

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: P510320

Luminaire Tested: **VERD-M-CA4-250-730-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510320  
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-CA4-250-730-U-T4-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 3000K, 1130mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

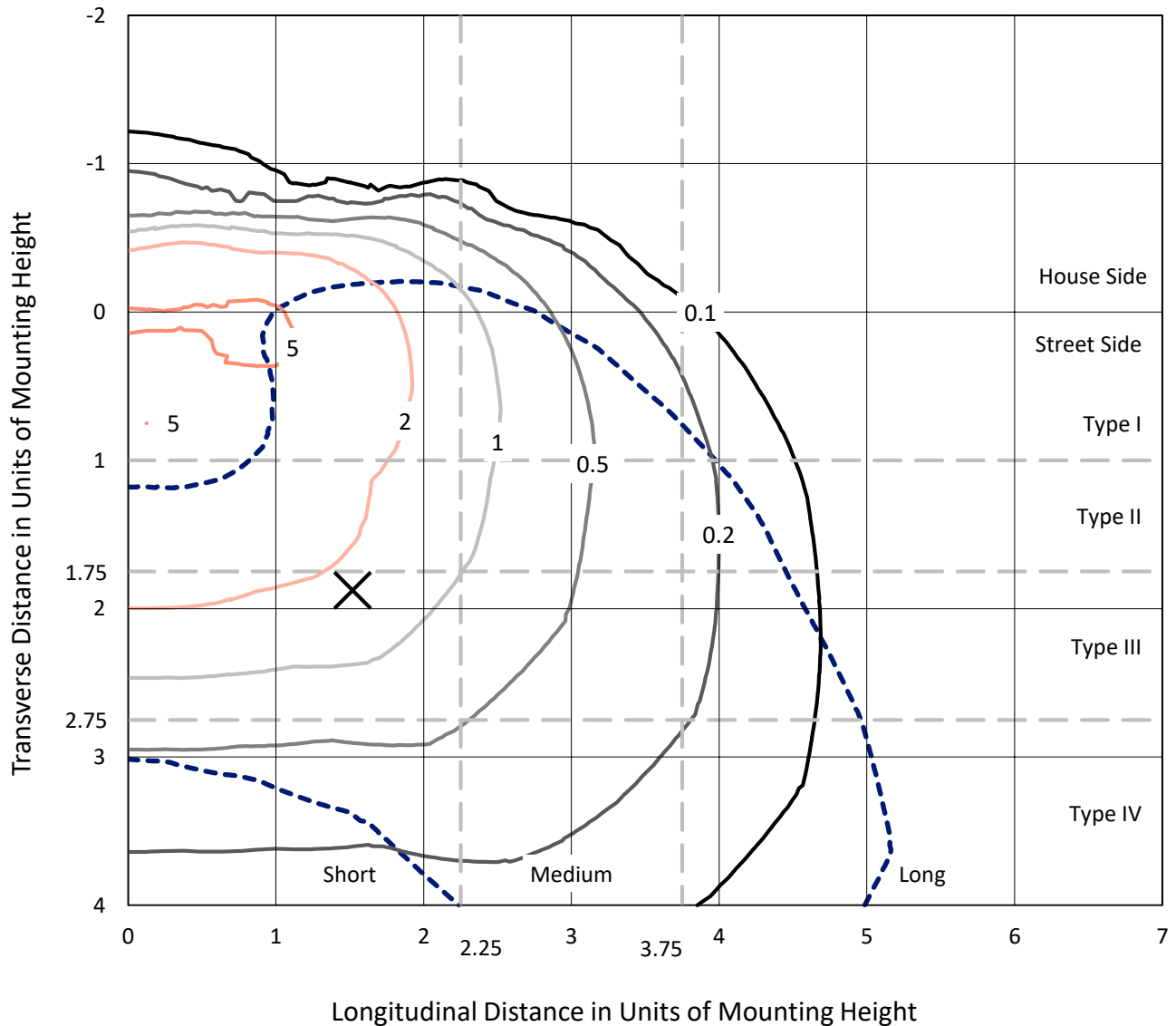
Lumens per Lamp: N/A  
Luminaire Lumens: 30522 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): 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

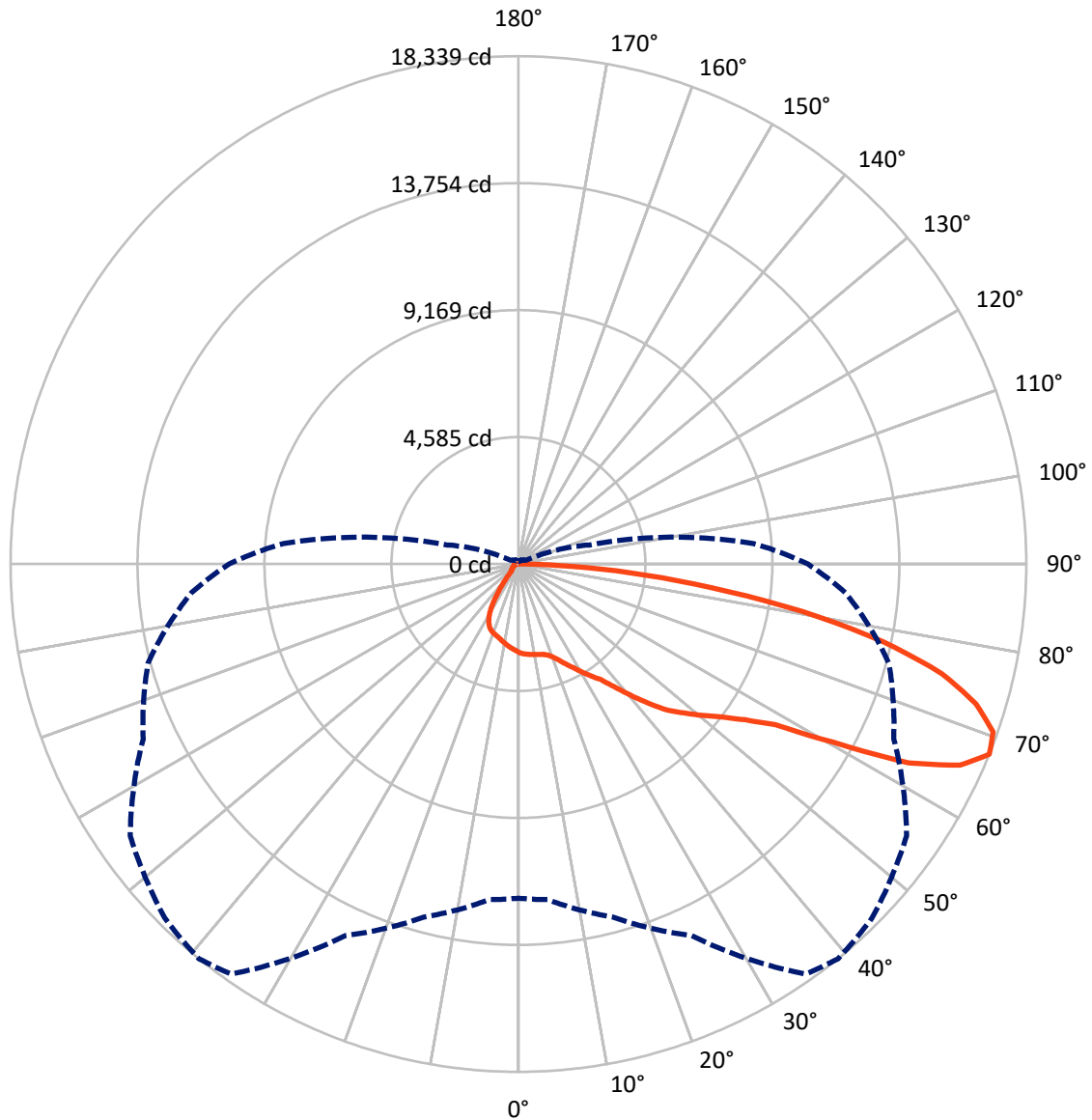
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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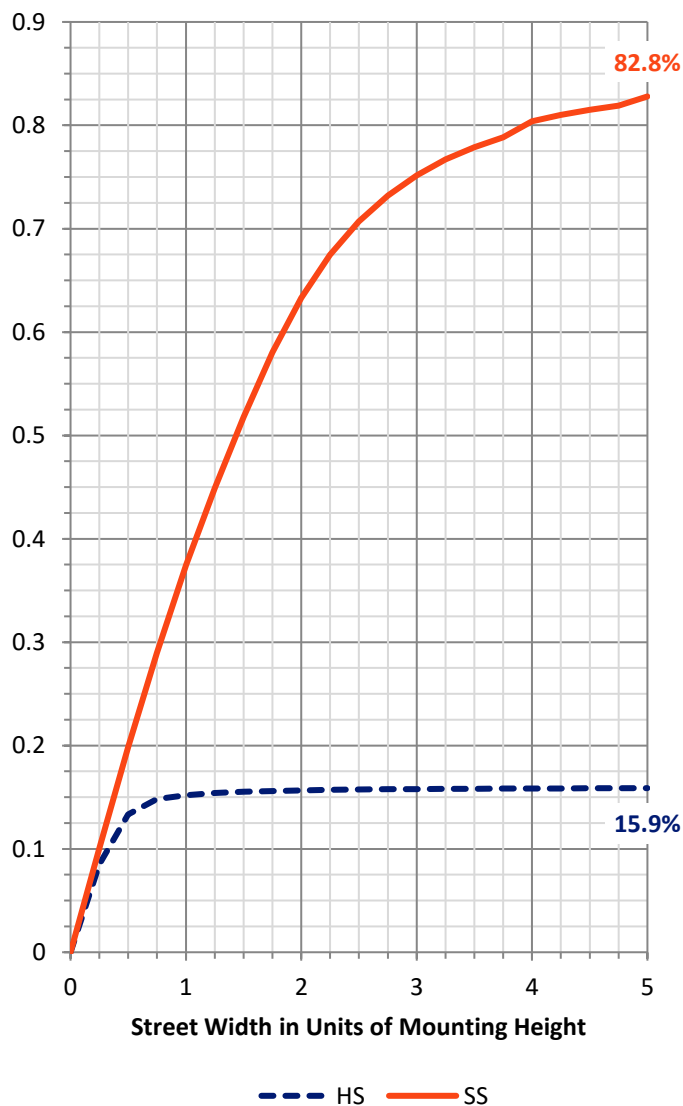
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4901.1	0.0	4901.1
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	25620.9	0.0	25620.9
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	30522.0	0.0	30522.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.7	1.0
10°-20°	898.0	2.9
20°-30°	1591.0	5.2
30°-40°	2548.3	8.3
40°-50°	4087.9	13.4
50°-60°	5975.3	19.6
60°-70°	7962.4	26.1
70°-80°	5975.1	19.6
80°-90°	1182.2	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°	30522.0	100.0
0°-180°	30522.0	100.0

