

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: P484764

Luminaire Tested: **IFLD-S-SA6C-735-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484764  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (96) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

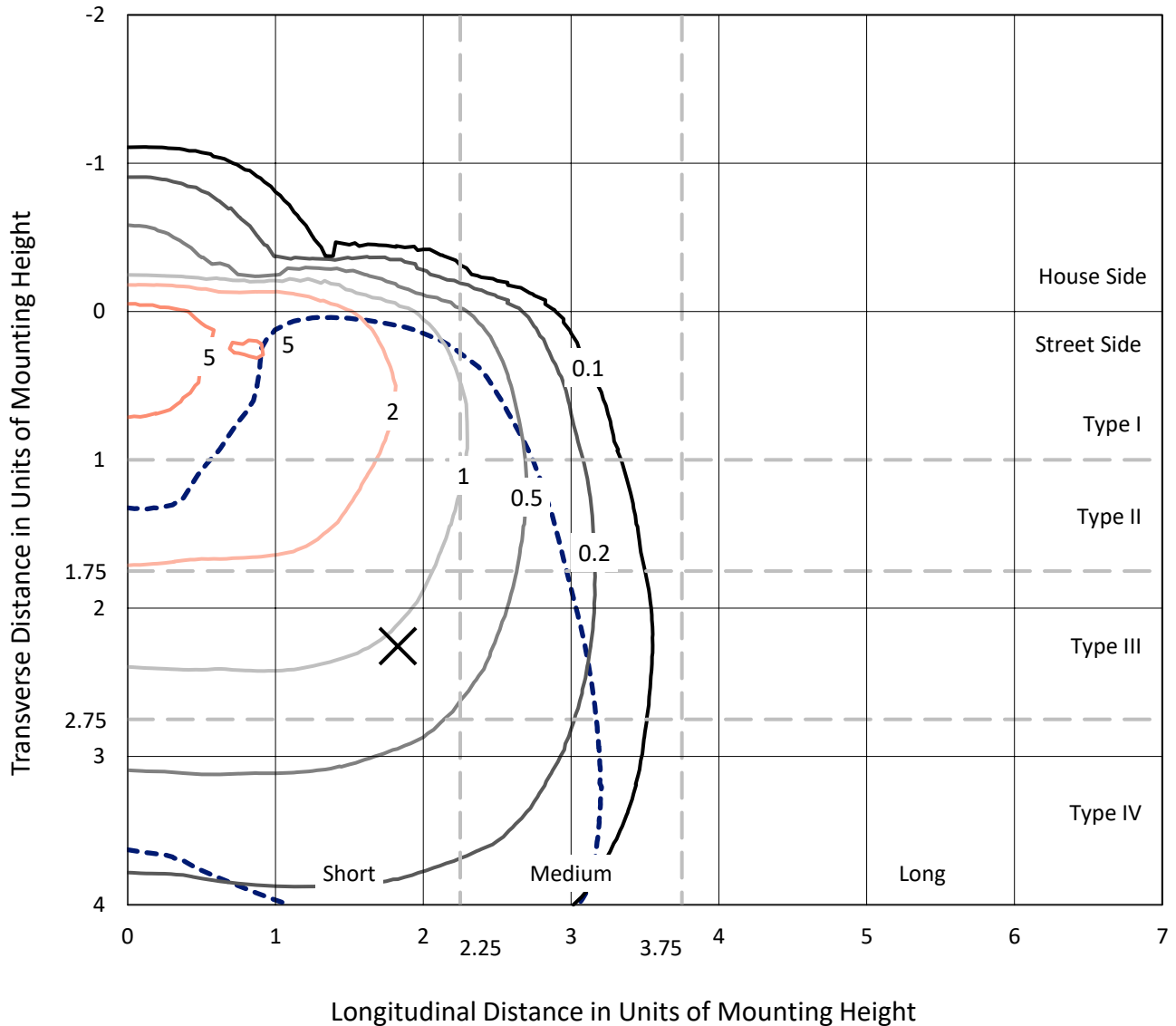
Lumens per Lamp: N/A  
Luminaire Lumens: 33856.4 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 321.5  
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

REPORT NUMBER: P484764  
 CATALOG NUMBER: IFLD-S-SA6C-735-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

