



IES FLOOD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] BLC2005004E-C
[ISSUE DATE] 2020-5-10 15:20
[MANUFAC] LumenFocus, LLC.
[LUMCAT] FLK MD 77 UV 8SEL [4000K]
[LUMINAIRE]
[LAMPCAT]
[LAMP]
[VOLTAGE] 120.0 V
[CURRENT] 0.5124 A
[POWERFACTOR] 0.985
[THD] 15.94
[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	3087.347
Maximum Candela Angle	3H 0V
Horizontal Beam Angle (50%)	113.5
Vertical Beam Angle (50%)	112.4
Horizontal Field Angle (10%)	152.9
Vertical Field Angle (10%)	147.2
Lumens Per Lamp	8423.057 (1 lamp)
Total Lamp Lumens	8423.057
Beam Lumens	6548
Beam Efficiency	78 %
Field Lumens	8310
Field Efficiency	99 %
Spill Lumens	118
Luminaire Lumens	8428
Total Efficiency	100 %
Total Luminaire Watts	60.6
Ballast Factor	1.00

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AXIAL CANDELA

DEG.	HOR.	DEG.	VERT.
90	.038	90	.036
85	16.679	85	5.205
75	414.054	75	54.61
65	1075.796	65	795.736
55	1649.792	55	1621.939
47.5	2013.888	47.5	2008.123
42.5	2216.889	42.5	2242.112
37.5	2406.845	37.5	2440.949
33	2554.925	33	2592.17
29	2681.422	29	2696.351
25.5	2774.473	25.5	2787.391
22.5	2830.212	22.5	2856.499
19.5	2893.588	19.5	2910.178
17	2946.586	17	2953.098
15	2974.694	15	2985.348
13	2991.051	13	3008.948
11	3008.827	11	3019.215
9	3042.173	9	3038.396
7	3065.961	7	3054.322
5	3086.483	5	3068.387
3	3087.347	3	3075.386
1	3082.02	1	3071.41
0	3076.538	0	3076.538
-1	3070.436	-1	3074.445
-3	3060.878	-3	3074.367
-5	3069.572	-5	3065.74
-7	3065.109	-7	3060.38
-9	3055.319	-9	3044.609
-11	3044.044	-11	3021.153
-13	3021.419	-13	3007.099
-15	2991.439	-15	2971.128
-17	2952.688	-17	2935.932
-19.5	2908.66	-19.5	2893.754
-22.5	2855.103	-22.5	2834.941
-25.5	2800.344	-25.5	2762.844
-29	2703.04	-29	2663.481
-33	2587.175	-33	2545.401
-37.5	2439.333	-37.5	2405.992
-42.5	2251.841	-42.5	2211.313
-47.5	2030.212	-47.5	1999.69
-55	1652.45	-55	1625.671
-65	998.372	-65	1030.832
-75	315.256	-75	317.039
-85	7.985	-85	20.267
-90	.019	-90	.048