**Coefficient of Utilization**



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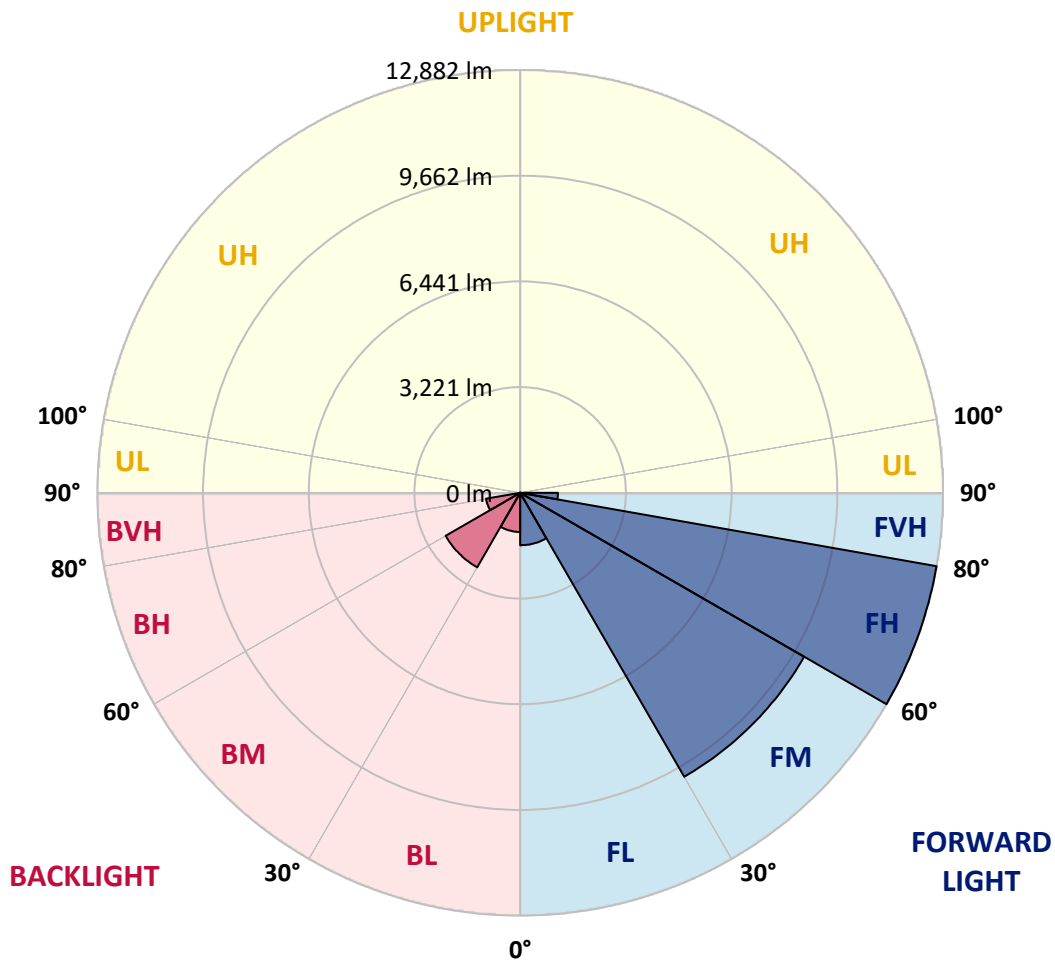
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.3	5.2			
FM (30°-60°)	9990.1	32.7			
FH (60°-80°)	12882.3	42.2			G5
FVH (80°-90°)	1151.2	3.8			G5
BL (0°-30°)	1193.5	3.9	B3/2500		
BM (30°-60°)	2621.4	8.6	B3/5000		
BH (60°-80°)	1055.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	31.0	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°	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0
2.5°	3199.0	3242.0	3242.0	3229.7	3237.4	3243.5	3197.5	3209.8	3205.2	3203.6	3212.8
5°	3223.6	3271.1	3268.1	3252.7	3258.9	3271.1	3228.2	3246.6	3240.5	3225.1	3228.2
7.5°	3223.6	3263.5	3272.7	3255.8	3284.9	3300.3	3254.3	3271.1	3278.8	3268.1	3257.3
10°	3211.3	3246.6	3258.9	3255.8	3294.1	3318.7	3274.2	3321.7	3327.9	3327.9	3311.0
12.5°	3206.7	3246.6	3263.5	3277.3	3321.7	3347.8	3321.7	3367.7	3398.4	3396.9	3386.1
15°	3209.8	3254.3	3280.3	3303.3	3350.9	3383.1	3372.3	3442.9	3479.7	3490.4	3490.4
17.5°	3286.5	3340.1	3352.4	3376.9	3409.1	3458.2	3444.4	3534.9	3593.2	3611.6	3637.7
20°	3501.2	3542.6	3557.9	3545.6	3559.4	3590.1	3562.5	3649.9	3737.3	3786.4	3829.3
22.5°	3775.7	3806.3	3792.5	3780.3	3772.6	3780.3	3746.5	3804.8	3903.0	3973.5	4047.1