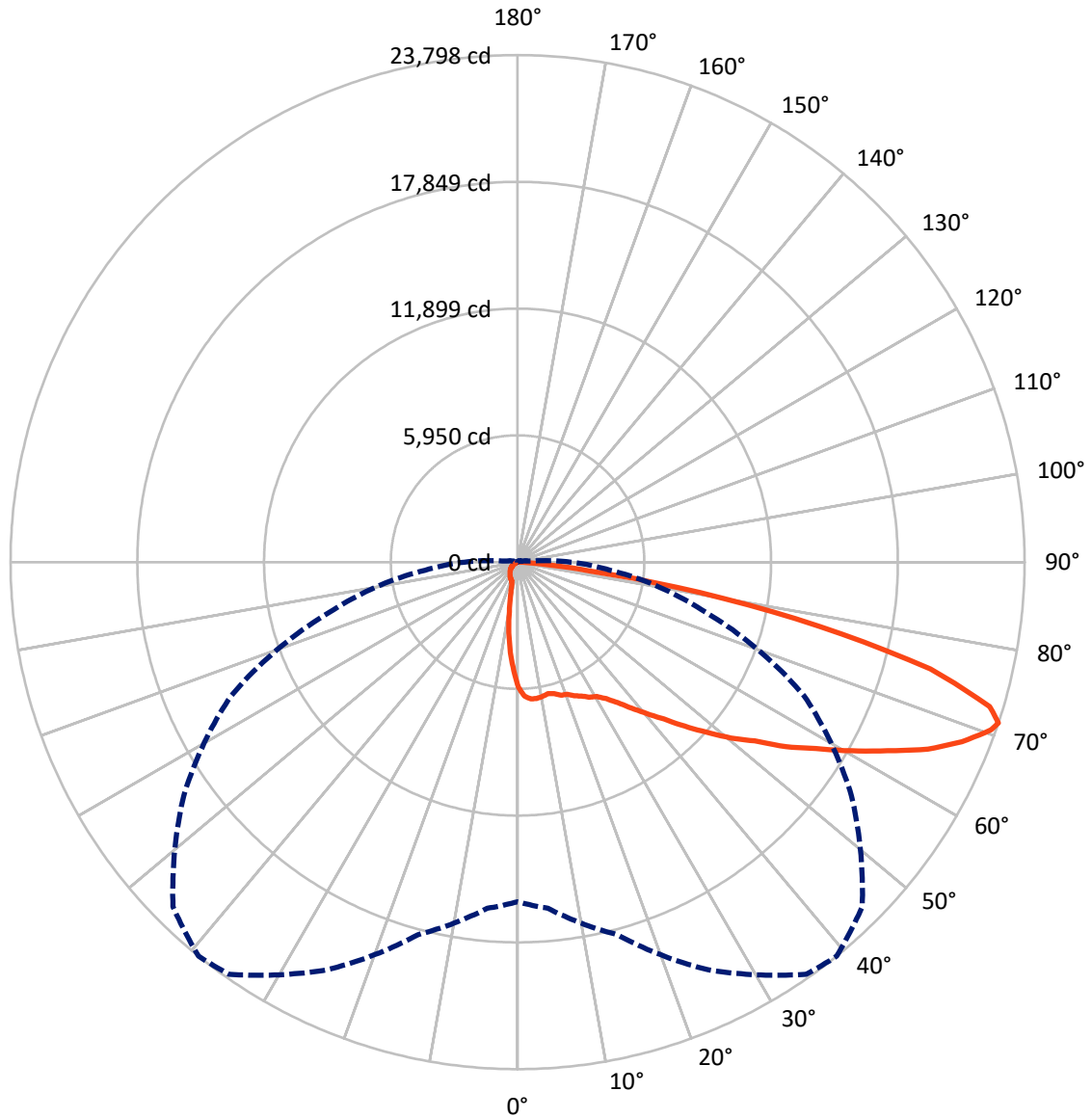
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P484764  
CATALOG NUMBER: IFLD-S-SA6C-735-U-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P484764

