90 *	1.90	1.09	0.23
-75	0.55	0.52	0.57	0.59	0.57	0.50	0.37	0.33	0.18	0.06
-85	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
-90	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01
Total	147.01	140.49	154.70	163.41	165.41	159.61	133.14	149.35	113.08	37.90

Vert. Angles	Horizontal Angles			
	<u>75</u>	<u>85</u>	<u>90</u>	<u>Total</u>
90	0.00	0.00	0.15	
85	0.01	0.00	5.38	
75	0.02	0.00	37.32	
65	0.05	0.00	91.73	
55	0.08	0.00	100.76	
47.5	0.09	0.00	79.39	
42.5	0.12	0.00	87.88	
37.5	0.14	0.00	85.47	
33	0.15	0.00	80.44	
29	0.15	0.00	73.41	
25.5	0.14	0.00	64.87	
22.5	0.15	0.00	66.43	
19.5	0.13	0.00	56.42	
17	0.11	0.00	45.73	
15	0.11	0.00	46.19	

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LUMENS TABULATION - (Cont.)

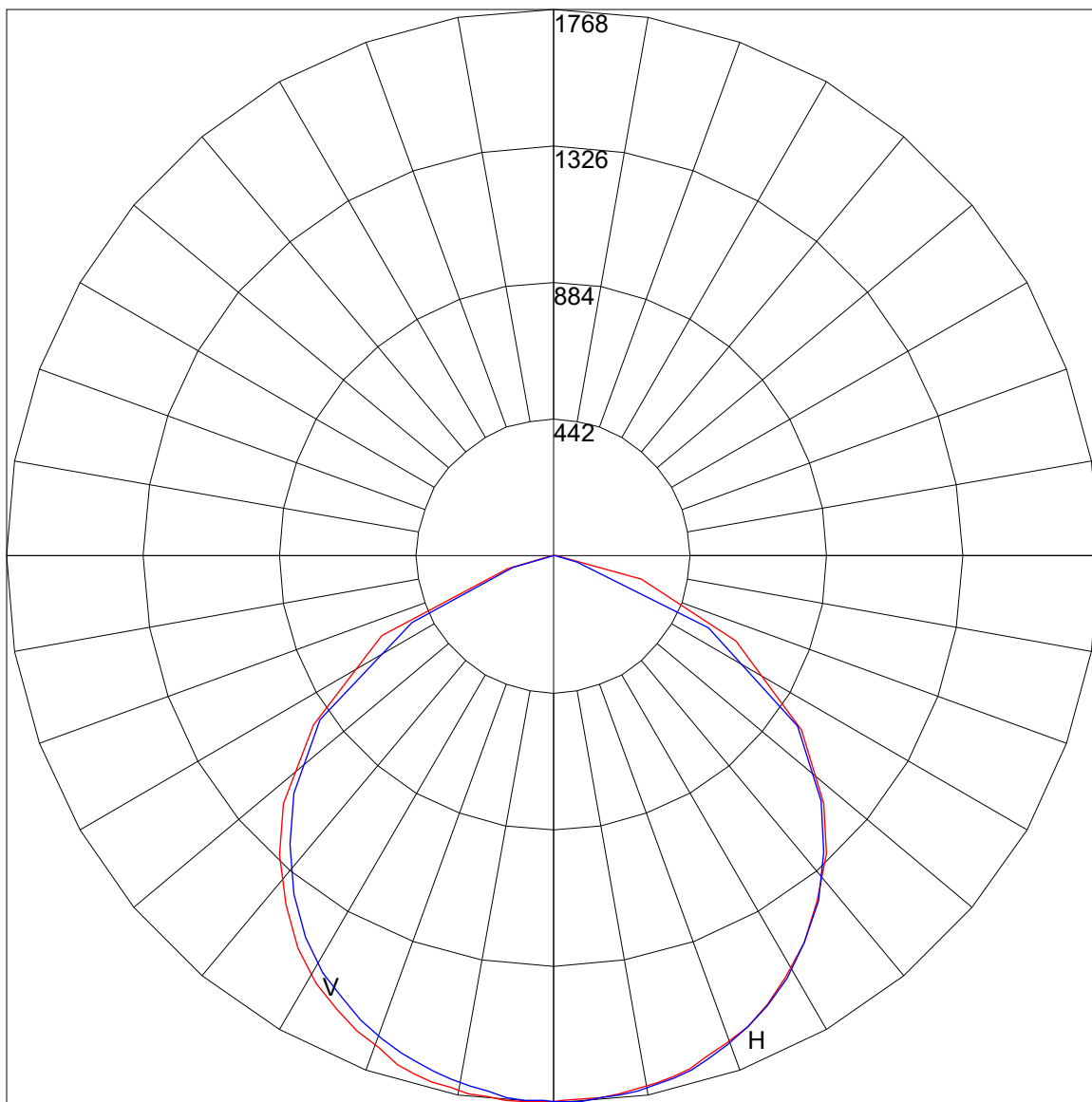
13	0.12	0.00	46.58
11	0.12	0.00	46.90
9	0.12	0.00	47.16
7	0.12	0.00	47.37
5	0.12	0.00	47.54
3	0.12	0.00	47.65
1	0.06	0.00	23.85
0	0.06	0.00	23.83
-1	0.12	0.00	47.51
-3	0.12	0.00	47.27
-5	0.12	0.00	46.98
-7	0.12	0.00	46.64
-9	0.12	0.00	46.25
-11	0.12	0.00	45.82
-13	0.11	0.00	45.34
-15	0.11	0.00	44.81
-17	0.13	0.00	55.19
-19.5	0.15	0.00	64.87
-22.5	0.14	0.00	63.20
-25.5	0.15	0.00	71.39
-29	0.16	0.00	78.09
-33	0.15	0.00	82.73
-37.5	0.13	0.00	84.81
-42.5	0.10	0.00	76.48
-47.5	0.09	0.00	96.70
-55	0.06	0.00	87.45
-65	0.03	0.00	38.37
-75	0.01	0.00	8.41

