

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P484787

Luminaire Tested: **IFLD-S-SA3B-740-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484787  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-740-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

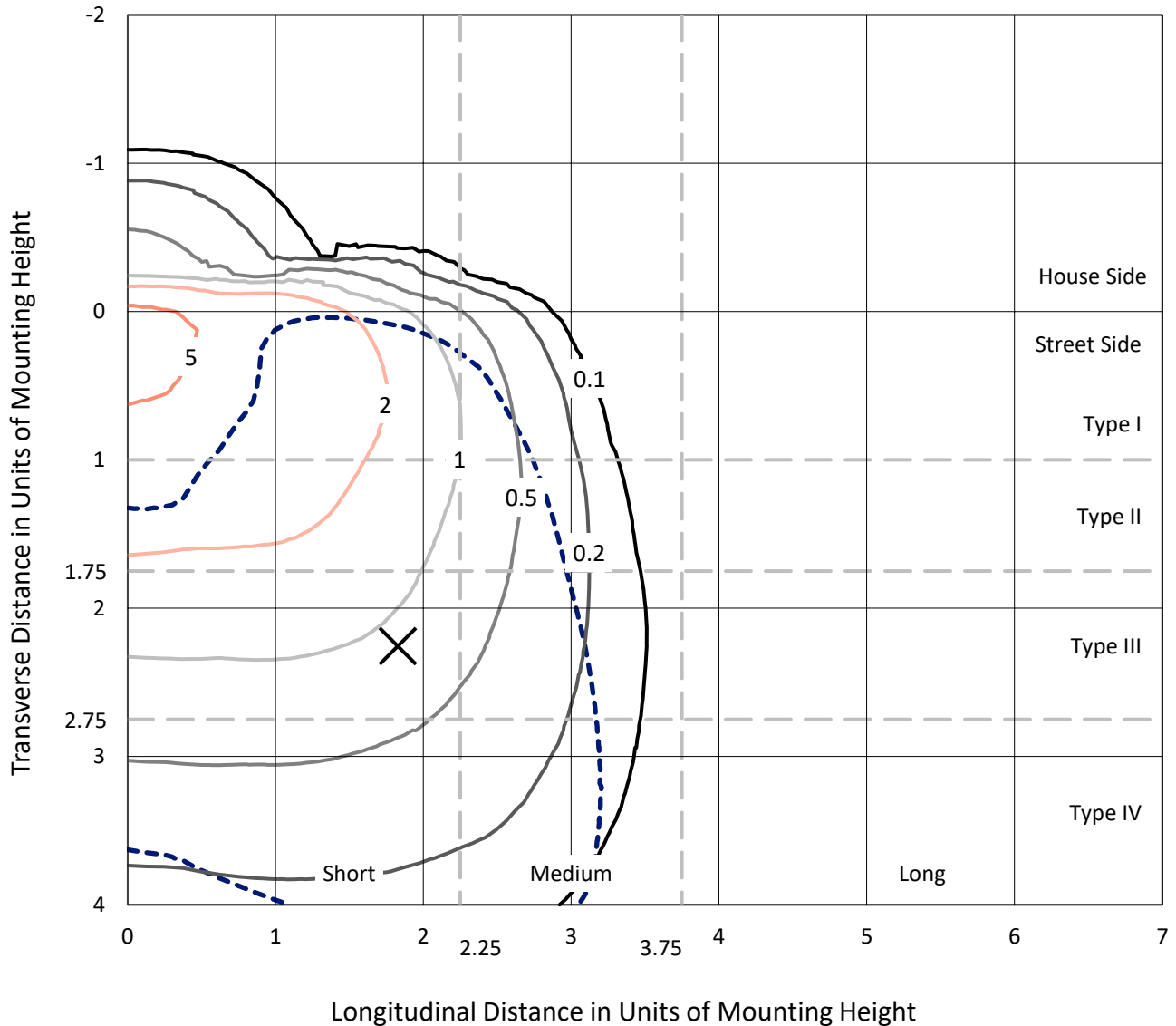
Lumens per Lamp: N/A  
Luminaire Lumens: 14057.1 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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 CATALOG NUMBER: IFLD-S-SA3B-740-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

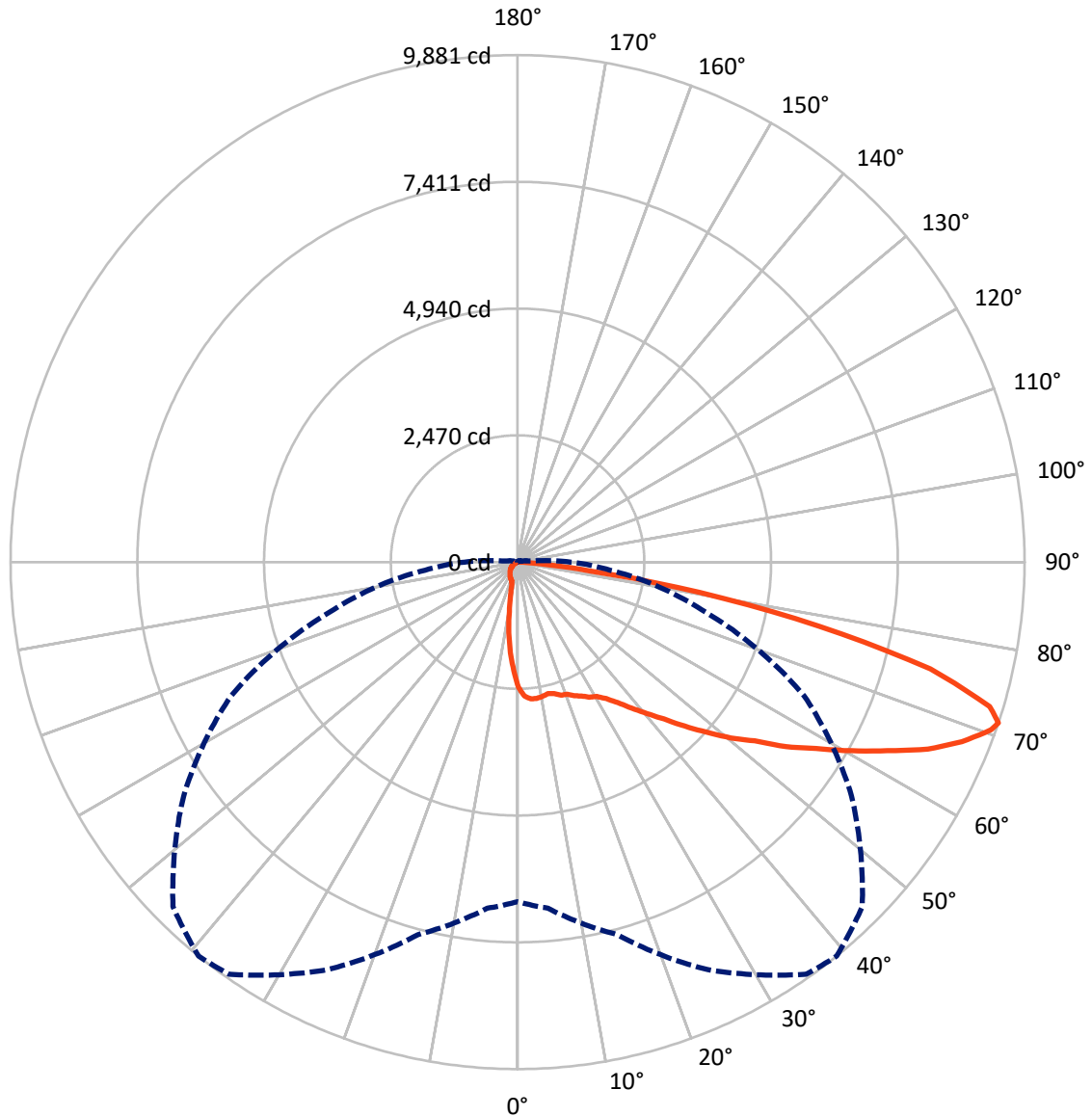
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P484787  
CATALOG NUMBER: IFLD-S-SA3B-740-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484787  
 CATALOG NUMBER: IFLD-S-SA3B-740-U-SL4-HSS

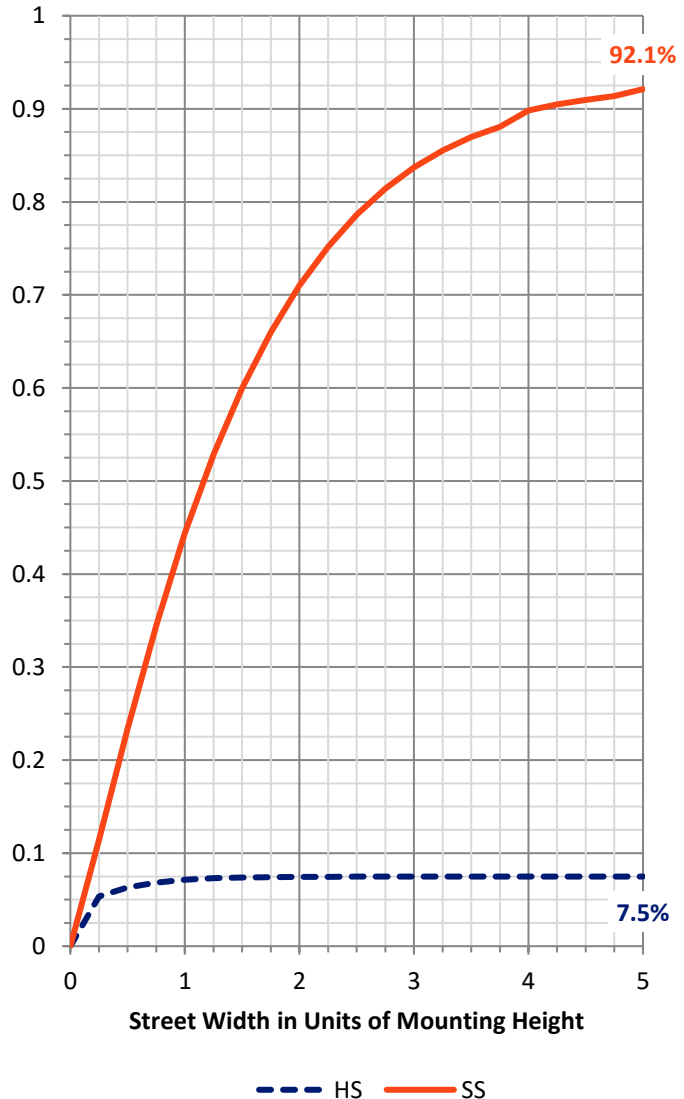
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1058.3	0.0	1058.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	12998.8	0.0	12998.8
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	14057.1	0.0	14057.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.6	1.5
10°-20°	503.5	3.6
20°-30°	808.3	5.8
30°-40°	1237.3	8.8
40°-50°	1986.1	14.1
50°-60°	2917.2	20.8
60°-70°	3674.1	26.1