CATALOG NUMBER: IFLD-S-SA6C-735-U-SL4-HSS

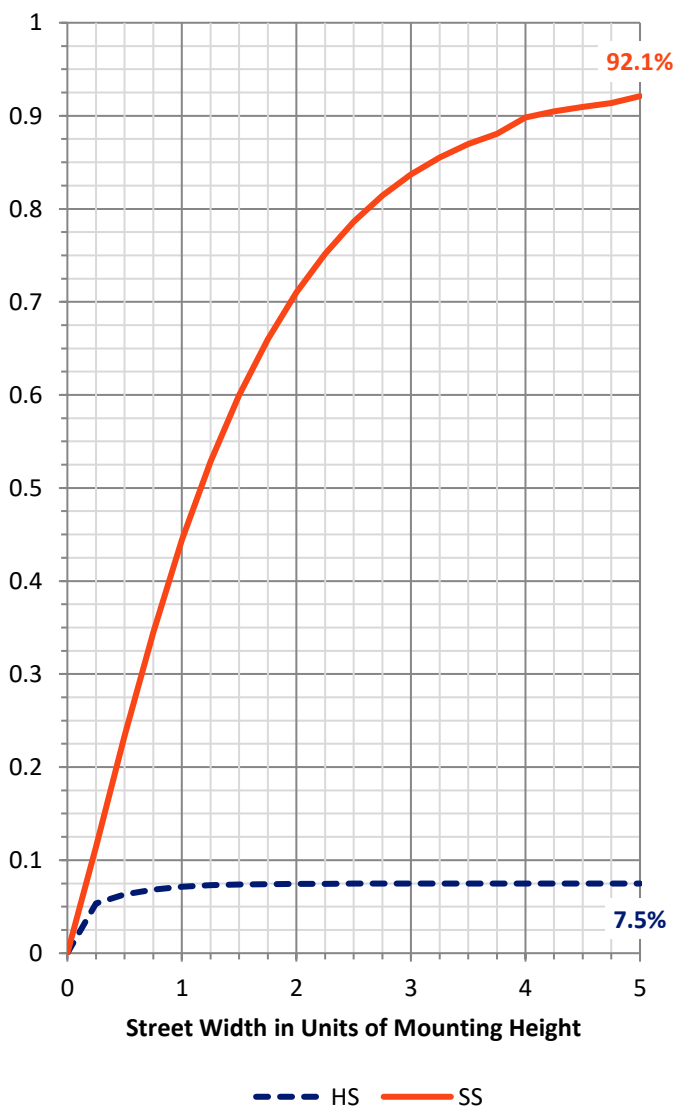
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2548.8	0.0	2548.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	31307.6	0.0	31307.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	33856.4	0.0	33856.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.7	1.5
10°-20°	1212.7	3.6
20°-30°	1946.7	5.8
30°-40°	2980.0	8.8
40°-50°	4783.4	14.1
50°-60°	7026.1	20.8
60°-70°	8849.1	26.1
70°-80°	5905.7	17.4
80°-90°	660.0	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°	33856.4	100.0
0°-180°	33856.4	100.0

