

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: P510312

Luminaire Tested: **VERD-M-CA4-250-727-U-T4-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510312  
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-CA4-250-727-U-T4-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 2700K, 1130mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26322 lumens  
Efficiency: N/A  
Efficacy: 104.6 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

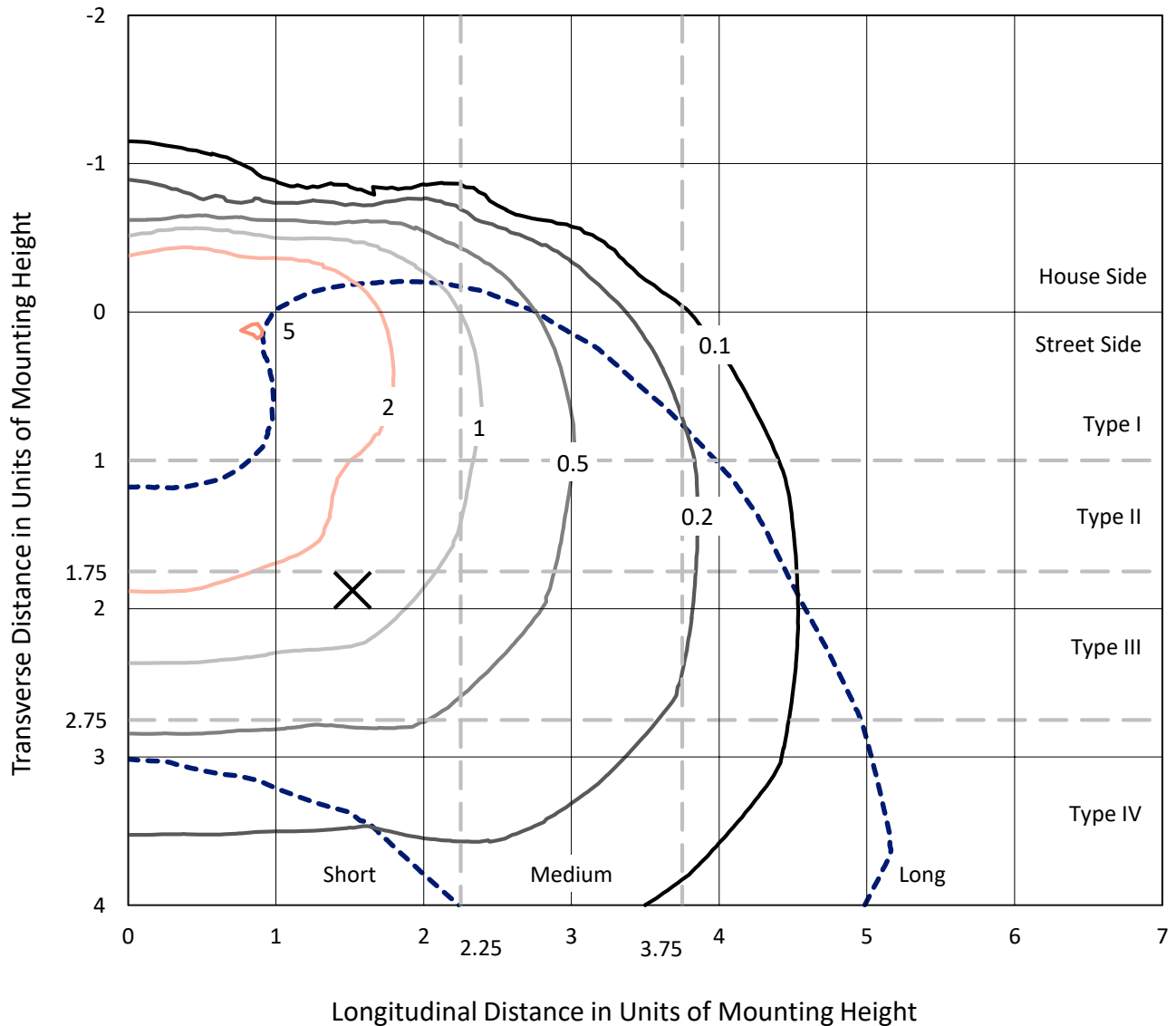
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

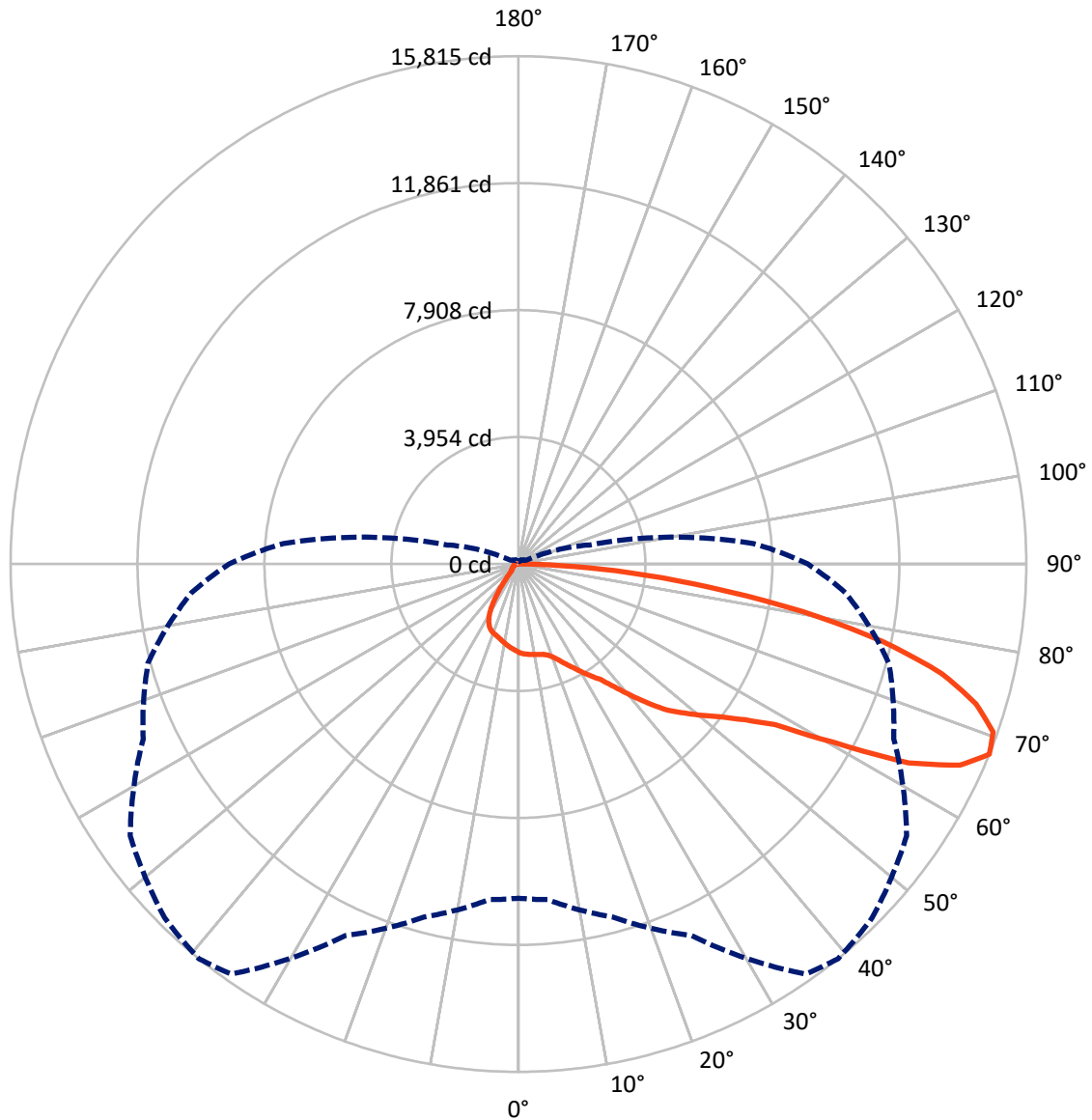