25°	3984.2	4051.7	4041.0	4007.2	3996.5	4005.7	3962.8	4034.8	4125.3	4198.9	4309.4
27.5°	4237.3	4278.7	4249.5	4237.3	4244.9	4243.4	4217.3	4286.4	4369.2	4461.2	4623.7
30°	4511.8	4547.1	4517.9	4505.7	4519.5	4528.7	4499.5	4620.7	4708.1	4807.8	5017.9
32.5°	4962.7	5047.0	4967.3	4807.8	4810.8	4824.6	4827.7	4990.3	5149.8	5228.0	5505.5
35°	5605.2	5672.7	5566.9	5373.7	5132.9	5123.7	5148.2	5390.5	5711.0	6066.8	6392.0
37.5°	6204.9	6303.0	6207.9	5982.5	5689.6	5619.0	5491.7	5780.1	6284.6	7049.9	7454.7
40°	6924.1	6997.7	6809.1	6612.8	6319.9	6220.2	6016.2	6200.3	6891.9	8075.8	8354.9
42.5°	7502.3	7546.7	7390.3	7184.8	6930.2	6855.1	6645.0	6661.9	7540.6	8974.5	9153.9
45°	8037.5	8085.0	7956.2	7781.4	7620.4	7529.9	7376.5	7459.3	8301.3	9922.3	9813.4
47.5°	8443.9	8491.4	8388.7	8264.5	8097.3	8036.0	8039.0	8336.5	9232.1	10679.8	10405.3
50°	9109.5	9091.1	8822.7	8687.7	8557.4	8589.6	8623.3	9046.6	10170.7	11330.1	10952.8
52.5°	10270.4	10179.9	9626.3	9273.6	9112.5	9167.7	9222.9	9785.8	11236.5	11923.6	11373.0
55°	11583.1	11491.1	11020.3	10265.8	9839.4	9928.4	9880.9	10517.3	12132.1	12494.1	11719.6
57.5°	12558.5	12710.3	12530.9	12119.9	11052.5	10936.0	10830.1	11256.5	12856.0	13064.6	12052.4
60°	13406.5	13618.2	13938.7	13826.8	13372.8	13069.2	12098.4	12119.9	13552.2	13460.2	12184.3