**Coefficient of Utilization**



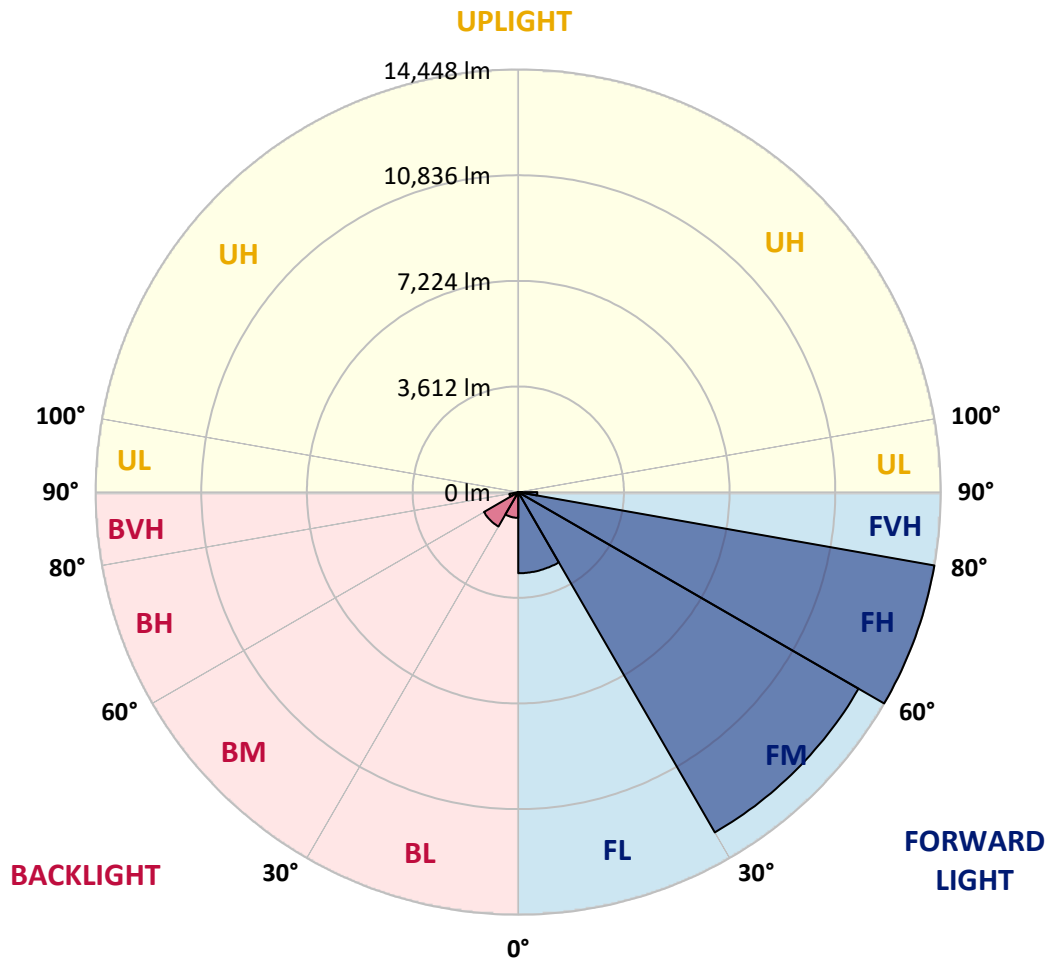
REPORT NUMBER: P484764  
 CATALOG NUMBER: IFLD-S-SA6C-735-U-SL4-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2772.1	8.2			
FM	(30°-60°)	13434.7	39.7			
FH	(60°-80°)	14448.0	42.7			G5
FVH	(80°-90°)	652.7	1.9			G4/750
BL	(0°-30°)	880.0	2.6	B2/1000		
BM	(30°-60°)	1354.8	4.0	B2/2500		
BH	(60°-80°)	306.8	0.9	B1/500		G1/500
BVH	(80°-90°)	7.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