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LUMEN TABULATION

Average Of Right And Left Sides

Total Luminaire Lumens (one side of beam only) = 4213.86

Total Field Lumens (one side of beam only) = 4154.84

* 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	0.09	0.19	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.22
65	1.30 *	2.62 *	2.64 *	2.64 *	2.63 *	2.62 *	2.59 *	2.55 *	2.48 *	2.97 *
55	3.69 *	7.39 *	7.38 *	7.34 *	7.28 *	7.20 *	7.10 *	6.97 *	6.81 *	8.24 *
47.5	4.15 *	8.29 *	8.26 *	8.20 *	8.12 *	8.02 *	7.90 *	7.76 *	7.59 *	9.23 *
42.5	3.24 *	6.46 *	6.44 *	6.40 *	6.34 *	6.26 *	6.17 *	6.06 *	5.94 *	7.23 *
37.5	3.57 *	7.12 *	7.09 *	7.05 *	6.98 *	6.89 *	6.79 *	6.68 *	6.54 *	7.97 *
33	3.45 *	6.89 *	6.86 *	6.82 *	6.76 *	6.68 *	6.58 *	6.47 *	6.34 *	7.73 *
29	3.22 *	6.44 *	6.41 *	6.38 *	6.32 *	6.25 *	6.17 *	6.07 *	5.95 *	7.26 *
25.5	2.92 *	5.84 *	5.82 *	5.79 *	5.74 *	5.68 *	5.61 *	5.52 *	5.42 *	6.61 *
22.5	2.58 *	5.15 *	5.13 *	5.11 *	5.06 *	5.01 *	4.94 *	4.87 *	4.78 *	5.83 *
19.5	2.63 *	5.27 *	5.25 *	5.22 *	5.18 *	5.12 *	5.06 *	4.98 *	4.89 *	5.96 *
17	2.23 *	4.46 *	4.45 *	4.42 *	4.39 *	4.34 *	4.29 *	4.22 *	4.15 *	5.06 *
15	1.81 *	3.61 *	3.60 *	3.58 *	3.55 *	3.52 *	3.47 *	3.42 *	3.36 *	4.10 *
13	1.83 *	3.65 *	3.63 *	3.61 *	3.59 *	3.55 *	3.50 *	3.45 *	3.39 *	4.13 *
11	1.84 *	3.67 *	3.66 *	3.64 *	3.61 *	3.58 *	3.53 *	3.48 *	3.41 *	4.16 *
9	1.85 *	3.69 *	3.68 *	3.66 *	3.64 *	3.60 *	3.56 *	3.50 *	3.43 *	4.19 *
7	1.86 *	3.71 *	3.70 *	3.68 *	3.66 *	3.62 *	3.57 *	3.52 *	3.45 *	4.21 *
5	1.86 *	3.73 *	3.72 *	3.70 *	3.67 *	3.63 *	3.59 *	3.53 *	3.46 *	4.22 *
3	1.87 *	3.74 *	3.73 *	3.71 *	3.68 *	3.64 *	3.59 *	3.54 *	3.47 *	4.23 *
1	1.87 *	3.74 *	3.73 *	3.72 *	3.69 *	3.65 *	3.60 *	3.54 *	3.47 *	4.23 *
0	0.94 *	1.87 *	1.87 *	1.86 *	1.84 *	1.82 *	1.80 *	1.77 *	1.74 *	2.12 *
-1	0.94 *	1.87 *	1.87 *	1.86 *	1.84 *	1.82 *	1.80 *	1.77 *	1.74 *	2.11 *
-3	1.87 *	3.73 *	3.72 *	3.70 *	3.67 *	3.63 *	3.58 *	3.53 *	3.46 *	4.22 *
	1.87 *	3.73 *	3.71 *	3.68 *	3.65 *	3.61 *	3.57 *	3.51 *	3.45 *	4.20 *

IES FLOOD REPORT
PHOTOMETRIC FILENAME : FLK MD 77 UV 8SEL [4000K].IES

LUMENS TABULATION - (Cont.)

-5	1.86 *	3.72 *	3.69 *	3.67 *	3.64 *	3.60 *	3.55 *	3.49 *	3.43 *	4.18 *
-7	1.86 *	3.70 *	3.68 *	3.65 *	3.62 *	3.58 *	3.53 *	3.47 *	3.41 *	4.16 *
-9	1.85 *	3.68 *	3.66 *	3.63 *	3.60 *	3.56 *	3.51 *	3.45 *	3.39 *	4.13 *
-11	1.83 *	3.66 *	3.63 *	3.61 *	3.57 *	3.53 *	3.48 *	3.42 *	3.36 *	4.10 *
-13	1.82 *	3.63 *	3.60 *	3.57 *	3.54 *	3.50 *	3.45 *	3.39 *	3.33 *	4.06 *
-15	1.80 *	3.59 *	3.57 *	3.54 *	3.51 *	3.47 *	3.42 *	3.36 *	3.29 *	4.01 *
-17	2.22 *	4.43 *	4.40 *	4.37 *	4.33 *	4.28 *	4.22 *	4.14 *	4.06 *	4.95 *
-19.5	2.62 *	5.22 *	5.19 *	5.15 *	5.10 *	5.04 *	4.97 *	4.88 *	4.78 *	5.83 *
-22.5	2.56 *	5.10 *	5.08 *	5.04 *	4.99 *	4.93 *	4.86 *	4.77 *	4.68 *	5.70 *
-25.5	2.89 *	5.77 *	5.75 *	5.71 *	5.66 *	5.59 *	5.51 *	5.41 *	5.31 *	6.46 *
-29	3.17 *	6.34 *	6.31 *	6.27 *	6.22 *	6.15 *	6.06 *	5.95 *	5.83 *	7.10 *
-33	3.39 *	6.78 *	6.75 *	6.71 *	6.65 *	6.56 *	6.46 *	6.35 *	6.22 *	7.57 *
-37.5	3.52 *	7.02 *	6.99 *	6.95 *	6.88 *	6.79 *	6.69 *	6.58 *	6.44 *	7.84 *
-42.5	3.21 *	6.40 *	6.38 *	6.33 *	6.27 *	6.20 *	6.11 *	6.00 *	5.87 *	7.14 *
-47.5	4.14 *	8.27 *	8.23 *	8.17 *	8.09 *	7.98 *	7.86 *	7.71 *	7.55 *	9.17 *
-55	4.05 *	8.09 *	8.05 *	7.99 *	7.91 *	7.81 *	7.68 *	7.54 *	7.36 *	8.94 *
-65	2.05 *	4.12 *	4.11 *	4.08 *	4.04 *	3.98 *	3.92 *	3.84 *	3.74 *	4.53 *
-75	0.51	1.03	1.04	1.03	1.02	1.01	0.99	0.96	0.93	1.12
-85	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
-90										
Total	98.83	197.43	196.71	195.49	193.78	191.55	188.84	185.65	181.95	221.47

