

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: P510104

Luminaire Tested: **VERD-M-CA4-200-760-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-200-760-U-T4-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 910mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25787 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

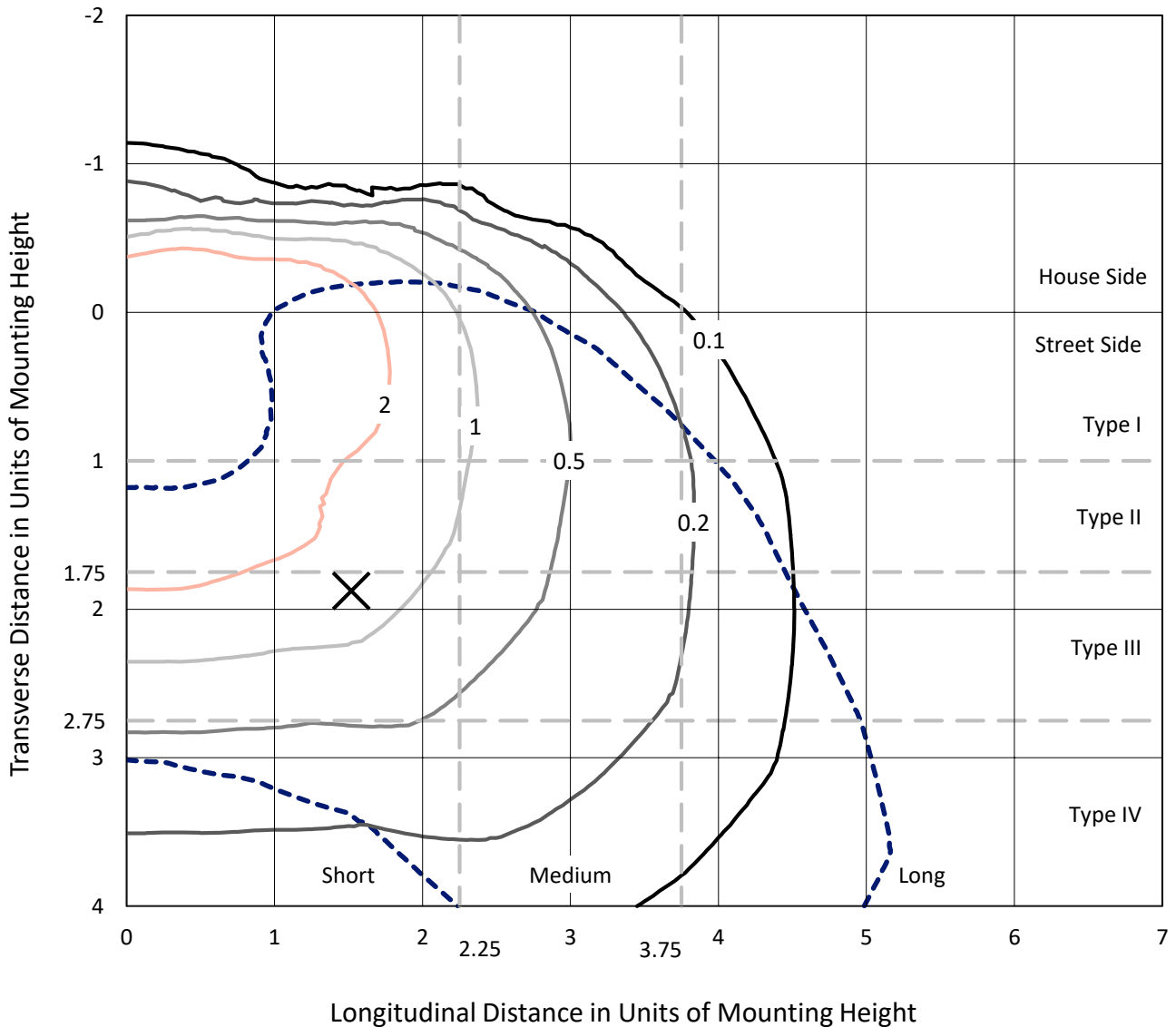
Input Watts (W): 201.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

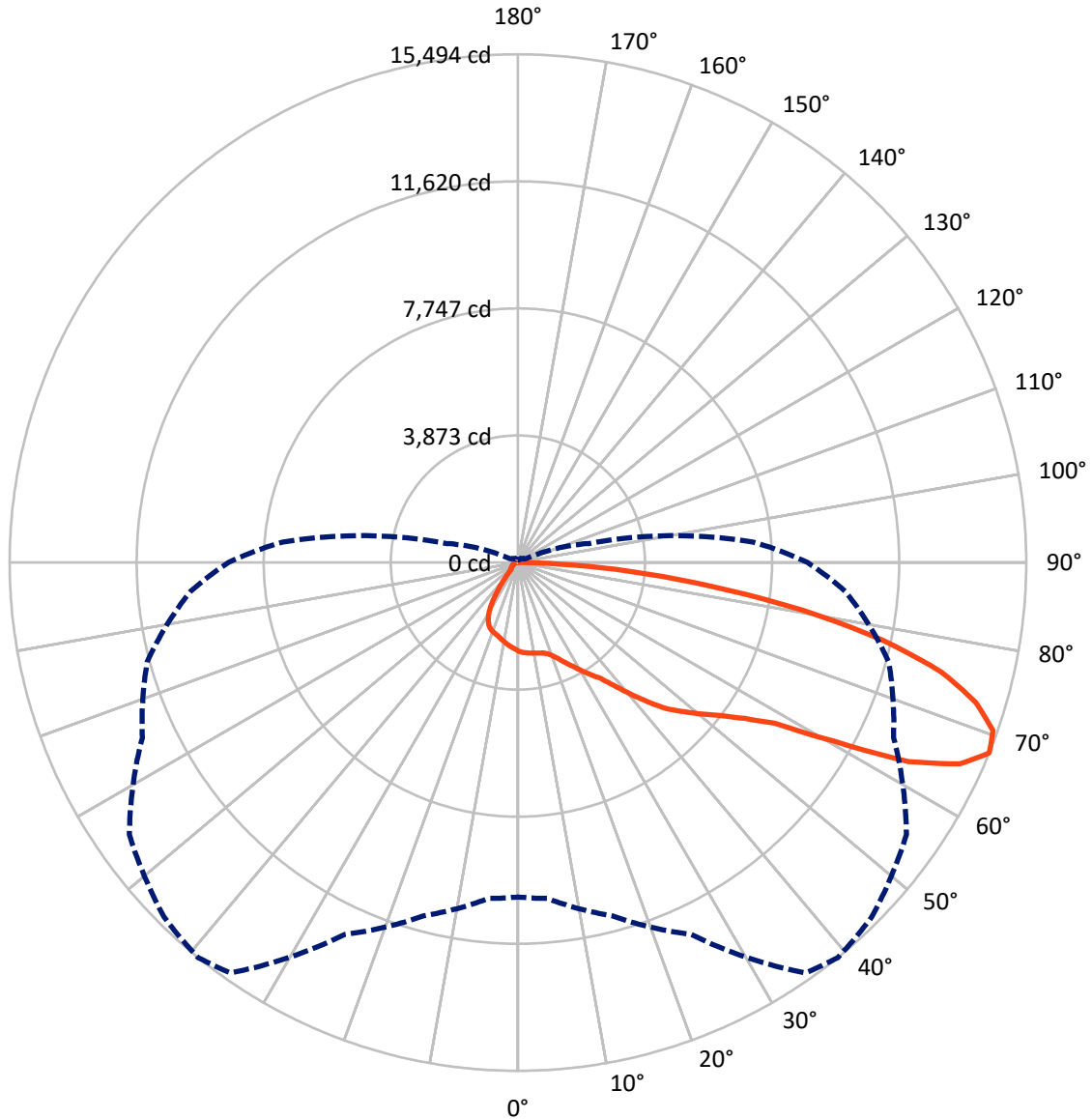
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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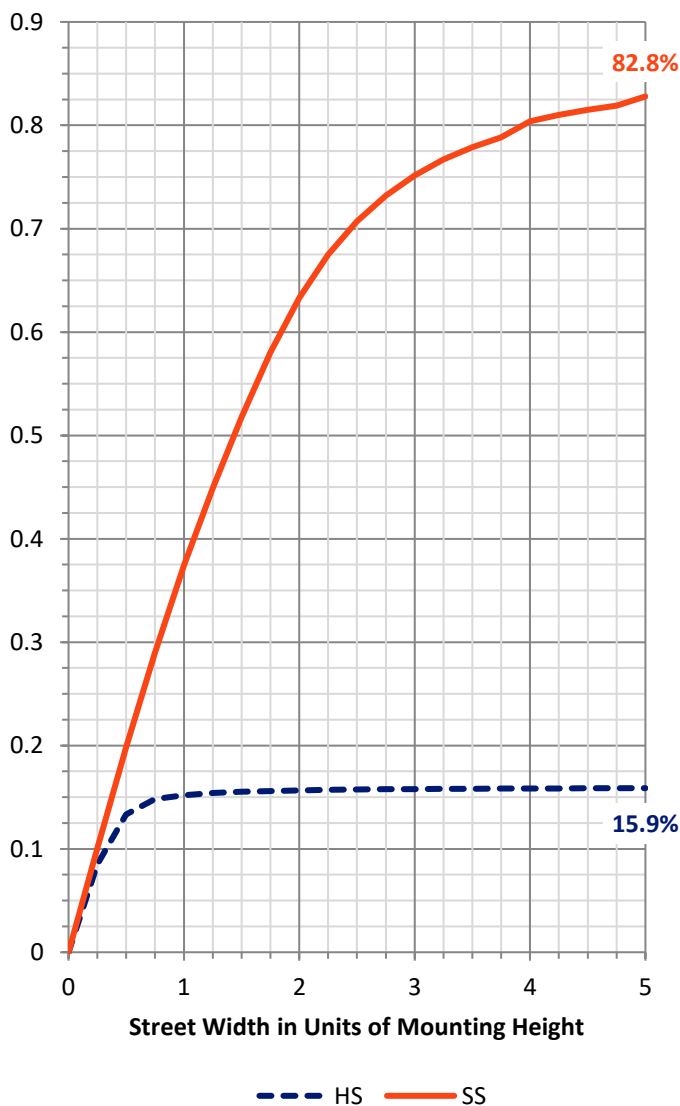
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4140.7	0.0	4140.7
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	21646.3	0.0	21646.3
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	25787.0	0.0	25787.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.9	1.0
10°-20°	758.7	2.9
20°-30°	1344.2	5.2
30°-40°	2152.9	8.3
40°-50°	3453.7	13.4
50°-60°	5048.4	19.6
60°-70°	6727.2	26.1
70°-80°	5048.2	19.6
80°-90°	998.8	3.9
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°	25787.0	100.0
0°-180°	25787.0	100.0