REPORT NUMBER: P484764

CATALOG NUMBER: IFLD-S-SA6C-735-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9
2.5°	6350.3	6412.5	6350.3	6323.7	6297.0	6301.5	6230.4	6243.7	6159.4	6048.4	5959.5
5°	6550.2	6634.5	6567.9	6536.8	6532.4	6448.0	6412.5	6328.1	6226.0	6052.8	5946.2
7.5°	6532.4	6514.6	6545.7	6519.1	6461.3	6461.3	6421.4	6301.5	6199.3	6003.9	5821.9
10°	6399.2	6452.5	6425.8	6394.7	6408.1	6412.5	6337.0	6252.6	6221.5	6026.1	5728.6
12.5°	6385.9	6297.0	6394.7	6399.2	6341.4	6337.0	6328.1	6305.9	6208.2	6030.6	5750.8
15°	6341.4	6305.9	6403.6	6408.1	6421.4	6408.1	6421.4	6403.6	6305.9	6203.8	5848.5
17.5°	6377.0	6337.0	6474.7	6541.3	6510.2	6572.4	6550.2	6470.2	6385.9	6265.9	5941.8
20°	6385.9	6443.6	6594.6	6621.2	6718.9	6616.8	6612.3	6528.0	6474.7	6345.9	5999.5
22.5°	6550.2	6576.8	6763.3	6821.0	6825.5	6812.2	6701.1	6603.4	6581.2	6421.4	6012.8
25°	6798.8	6892.1	6976.5	7012.0	7025.3	6963.2	6847.7	6723.4	6670.1	6567.9	6150.5
27.5°	7238.5	7180.8	7256.2	7309.5	7158.5	7180.8	7034.2	6927.6	6852.1	6763.3	6310.4
30°	7629.3	7576.0	7580.4	7571.5	7442.8	7322.9	7282.9	7096.4	7003.1	7038.6	6559.0
32.5°	7980.1	7864.6	7962.3	7917.9	7678.1	7642.6	7611.5	7376.1	7393.9	7558.2	6932.1
35°	8304.3	8264.3	8344.2	8264.3	8104.4	8095.6	8064.5	7860.2	7957.9	8193.3	7571.5
37.5°	8601.8	8615.1	8712.8	8672.9	8686.2	8695.1	8677.3	8459.7	8739.5	9267.9	8317.6
40°	8877.1	8859.4	9099.2	9223.5	9250.2	9347.9	9347.9	9294.6	9725.3	10320.4	9352.3
42.5°	9170.2	9214.6	9525.5	9734.2	9987.3	10071.7	10187.2	10213.8	10879.9	11559.4	10409.2
45°	9649.8	9574.3	9969.6	10462.5	10684.5	10982.1	11159.7	11310.7	12114.5	13047.0	11466.1
47.5°	10258.2	10107.2	10453.6	11168.6	11683.7	11928.0	12247.7	12447.5	13233.5	14197.2	12465.3
50°	10933.2	10777.8	10946.5	11932.4	12531.9	12976.0	13384.5	13637.7	14588.0	15485.0	13193.6
52.5°	11697.0	11554.9	11581.6	12727.3	13611.0	13935.2	14472.5	14850.0	15795.9	16262.2	13451.1
55°	12509.7	12474.2	12389.8	13504.4	14556.9	15285.2	15609.4	16062.3	17034.9	16684.0	13730.9
57.5°	13326.8	13215.8	13335.7	14534.7	16075.6	16510.8	16959.4	17230.3	17723.2	17052.6	13624.3
60°	14095.1	14103.9	14272.7	15653.8	17367.9	17985.2	18389.3	18225.0	18429.3	17212.5	13380.1
62.5°	14743.4	14725.6	15152.0	16910.5	19077.6	19495.1	19797.0	19064.3	18757.9	17367.9	12953.8
65°	15325.2	15525.0	16195.5	18407.1	20685.2	21164.8	20982.7	19859.2	19077.6	16910.5	11754.8
67.5°	15764.8	16062.3	17225.8	19814.8	22159.5	22497.0	22243.9	20463.1	18700.2	15116.4	9574.3
70°	16022.4	16324.3	17963.0	20987.2	23336.3	23580.6	22985.5	19996.9	16497.5	10946.5	5972.9
71°	15942.4	16311.0	18105.1	21111.5	23616.1	23798.2	22874.5	19135.3	14836.7	9165.8	4356.4
72.5°	15218.6	15565.0	17514.5	21022.7	23278.6	23167.6	22008.5	17065.9	11679.3	5844.1	2251.5
75°	11181.9	11554.9	15032.1	18185.0	20778.4	20014.6	17812.0	11976.8	6092.8	1789.6	657.2
77.5°	5568.7	5630.9	9330.1	13202.5	15240.8	14481.4	11936.8	6678.9	2278.1	528.5	328.6
80°	2566.8	2584.5	3499.3	6838.8	9214.6	8672.9	6687.8	3295.1	1030.3	279.8	257.6
82.5°	1749.7	1776.3	2109.4	2833.2	4001.1	3375.0	2708.9	2109.4	590.6	168.7	253.1
85°	319.7	293.1	1181.2	1501.0	1545.4	1048.0	937.0	1825.2	222.0	97.7	222.0
87.5°	0.0	4.4	164.3	612.8	550.7	244.2	319.7	444.1	22.2	31.1	40.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484764