62.5°	14234.7	14358.9	14907.9	15029.1	15591.9	15809.7	14823.6	13236.3	14225.5	13734.7	12273.2
65°	13406.5	13566.0	14521.5	15403.3	17222.1	17513.5	17166.9	15257.6	14720.8	13897.3	12170.5
67.5°	12067.7	12164.4	13196.4	14800.6	18074.8	18338.5	18068.6	17113.2	14952.4	13848.2	11851.5
70°	10317.9	10469.7	11483.4	13633.5	18044.1	18185.2	17950.5	17337.1	14865.0	13566.0	11046.4
72.5°	8532.8	8618.7	9477.5	11623.0	17162.3	17280.4	17156.2	16993.6	14570.5	12779.3	9499.0
75°	6413.4	6431.8	7312.1	9178.5	15174.8	15791.3	15943.1	16401.6	13443.4	10954.4	7025.3
77.5°	4300.2	4482.7	5327.7	7014.6	12457.3	13443.4	14162.6	14496.9	11231.9	8175.5	3735.8
80°	2308.0	2354.0	3265.0	4978.0	9466.8	10409.9	11092.4	11098.5	7855.0	4050.2	834.3
82.5°	1068.9	1024.4	1644.0	3150.0	6557.6	6977.8	7434.8	6227.9	3145.4	691.6	213.2
85°	473.9	499.9	743.8	1535.1	3639.2	4060.9	4002.6	2757.4	552.1	187.1	130.4
87.5°	176.4	185.6	288.3	619.6	1298.9	1417.0	1274.4	530.6	72.1	65.9	39.9
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°	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0	3196.0
2.5°	3202.1	3202.1	3199.0	3157.6	3148.4	3128.5	3111.6	3123.9	3110.1	3119.3	3110.1
5°	3215.9	3208.2	3189.8	3140.8	3117.8	3073.3	3039.6	3047.2	3028.8	3028.8	3027.3