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	0.02	0.02	0.01
85	0.25	0.26	0.34	0.39	0.39	0.33	0.25	0.29	0.21	0.08
75	3.36 *	3.19 *	3.51 *	3.69 *	3.65 *	3.35 *	2.55	2.46	1.45	0.36
65	9.45 *	8.94 *	9.70 *	10.06 *	10.04 *	9.51 *	7.51 *	7.53 *	4.76 *	1.21
55	10.65 *	10.13 *	11.06 *	11.55 *	11.59 *	11.08 *	9.02 *	9.58 *	6.47 *	1.78
47.5	8.35 *	7.96 *	8.74 *	9.20 *	9.26 *	8.87 *	7.33 *	8.06 *	5.69 *	1.66 *

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LUMENS TABULATION - (Cont.)

42.5	9.23 *	8.81 *	9.68 *	10.20 *	10.29 *	9.90 *	8.22 *	9.18 *	6.66 *	2.04 *
37.5	8.95 *	8.55 *	9.42 *	9.94 *	10.05 *	9.69 *	8.08 *	9.07 *	6.71 *	2.14 *
33	8.41 *	8.03 *	8.85 *	9.36 *	9.49 *	9.16 *	7.66 *	8.65 *	6.49 *	2.14 *
29	7.66 *	7.32 *	8.07 *	8.54 *	8.67 *	8.39 *	7.03 *	7.95 *	6.03 *	2.03 *
25.5	6.75 *	6.46 *	7.13 *	7.55 *	7.67 *	7.43 *	6.23 *	7.06 *	5.39 *	1.84 *
22.5	6.91 *	6.61 *	7.30 *	7.73 *	7.86 *	7.62 *	6.40 *	7.26 *	5.57 *	1.92 *
19.5	5.86 *	5.61 *	6.19 *	6.56 *	6.68 *	6.47 *	5.43 *	6.18 *	4.76 *	1.66 *
17	4.75 *	4.55 *	5.02 *	5.32 *	5.41 *	5.24 *	4.41 *	5.02 *	3.88 *	1.36 *
15	4.79 *	4.59 *	5.07 *	5.37 *	5.46 *	5.29 *	4.46 *	5.08 *	3.93 *	1.38 *
13	4.83 *	4.63 *	5.11 *	5.41 *	5.50 *	5.34 *	4.49 *	5.13 *	3.98 *	1.41 *
11	4.86 *	4.66 *	5.14 *	5.44 *	5.53 *	5.37 *	4.52 *	5.17 *	4.01 *	1.42 *
9	4.88 *	4.68 *	5.16 *	5.47 *	5.56 *	5.40 *	4.55 *	5.20 *	4.04 *	1.44 *
7	4.90 *	4.69 *	5.18 *	5.48 *	5.58 *	5.42 *	4.56 *	5.22 *	4.07 *	1.45 *
5	4.90 *	4.70 *	5.19 *	5.50 *	5.59 *	5.43 *	4.58 *	5.24 *	4.08 *	1.46 *
3	4.90 *	4.70 *	5.19 *	5.50 *	5.59 *	5.43 *	4.58 *	5.25 *	4.09 *	1.46 *
1	2.45 *	2.35 *	2.60 *	2.75 *	2.80 *	2.72 *	2.29 *	2.62 *	2.04 *	0.73 *
0	2.45 *	2.35 *	2.60 *	2.75 *	2.79 *	2.72 *	2.29 *	2.62 *	2.04 *	0.73 *
-1	4.89 *	4.69 *	5.18 *	5.48 *	5.58 *	5.42 *	4.57 *	5.24 *	4.09 *	1.46 *
-3	4.87 *	4.67 *	5.16 *	5.46 *	5.56 *	5.40 *	4.56 *	5.23 *	4.08 *	1.46 *
-5	4.85 *	4.64 *	5.13 *	5.44 *	5.54 *	5.38 *	4.54 *	5.20 *	4.05 *	1.45 *
-7	4.82 *	4.61 *	5.09 *	5.40 *	5.50 *	5.35 *	4.52 *	5.17 *	4.03 *	1.44 *
-9	4.78 *	4.58 *	5.05 *	5.36 *	5.46 *	5.31 *	4.48 *	5.13 *	4.00 *	1.42 *
-11	4.74 *	4.54 *	5.01 *	5.31 *	5.42 *	5.27 *	4.45 *	5.09 *	3.96 *	1.41 *
-13	4.70 *	4.50 *	4.96 *	5.26 *	5.36 *	5.22 *	4.40 *	5.03 *	3.91 *	1.39 *
-15	4.65 *	4.45 *	4.91 *	5.21 *	5.30 *	5.16 *	4.35 *	4.97 *	3.85 *	1.36 *
-17	5.73 *	5.49 *	6.05 *	6.42 *	6.53 *	6.35 *	5.35 *	6.11 *	4.73 *	1.66 *
-19.5	6.75 *	6.46 *	7.12 *	7.55 *	7.68 *	7.47 *	6.29 *	7.16 *	5.53 *	1.93 *
-22.5	6.60 *	6.30 *	6.95 *	7.36 *	7.49 *	7.28 *	6.12 *	6.96 *	5.35 *	1.85 *