70°-80°	2452.0	17.4
80°-90°	274.0	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14057.1	100.0
0°-180°	14057.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P484787

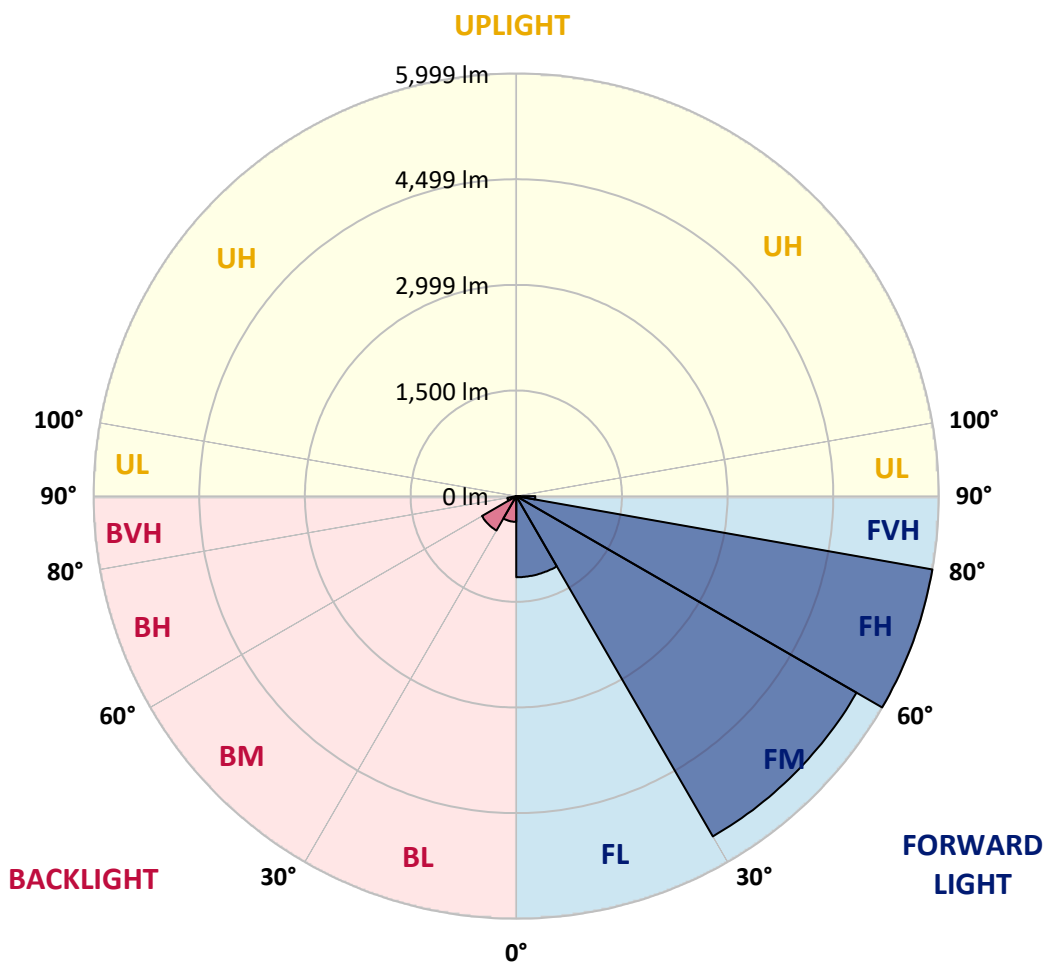
CATALOG NUMBER: IFLD-S-SA3B-740-U-SL4-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.0	8.2			
FM (30°-60°)	5578.1	39.7			
FH (60°-80°)	5998.8	42.7			G3/7500
FVH (80°-90°)	271.0	1.9			G3/500
BL (0°-30°)	365.4	2.6	B1/500		
BM (30°-60°)	562.5	4.0	B1/1000		
BH (60°-80°)	127.4	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P484787

CATALOG NUMBER: IFLD-S-SA3B-740-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7
2.5°	2636.6	2662.5	2636.6	2625.6	2614.5	2616.4	2586.9	2592.4	2557.4	2511.3	2474.4
5°	2719.6	2754.6	2727.0	2714.1	2712.2	2677.2	2662.5	2627.4	2585.0	2513.1	2468.9
7.5°	2712.2	2704.9	2717.8	2706.7	2682.7	2682.7	2666.1	2616.4	2574.0	2492.8	2417.2
10°	2656.9	2679.0	2668.0	2655.1	2660.6	2662.5	2631.1	2596.1	2583.2	2502.0	2378.5
12.5°	2651.4	2614.5	2655.1	2656.9	2633.0	2631.1	2627.4	2618.2	2577.6	2503.9	2387.7
15°	2633.0	2618.2	2658.8	2660.6	2666.1	2660.6	2666.1	2658.8	2618.2	2575.8	2428.3
17.5°	2647.7	2631.1	2688.3	2715.9	2703.0	2728.8	2719.6	2686.4	2651.4	2601.6	2467.0