**Coefficient of Utilization**



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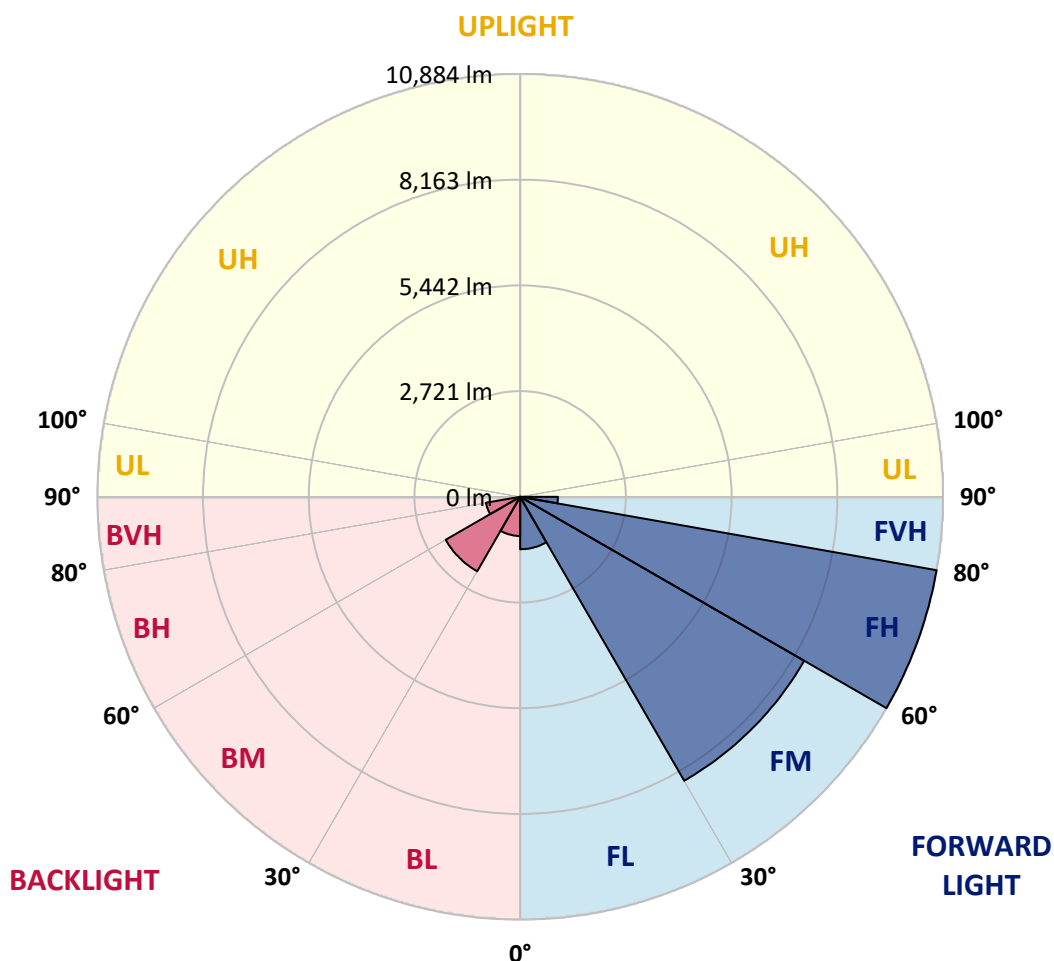
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1349.5	5.2			
FM	(30°-60°)	8440.3	32.7			
FH	(60°-80°)	10883.8	42.2			G4/12000
FVH	(80°-90°)	972.6	3.8			G5
BL	(0°-30°)	1008.3	3.9	B3/2500		
BM	(30°-60°)	2214.7	8.6	B2/2500		
BH	(60°-80°)	891.6	3.5	B2/1000		G2/1000
BVH	(80°-90°)	26.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2
2.5°	2702.8	2739.0	2739.0	2728.7	2735.2	2740.3	2701.5	2711.8	2707.9	2706.7	2714.4
5°	2723.5	2763.7	2761.1	2748.1	2753.3	2763.7	2727.4	2742.9	2737.7	2724.8	2727.4
7.5°	2723.5	2757.2	2765.0	2750.7	2775.3	2788.3	2749.4	2763.7	2770.1	2761.1	2752.0
10°	2713.1	2742.9	2753.3	2750.7	2783.1	2803.8	2766.3	2806.4	2811.6	2811.6	2797.3
12.5°	2709.2	2742.9	2757.2	2768.8	2806.4	2828.4	2806.4	2845.3	2871.2	2869.9	2860.8
15°	2711.8	2749.4	2771.4	2790.9	2831.0	2858.2	2849.2	2908.8	2939.9	2948.9	2948.9
17.5°	2776.6	2822.0	2832.3	2853.1	2880.3	2921.7	2910.1	2986.5	3035.8	3051.3	3073.3
20°	2958.0	2993.0	3006.0	2995.6	3007.2	3033.2	3009.8	3083.7	3157.5	3199.0	3235.3
22.5°	3189.9	3215.9	3204.2	3193.8	3187.3	3193.8	3165.3	3214.6	3297.5	3357.1	3419.3
25°	3366.1	3423.2	3414.1	3385.6	3376.5	3384.3	3348.0	3408.9	3485.3	3547.5	3640.8