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LUMENS TABULATION - (Cont.)

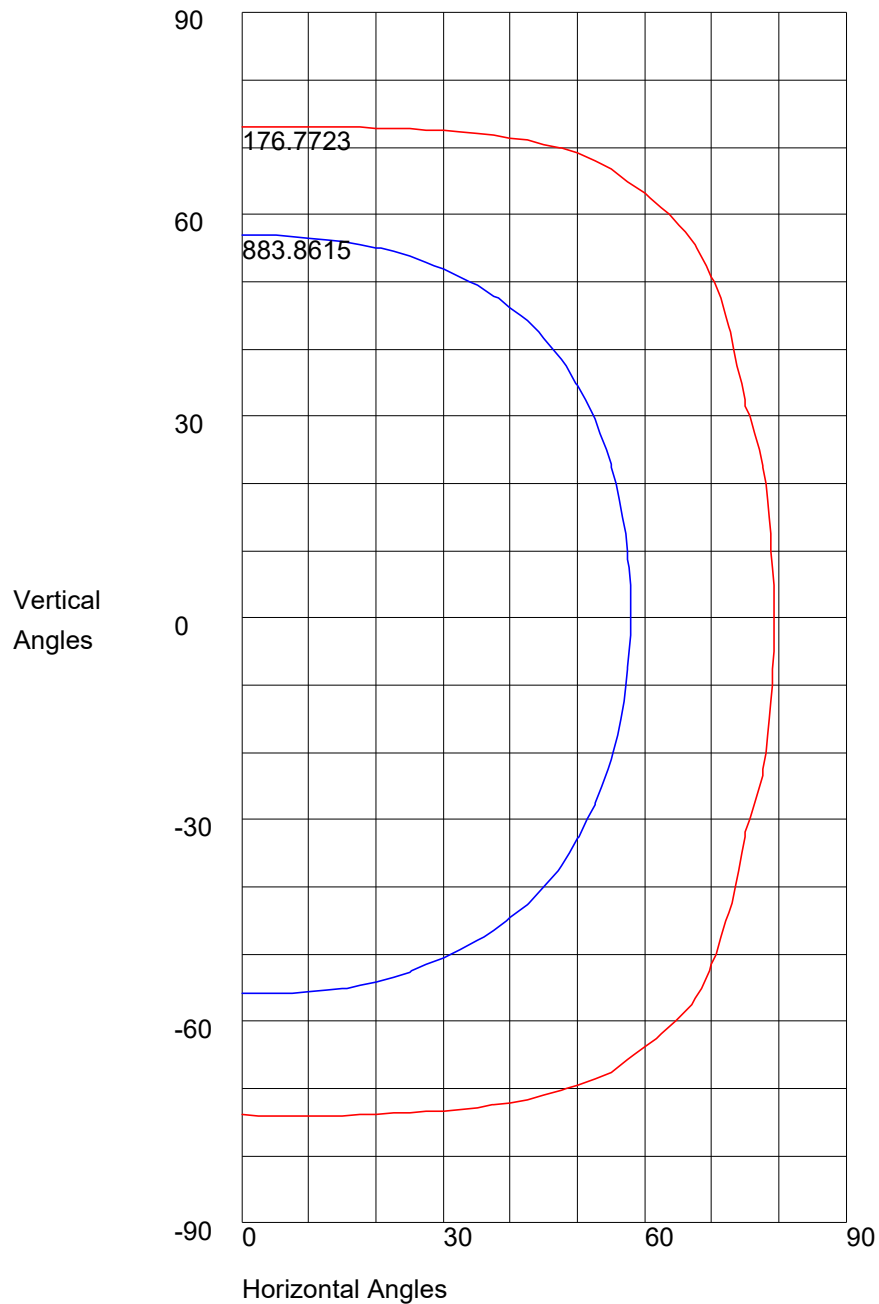
-85	0.00	0.00	0.31
-90			
Total	4.56	0.02	2431.08

AXIAL CANDELA DISPLAY



Maximum Candela = 1767.723 Located At Horizontal Angle = 1, Vertical Angle = 1
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 1767.723 Located At Horizontal Angle = 1, Vertical Angle = 1
50% Maximum Candela = 883.8615
10% Maximum Candela = 176.7723