20°	2651.4	2675.4	2738.0	2749.1	2789.7	2747.3	2745.4	2710.4	2688.3	2634.8	2491.0
22.5°	2719.6	2730.7	2808.1	2832.1	2833.9	2828.4	2782.3	2741.7	2732.5	2666.1	2496.5
25°	2822.9	2861.6	2896.6	2911.4	2916.9	2891.1	2843.1	2791.5	2769.4	2727.0	2553.7
27.5°	3005.4	2981.4	3012.8	3034.9	2972.2	2981.4	2920.6	2876.3	2845.0	2808.1	2620.0
30°	3167.7	3145.5	3147.4	3143.7	3090.2	3040.4	3023.8	2946.4	2907.7	2922.4	2723.3
32.5°	3313.3	3265.4	3305.9	3287.5	3187.9	3173.2	3160.3	3062.6	3069.9	3138.2	2878.2
35°	3447.9	3431.3	3464.5	3431.3	3364.9	3361.3	3348.3	3263.5	3304.1	3401.8	3143.7
37.5°	3571.4	3577.0	3617.5	3601.0	3606.5	3610.2	3602.8	3512.4	3628.6	3848.0	3453.4
40°	3685.8	3678.4	3778.0	3829.6	3840.6	3881.2	3881.2	3859.1	4037.9	4285.0	3883.1
42.5°	3807.5	3825.9	3955.0	4041.6	4146.7	4181.7	4229.7	4240.8	4517.3	4799.4	4321.9
45°	4006.6	3975.2	4139.3	4344.0	4436.2	4559.7	4633.5	4696.2	5029.9	5417.1	4760.7
47.5°	4259.2	4196.5	4340.3	4637.2	4851.0	4952.5	5085.2	5168.2	5494.5	5894.6	5175.6
50°	4539.4	4474.9	4545.0	4954.3	5203.2	5387.6	5557.2	5662.3	6056.9	6429.3	5477.9
52.5°	4856.6	4797.6	4808.6	5284.3	5651.3	5785.9	6009.0	6165.7	6558.4	6752.0	5584.9
55°	5194.0	5179.2	5144.2	5607.0	6044.0	6346.4	6481.0	6669.0	7072.8	6927.2	5701.0