27.5°	3579.9	3614.9	3590.3	3579.9	3586.4	3585.1	3563.1	3621.4	3691.4	3769.1	3906.4
30°	3811.9	3841.7	3817.0	3806.7	3818.3	3826.1	3801.5	3903.9	3977.7	4061.9	4239.4
32.5°	4192.8	4264.0	4196.7	4061.9	4064.5	4076.2	4078.8	4216.1	4350.9	4416.9	4651.5
35°	4735.7	4792.7	4703.3	4540.0	4336.6	4328.8	4349.6	4554.3	4825.1	5125.7	5400.3
37.5°	5242.3	5325.2	5244.9	5054.4	4806.9	4747.3	4639.8	4883.4	5309.7	5956.2	6298.2
40°	5849.9	5912.1	5752.8	5586.9	5339.5	5255.2	5082.9	5238.4	5822.7	6823.0	7058.8
42.5°	6338.4	6376.0	6243.8	6070.2	5855.1	5791.6	5614.1	5628.4	6370.8	7582.3	7733.8
45°	6790.6	6830.8	6721.9	6574.2	6438.2	6361.7	6232.2	6302.1	7013.5	8383.0	8291.0
47.5°	7134.0	7174.1	7087.3	6982.4	6841.1	6789.3	6791.9	7043.3	7799.9	9023.0	8791.1
50°	7696.3	7680.7	7454.0	7340.0	7229.8	7257.0	7285.5	7643.2	8592.9	9572.4	9253.7
52.5°	8677.1	8600.7	8132.9	7834.9	7698.9	7745.5	7792.2	8267.7	9493.4	10073.8	9608.7
55°	9786.2	9708.4	9310.7	8673.2	8313.0	8388.2	8348.0	8885.7	10250.0	10555.8	9901.5
57.5°	10610.2	10738.5	10586.9	10239.7	9337.9	9239.4	9150.0	9510.2	10861.6	11037.8	10182.7
60°	11326.7	11505.5	11776.3	11681.8	11298.2	11041.7	10221.5	10239.7	11449.8	11372.1	10294.1