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LUMENS TABULATION - (Cont.)

-25.5	7.47 *	7.13 *	7.85 *	8.33 *	8.47 *	8.21 *	6.90 *	7.82 *	5.97 *	2.04 *
-29	8.20 *	7.82 *	8.62 *	9.12 *	9.27 *	8.97 *	7.51 *	8.49 *	6.43 *	2.17 *
-33	8.75 *	8.35 *	9.18 *	9.69 *	9.82 *	9.49 *	7.92 *	8.92 *	6.67 *	2.19 *
-37.5	9.06 *	8.63 *	9.47 *	9.97 *	10.07 *	9.70 *	8.07 *	9.04 *	6.63 *	2.10 *
-42.5	8.25 *	7.85 *	8.59 *	9.03 *	9.07 *	8.69 *	7.20 *	7.98 *	5.71 *	1.74 *
-47.5	10.57 *	10.04 *	10.97 *	11.49 *	11.50 *	10.95 *	9.00 *	9.76 *	6.72 *	1.94
-55	10.28 *	9.73 *	10.59 *	11.04 *	10.98 *	10.31 *	8.28 *	8.59 *	5.51 *	1.46
-65	5.19 *	4.89 *	5.28 *	5.45 *	5.33 *	4.87 *	3.77 *	3.67	2.17	0.54
-75	1.27	1.19	1.27	1.29	1.21	1.08	0.80	0.74	0.44	0.13
-85	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.01
-90										
Total	256.03	244.37	268.74	283.51	286.62	276.07	229.57	256.20	190.25	62.83

Vert.	Horizontal Angles			
Angles	75	85	90	Total
90	0.00	0.00	0.21	
85	0.02	0.00	4.72	
75	0.05	0.00	52.67	
65	0.11	0.00	148.22	
55	0.17	0.00	170.61	
47.5	0.17	0.00	135.83	
42.5	0.23	0.00	151.11	
37.5	0.25	0.00	147.43	
33	0.26	0.00	138.99	
29	0.25	0.00	126.91	
25.5	0.23	0.00	112.22	
22.5	0.25	0.00	114.98	
19.5	0.22	0.00	97.64	
17	0.18	0.00	79.15	
15	0.18	0.00	79.95	

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

LUMENS TABULATION - (Cont.)