57.5°	5533.3	5487.2	5536.9	6034.8	6674.6	6855.3	7041.5	7154.0	7358.6	7080.2	5656.8
60°	5852.2	5855.9	5926.0	6499.4	7211.1	7467.4	7635.2	7567.0	7651.8	7146.6	5555.4
62.5°	6121.4	6114.1	6291.1	7021.2	7921.0	8094.3	8219.7	7915.5	7788.2	7211.1	5378.4
65°	6363.0	6445.9	6724.4	7642.6	8588.4	8787.6	8712.0	8245.5	7921.0	7021.2	4880.6
67.5°	6545.5	6669.0	7152.1	8227.1	9200.6	9340.7	9235.6	8496.3	7764.3	6276.3	3975.2
70°	6652.4	6777.8	7458.2	8713.8	9689.2	9790.6	9543.5	8302.7	6849.7	4545.0	2479.9
71°	6619.3	6772.3	7517.2	8765.4	9805.4	9880.9	9497.4	7945.0	6160.2	3805.6	1808.8
72.5°	6318.7	6462.5	7272.0	8728.6	9665.2	9619.1	9137.9	7085.7	4849.2	2426.4	934.8
75°	4642.7	4797.6	6241.3	7550.4	8627.2	8310.0	7395.5	4972.7	2529.7	743.1	272.9
77.5°	2312.1	2337.9	3873.8	5481.6	6327.9	6012.6	4956.1	2773.1	945.9	219.4	136.4
80°	1065.7	1073.1	1452.9	2839.5	3825.9	3601.0	2776.8	1368.1	427.8	116.2	106.9
82.5°	726.5	737.5	875.8	1176.3	1661.3	1401.3	1124.7	875.8	245.2	70.1	105.1
85°	132.8	121.7	490.5	623.2	641.6	435.1	389.0	757.8	92.2	40.6	92.2
87.5°	0.0	1.8	68.2	254.4	228.6	101.4	132.8	184.4	9.2	12.9	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: IFLD-S-SA3B-740-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7	2446.7