62.5°	12026.4	12131.3	12595.2	12697.6	13173.1	13357.1	12523.9	11182.9	12018.6	11604.0	10369.2
65°	11326.7	11461.5	12268.7	13013.7	14550.4	14796.5	14503.7	12890.6	12437.1	11741.4	10282.4
67.5°	10195.6	10277.2	11149.2	12504.5	15270.8	15493.6	15265.6	14458.4	12632.8	11699.9	10012.9
70°	8717.3	8845.5	9702.0	11518.5	15244.8	15364.0	15165.8	14647.5	12558.9	11461.5	9332.7
72.5°	7209.1	7281.7	8007.2	9819.9	14499.8	14599.6	14494.6	14357.3	12310.2	10796.8	8025.4
75°	5418.5	5434.0	6177.7	7754.6	12820.6	13341.5	13469.8	13857.2	11357.8	9255.0	5935.5
77.5°	3633.1	3787.2	4501.2	5926.4	10524.7	11357.8	11965.5	12248.0	9489.5	6907.2	3156.2
80°	1950.0	1988.9	2758.5	4205.7	7998.2	8795.0	9371.6	9376.8	6636.4	3421.9	704.8
82.5°	903.1	865.5	1389.0	2661.3	5540.3	5895.3	6281.4	5261.7	2657.4	584.3	180.1
85°	400.4	422.4	628.4	1297.0	3074.6	3430.9	3381.7	2329.6	466.4	158.1	110.1
87.5°	149.0	156.8	243.6	523.5	1097.4	1197.2	1076.7	448.3	60.9	55.7	33.7
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2	2700.2
2.5°	2705.4	2705.4	2702.8	2667.8	2660.0	2643.2	2628.9	2639.3	2627.6	2635.4	2627.6
5°	2717.0	2710.5	2695.0	2653.5	2634.1	2596.5	2568.0	2574.5	2558.9	2558.9	2557.7
7.5°	2744.2	2731.3	2704.1	2638.0	2601.7	2547.3	2503.2	2489.0	2473.4	2455.3	2452.7