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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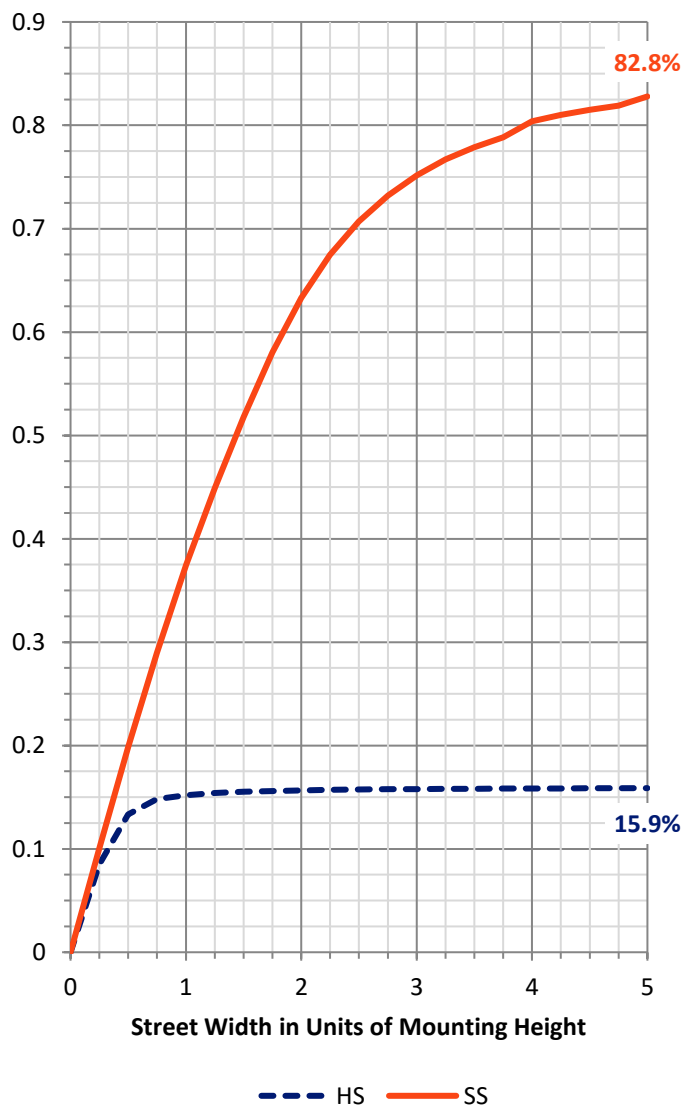
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4226.7	0.0	4226.7
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	22095.4	0.0	22095.4
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	26322.0	0.0	26322.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.2	1.0
10°-20°	774.4	2.9
20°-30°	1372.1	5.2
30°-40°	2197.6	8.3
40°-50°	3525.4	13.4
50°-60°	5153.1	19.6
60°-70°	6866.8	26.1
70°-80°	5152.9	19.6
80°-90°	1019.5	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°	26322.0	100.0
0°-180°	26322.0	100.0

**Coefficient of Utilization**



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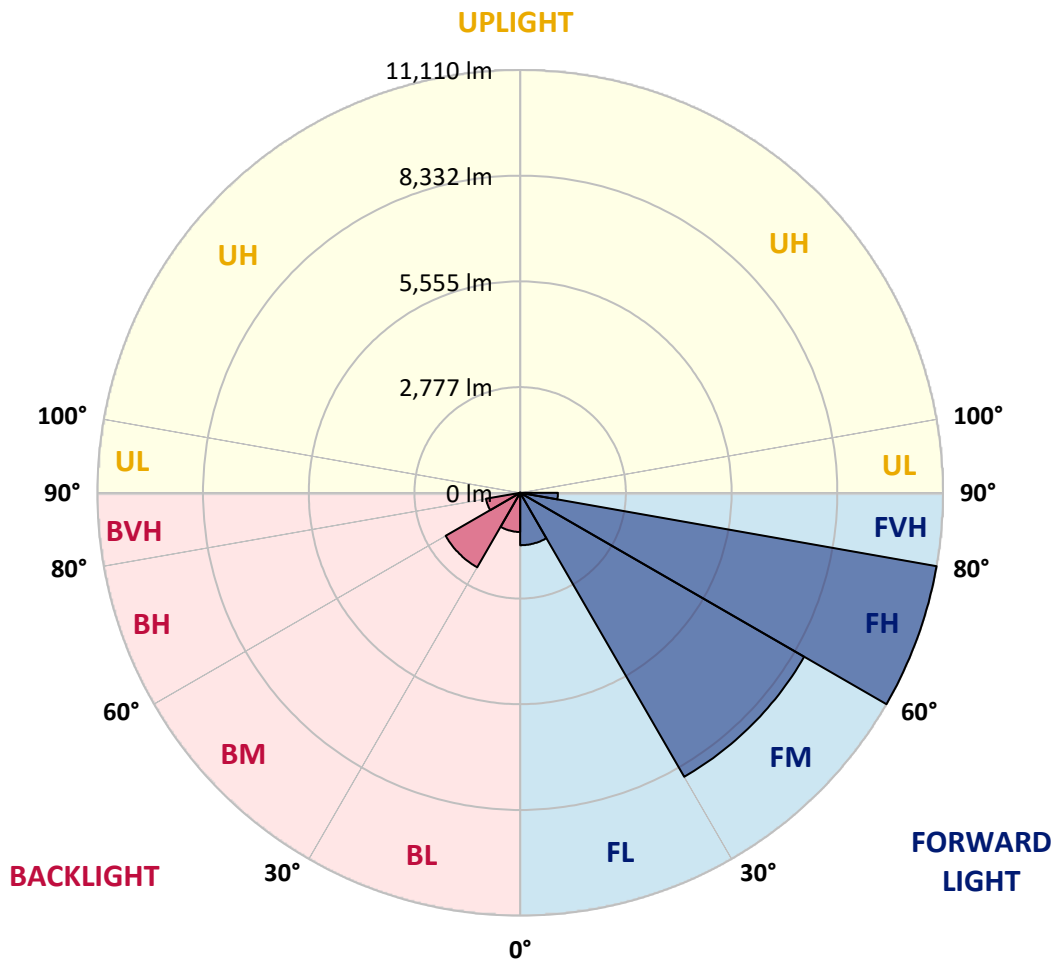