CATALOG NUMBER: IFLD-S-SA6C-735-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9	5892.9
2.5°	5884.0	5835.2	5670.9	5488.8	5324.5	5195.7	5031.4	4955.9	4836.0	4769.4	4765.0
5°	5799.7	5666.4	5382.2	5075.8	4733.9	4449.7	4134.4	3956.7	3752.5	3690.3	3677.0
7.5°	5657.6	5466.6	5049.2	4618.4	4094.4	3592.6	3206.2	2793.3	2540.1	2433.6	2393.6
10°	5568.7	5337.8	4769.4	4125.5	3392.8	2686.7	2144.9	1705.3	1474.3	1363.3	1336.7
12.5°	5568.7	5320.1	4542.9	3654.8	2682.2	1838.5	1327.8	1074.7	999.2	972.5	972.5
15°	5555.4	5284.5	4325.3	3170.7	1985.0	1234.5	990.3	937.0	928.1	923.7	919.2
17.5°	5622.0	5222.4	4103.3	2651.1	1403.3	972.5	910.4	901.5	892.6	892.6	883.7
20°	5670.9	5186.8	3836.8	2100.5	1048.0	901.5	874.8	861.5	857.1	852.6	861.5
22.5°	5630.9	5133.5	3508.2	1572.0	914.8	857.1	839.3	826.0	817.1	817.1	821.5
25°	5706.4	5084.7	3179.6	1185.7	857.1	817.1	799.3	790.5	786.0	781.6	772.7
27.5°	5808.5	5106.9	2788.8	954.8	808.2	777.1	759.4	750.5	746.1	737.2	746.1
30°	5932.9	5102.5	2358.1	834.9	763.8	732.7	715.0	710.5	701.6	697.2	701.6
32.5°	6146.0	5217.9	1914.0	772.7	715.0	688.3	670.6	666.1	661.7	657.2	652.8
35°	6603.4	5360.0	1496.5	723.8	670.6	639.5	626.2	617.3	612.8	608.4	603.9
37.5°	7167.4	5675.3	1141.3	679.4	626.2	595.1	581.7	577.3	559.5	555.1	550.7
40°	7873.5	6012.8	879.3	630.6	586.2	555.1	541.8	528.5	506.2	497.4	488.5
42.5°	8752.8	6341.4	723.8	586.2	541.8	519.6	497.4	475.2	457.4	439.6	430.8
45°	9632.1	6723.4	635.0	546.2	506.2	479.6	461.8	430.8	399.7	373.0	368.6
47.5°	10364.8	6861.0	581.7	501.8	470.7	448.5	421.9	381.9	337.5	310.9	306.4
50°	10911.0	6781.1	528.5	457.4	430.8	408.6	373.0	324.2	279.8	253.1	244.2
52.5°	11017.6	6430.3	479.6	421.9	390.8	364.1	324.2	270.9	222.0	195.4	191.0
55°	10942.1	5848.5	439.6	390.8	355.3	315.3	270.9	217.6	173.2	146.5	142.1
57.5°	10786.7	5160.2	395.2	350.8	310.9	270.9	222.0	177.6	128.8	102.1	102.1
60°	10258.2	4223.2	350.8	306.4	266.4	230.9	182.1	128.8	88.8	66.6	62.2
62.5°	9521.0	3246.2	306.4	262.0	230.9	191.0	142.1	93.3	53.3	35.5	35.5
65°	8175.5	2273.7	257.6	217.6	191.0	155.4	106.6	57.7	31.1	13.3	13.3
67.5°	6212.7	1407.7	213.2	182.1	164.3	124.3	75.5	35.5	13.3	4.4	0.0
70°	3566.0	732.7	168.7	146.5	128.8	93.3	53.3	17.8	8.9	0.0	0.0
71°	2491.3	541.8	151.0	128.8	115.5	84.4	44.4	13.3	4.4	0.0	0.0
72.5°	1247.9	359.7	128.8	106.6	93.3	66.6	35.5	13.3	4.4	0.0	0.0
75°	444.1	230.9	88.8	71.1	66.6	48.8	22.2	8.9	4.4	0.0	0.0
77.5°	306.4	186.5	62.2	44.4	44.4	31.1	13.3	4.4	4.4	0.0	0.0
80°	279.8	102.1	40.0	26.6	22.2	17.8	8.9	4.4	0.0	0.0	0.0
82.5°	279.8	75.5	22.2	17.8	13.3	8.9	4.4	0.0	0.0	0.0	0.0
85°	195.4	40.0	13.3	13.3	8.9	4.4	0.0	0.0	0.0	0.0	0.0
87.5°	31.1	13.3	8.9	4.4	4.4	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)