10°	2788.3	2770.1	2733.9	2643.2	2573.2	2500.6	2424.2	2394.4	2355.5	2327.0	2321.8
12.5°	2849.2	2822.0	2772.7	2662.6	2570.6	2455.3	2352.9	2294.6	2248.0	2206.5	2197.5
15°	2937.3	2910.1	2851.8	2701.5	2571.9	2412.5	2277.8	2180.6	2100.3	2061.4	2062.7
17.5°	3065.6	3046.1	2956.7	2783.1	2596.5	2390.5	2215.6	2061.4	1937.0	1872.2	1863.2
20°	3230.1	3217.1	3108.3	2890.6	2653.5	2394.4	2148.2	1934.4	1751.7	1610.5	1579.4
22.5°	3421.9	3402.4	3269.0	2983.9	2697.6	2384.0	2074.4	1794.5	1519.8	1335.8	1299.6
25°	3635.6	3625.3	3416.7	3065.6	2702.8	2340.0	1968.1	1613.1	1268.5	1071.5	1040.4
27.5°	3909.0	3848.1	3550.1	3109.6	2691.1	2253.2	1816.5	1364.3	1008.0	872.0	838.3
30°	4208.3	4085.2	3679.7	3143.3	2634.1	2114.5	1600.2	1076.7	750.2	629.7	612.9
32.5°	4540.0	4356.0	3801.5	3140.7	2533.0	1900.7	1319.0	747.6	506.6	457.4	440.5
35°	5139.9	4827.7	3947.9	3097.9	2363.3	1646.8	931.6	487.2	375.7	345.9	342.1
37.5°	5973.0	5443.1	4144.8	3016.3	2144.3	1351.4	607.7	333.0	321.3	322.6	321.3
40°	6655.9	6129.8	4418.2	2893.2	1868.4	965.3	364.1	296.7	303.2	307.1	308.4
42.5°	7324.4	6689.5	4756.4	2739.0	1579.4	627.1	295.4	283.8	278.6	285.0	287.6
45°	7862.1	7178.0	5075.1	2558.9	1241.3	370.6	286.3	263.0	254.0	256.5	260.4