2.5°	2443.0	2422.8	2354.5	2278.9	2210.7	2157.3	2089.0	2057.7	2007.9	1980.2	1978.4
5°	2408.0	2352.7	2234.7	2107.5	1965.5	1847.5	1716.6	1642.8	1558.0	1532.2	1526.7
7.5°	2349.0	2269.7	2096.4	1917.6	1700.0	1491.6	1331.2	1159.8	1054.7	1010.4	993.8
10°	2312.1	2216.3	1980.2	1712.9	1408.7	1115.5	890.6	708.0	612.1	566.0	555.0
12.5°	2312.1	2208.9	1886.2	1517.5	1113.7	763.3	551.3	446.2	414.9	403.8	403.8
15°	2306.6	2194.1	1795.9	1316.5	824.2	512.6	411.2	389.0	385.4	383.5	381.7
17.5°	2334.3	2168.3	1703.7	1100.8	582.6	403.8	378.0	374.3	370.6	370.6	366.9
20°	2354.5	2153.6	1593.0	872.1	435.1	374.3	363.2	357.7	355.9	354.0	357.7
22.5°	2337.9	2131.4	1456.6	652.7	379.8	355.9	348.5	342.9	339.3	339.3	341.1
25°	2369.3	2111.2	1320.2	492.3	355.9	339.3	331.9	328.2	326.4	324.5	320.8
27.5°	2411.7	2120.4	1157.9	396.4	335.6	322.7	315.3	311.6	309.8	306.1	309.8
30°	2463.3	2118.5	979.1	346.6	317.1	304.2	296.9	295.0	291.3	289.5	291.3
32.5°	2551.8	2166.5	794.7	320.8	296.9	285.8	278.4	276.6	274.7	272.9	271.0
35°	2741.7	2225.5	621.4	300.5	278.4	265.5	260.0	256.3	254.4	252.6	250.8
37.5°	2975.9	2356.4	473.9	282.1	260.0	247.1	241.5	239.7	232.3	230.5	228.6
40°	3269.1	2496.5	365.1	261.8	243.4	230.5	224.9	219.4	210.2	206.5	202.8
42.5°	3634.1	2633.0	300.5	243.4	224.9	215.7	206.5	197.3	189.9	182.5	178.8