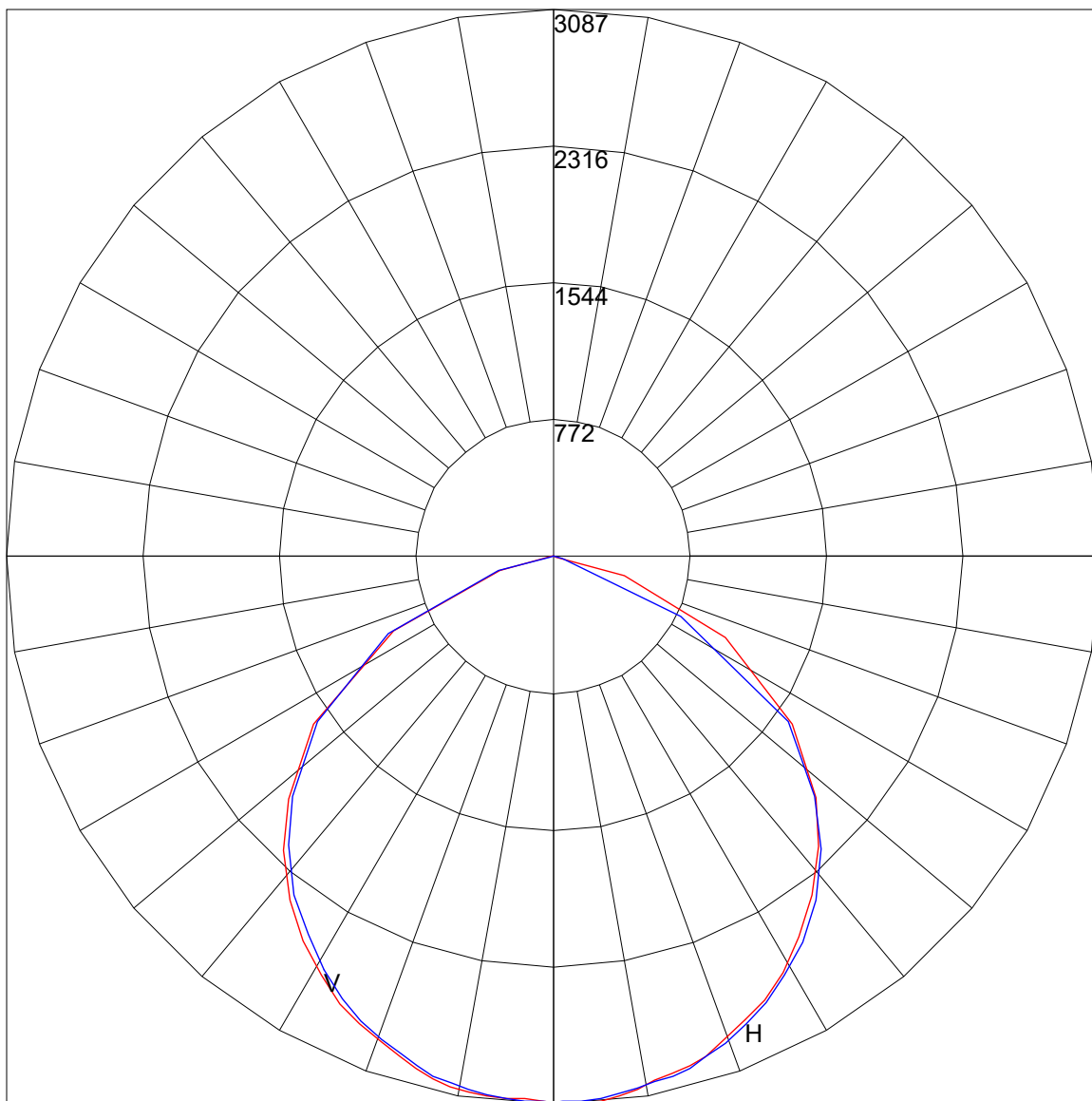
13			
	0.19	0.00	80.59
11			
	0.19	0.00	81.11
9			
	0.19	0.00	81.54
7			
	0.20	0.00	81.86
5			
	0.20	0.00	82.06
3			
	0.20	0.00	82.16
1			
	0.10	0.00	41.08
0			
	0.10	0.00	41.05
-1			
	0.20	0.00	81.92
-3			
	0.20	0.00	81.62
-5			
	0.20	0.00	81.24
-7			
	0.20	0.00	80.79
-9			
	0.19	0.00	80.22
-11			
	0.19	0.00	79.57
-13			
	0.19	0.00	78.82
-15			
	0.18	0.00	77.94
-17			
	0.22	0.00	96.05
-19.5			
	0.25	0.00	113.00
-22.5			
	0.24	0.00	110.20
-25.5			
	0.26	0.00	124.51
-29			
	0.27	0.00	136.28
-33			
	0.27	0.00	144.69
-37.5			
	0.25	0.00	148.67
-42.5			
	0.20	0.00	134.22
-47.5			
	0.21	0.00	170.33
-55			
	0.15	0.00	162.34
-65			
	0.06	0.00	79.63
-75			
	0.02	0.00	19.10

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LUMENS TABULATION - (Cont.)