7.5°	3248.1	3232.8	3200.6	3122.4	3079.4	3015.0	2962.9	2946.0	2927.6	2906.1	2903.1
10°	3300.3	3278.8	3235.9	3128.5	3045.7	2959.8	2869.3	2834.1	2788.0	2754.3	2748.2
12.5°	3372.3	3340.1	3281.9	3151.5	3042.6	2906.1	2785.0	2716.0	2660.8	2611.7	2601.0
15°	3476.6	3444.4	3375.4	3197.5	3044.2	2855.5	2696.0	2581.0	2485.9	2439.9	2441.5
17.5°	3628.4	3605.4	3499.6	3294.1	3073.3	2829.5	2622.4	2439.9	2292.7	2216.0	2205.3
20°	3823.2	3807.9	3679.1	3421.4	3140.8	2834.1	2542.7	2289.6	2073.4	1906.2	1869.4
22.5°	4050.2	4027.2	3869.2	3531.8	3192.9	2821.8	2455.3	2124.0	1798.9	1581.1	1538.2
25°	4303.2	4291.0	4044.0	3628.4	3199.0	2769.6	2329.5	1909.3	1501.4	1268.3	1231.5
27.5°	4626.8	4554.7	4202.0	3680.6	3185.2	2666.9	2150.1	1614.9	1193.1	1032.1	992.2
30°	4981.1	4835.4	4355.4	3720.5	3117.8	2502.8	1894.0	1274.4	887.9	745.3	725.4
32.5°	5373.7	5155.9	4499.5	3717.4	2998.1	2249.8	1561.2	884.9	599.6	541.4	521.4
35°	6083.7	5714.1	4672.8	3666.8	2797.2	1949.2	1102.6	576.6	444.7	409.5	404.9
37.5°	7069.8	6442.6	4905.9	3570.2	2538.1	1599.5	719.2	394.1	380.3	381.9	380.3
40°	7878.0	7255.4	5229.5	3424.5	2211.4	1142.5	430.9	351.2	358.9	363.5	365.0
42.5°	8669.3	7917.9	5629.8	3242.0	1869.4	742.3	349.7	335.9	329.7	337.4	340.5
45°	9305.8	8496.0	6007.0	3028.8	1469.2	438.6	338.9	311.3	300.6	303.6	308.2