45°	3999.2	2791.5	263.7	226.8	210.2	199.1	191.8	178.8	165.9	154.9	153.0
47.5°	4303.4	2848.7	241.5	208.3	195.4	186.2	175.2	158.6	140.1	129.1	127.2
50°	4530.2	2815.5	219.4	189.9	178.8	169.6	154.9	134.6	116.2	105.1	101.4
52.5°	4574.5	2669.8	199.1	175.2	162.3	151.2	134.6	112.5	92.2	81.1	79.3
55°	4543.1	2428.3	182.5	162.3	147.5	130.9	112.5	90.3	71.9	60.8	59.0
57.5°	4478.6	2142.5	164.1	145.7	129.1	112.5	92.2	73.8	53.5	42.4	42.4
60°	4259.2	1753.5	145.7	127.2	110.6	95.9	75.6	53.5	36.9	27.7	25.8
62.5°	3953.1	1347.8	127.2	108.8	95.9	79.3	59.0	38.7	22.1	14.8	14.8
65°	3394.4	944.0	106.9	90.3	79.3	64.5	44.3	24.0	12.9	5.5	5.5
67.5°	2579.5	584.5	88.5	75.6	68.2	51.6	31.3	14.8	5.5	1.8	0.0
70°	1480.6	304.2	70.1	60.8	53.5	38.7	22.1	7.4	3.7	0.0	0.0
71°	1034.4	224.9	62.7	53.5	47.9	35.0	18.4	5.5	1.8	0.0	0.0
72.5°	518.1	149.3	53.5	44.3	38.7	27.7	14.8	5.5	1.8	0.0	0.0
75°	184.4	95.9	36.9	29.5	27.7	20.3	9.2	3.7	1.8	0.0	0.0
77.5°	127.2	77.4	25.8	18.4	18.4	12.9	5.5	1.8	1.8	0.0	0.0
80°	116.2	42.4	16.6	11.1	9.2	7.4	3.7	1.8	0.0	0.0	0.0
82.5°	116.2	31.3	9.2	7.4	5.5	3.7	1.8	0.0	0.0	0.0	0.0
85°	81.1	16.6	5.5	5.5	3.7	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	5.5	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)