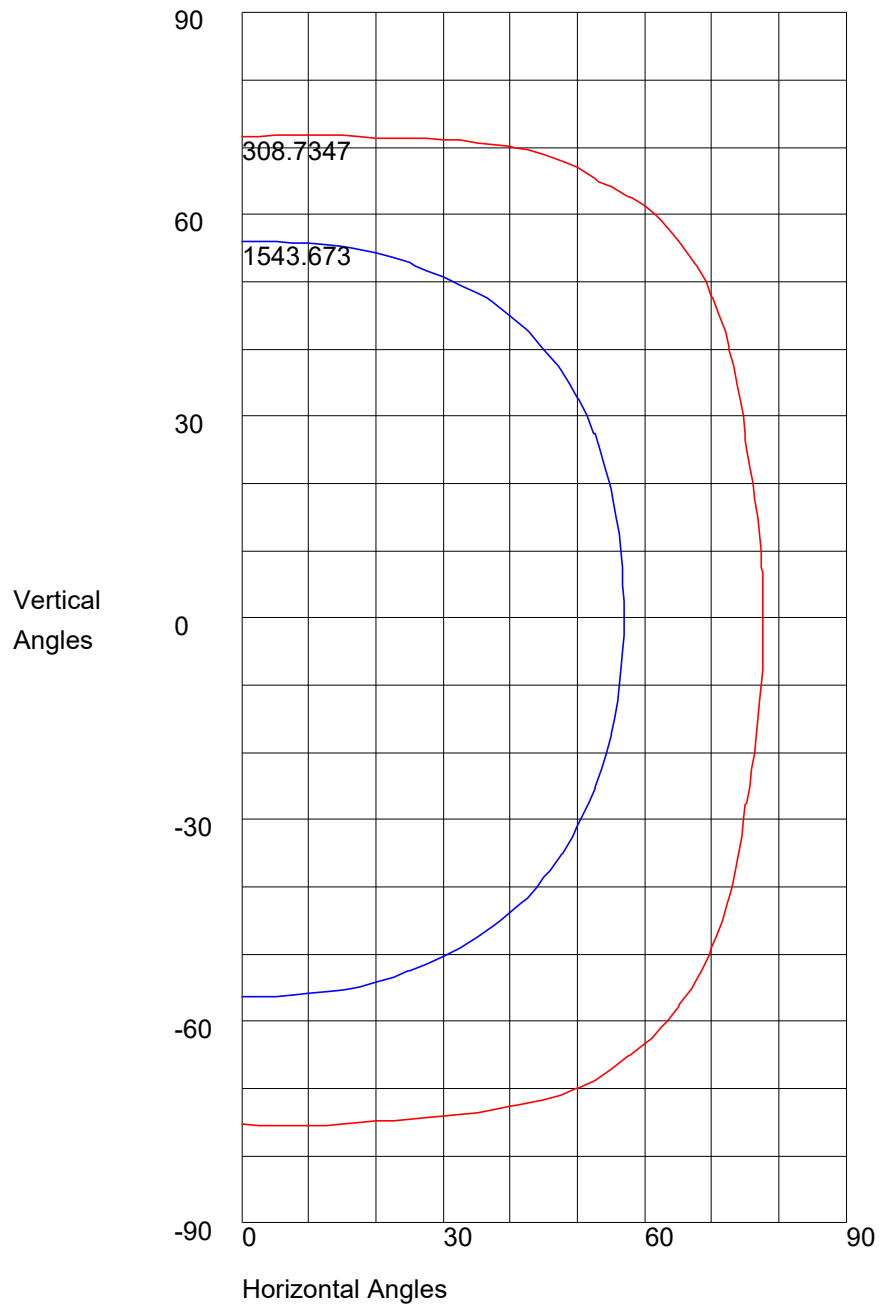
-85	0.00	0.00	0.63
-90			
Total	7.91	0.04	4213.86

AXIAL CANDELA DISPLAY



Maximum Candela = 3087.347 Located At Horizontal Angle = 3, Vertical Angle = 0
H - Horizontal Axial Candela
V - Vertical Axial Candela

ISOCANDELA CURVES



Maximum Candela = 3087.347 Located At Horizontal Angle = 3, Vertical Angle = 0
50% Maximum Candela = 1543.6735
10% Maximum Candela = 308.7347