47.5°	9814.9	8956.1	6234.0	2780.4	1073.5	331.3	329.7	289.8	274.5	271.4	269.9
50°	10294.9	9350.2	6379.7	2479.8	684.0	319.0	305.2	265.3	246.9	243.8	243.8
52.5°	10621.6	9607.9	6428.8	2124.0	407.9	311.3	288.3	245.4	220.8	225.4	228.5
55°	10940.6	9868.6	6327.5	1660.9	312.9	291.4	269.9	220.8	200.9	219.3	225.4
57.5°	11092.4	9906.9	6099.0	1154.8	303.6	263.8	243.8	197.8	182.5	193.2	193.2
60°	11215.1	9880.9	5780.1	731.5	296.0	245.4	222.4	179.4	161.0	154.9	150.3
62.5°	11133.8	9776.6	5139.0	476.9	274.5	223.9	202.4	165.6	139.6	122.7	121.2
65°	10960.5	9408.5	4102.3	375.7	254.6	213.2	184.0	148.8	122.7	102.7	101.2
67.5°	10449.8	8512.9	2654.6	311.3	243.8	205.5	170.2	138.0	108.9	88.9	87.4
70°	9226.0	6876.6	814.3	279.1	253.0	197.8	167.2	125.8	96.6	78.2	75.1
72.5°	7295.2	4594.6	302.1	231.6	217.8	190.2	162.6	113.5	82.8	65.9	62.9
75°	4698.9	1501.4	256.1	179.4	185.6	181.0	150.3	104.3	70.5	53.7	52.1
77.5°	1331.1	314.4	233.1	131.9	164.1	174.8	131.9	87.4	62.9	46.0	44.5
80°	279.1	223.9	213.2	93.5	122.7	113.5	88.9	67.5	59.8	39.9	39.9
82.5°	182.5	177.9	182.5	64.4	81.3	82.8	70.5	58.3	52.1	36.8	36.8
85°	128.8	162.6	87.4	46.0	38.3	35.3	41.4	50.6	46.0	30.7	30.7
87.5°	44.5	26.1	18.4	18.4	16.9	16.9	19.9	23.0	24.5	24.5	23.0
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)