47.5°	8292.3	7566.7	5266.9	2349.0	907.0	279.9	278.6	244.9	231.9	229.3	228.0
50°	8697.8	7899.7	5390.0	2095.1	577.9	269.5	257.8	224.2	208.6	206.0	206.0
52.5°	8973.8	8117.4	5431.4	1794.5	344.6	263.0	243.6	207.3	186.6	190.5	193.1
55°	9243.3	8337.6	5345.9	1403.2	264.3	246.2	228.0	186.6	169.7	185.3	190.5
57.5°	9371.6	8370.0	5152.9	975.6	256.5	222.9	206.0	167.1	154.2	163.3	163.3
60°	9475.2	8348.0	4883.4	618.0	250.1	207.3	187.9	151.6	136.0	130.9	127.0
62.5°	9406.6	8259.9	4341.8	403.0	231.9	189.2	171.0	139.9	117.9	103.7	102.4
65°	9260.1	7948.9	3465.9	317.4	215.1	180.1	155.5	125.7	103.7	86.8	85.5
67.5°	8828.7	7192.3	2242.8	263.0	206.0	173.6	143.8	116.6	92.0	75.1	73.9
70°	7794.7	5809.8	688.0	235.8	213.8	167.1	141.2	106.2	81.6	66.1	63.5
72.5°	6163.5	3881.8	255.2	195.6	184.0	160.7	137.3	95.9	70.0	55.7	53.1
75°	3969.9	1268.5	216.4	151.6	156.8	152.9	127.0	88.1	59.6	45.3	44.1
77.5°	1124.6	265.6	196.9	111.4	138.6	147.7	111.4	73.9	53.1	38.9	37.6
80°	235.8	189.2	180.1	79.0	103.7	95.9	75.1	57.0	50.5	33.7	33.7
82.5°	154.2	150.3	154.2	54.4	68.7	70.0	59.6	49.2	44.1	31.1	31.1
85°	108.8	137.3	73.9	38.9	32.4	29.8	35.0	42.8	38.9	25.9	25.9
87.5°	37.6	22.0	15.5	15.5	14.3	14.3	16.8	19.4	20.7	20.7	19.4
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)