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1377.5	5.2			
FM	(30°-60°)	8615.4	32.7			
FH	(60°-80°)	11109.6	42.2			G4/12000
FVH	(80°-90°)	992.8	3.8			G5
BL	(0°-30°)	1029.2	3.9	B3/2500		
BM	(30°-60°)	2260.7	8.6	B2/2500		
BH	(60°-80°)	910.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	26.7	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°	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2
2.5°	2758.8	2795.9	2795.9	2785.3	2791.9	2797.2	2757.5	2768.1	2764.1	2762.8	2770.7
5°	2780.0	2821.0	2818.4	2805.1	2810.4	2821.0	2784.0	2799.8	2794.5	2781.3	2784.0
7.5°	2780.0	2814.4	2822.3	2807.8	2832.9	2846.1	2806.5	2821.0	2827.6	2818.4	2809.1
10°	2769.4	2799.8	2810.4	2807.8	2840.8	2862.0	2823.6	2864.6	2869.9	2869.9	2855.4
12.5°	2765.5	2799.8	2814.4	2826.3	2864.6	2887.1	2864.6	2904.3	2930.8	2929.4	2920.2
15°	2768.1	2806.5	2828.9	2848.8	2889.8	2917.5	2908.3	2969.1	3000.9	3010.1	3010.1
17.5°	2834.2	2880.5	2891.1	2912.3	2940.0	2982.4	2970.4	3048.5	3098.7	3114.6	3137.1
20°	3019.4	3055.1	3068.3	3057.7	3069.6	3096.1	3072.3	3147.7	3223.1	3265.4	3302.4
22.5°	3256.1	3282.6	3270.7	3260.1	3253.5	3260.1	3231.0	3281.2	3365.9	3426.7	3490.2
25°	3436.0	3494.2	3484.9	3455.8	3446.6	3454.5	3417.5	3479.6	3557.7	3621.1	3716.4
27.5°	3654.2	3689.9	3664.8	3654.2	3660.8	3659.5	3637.0	3696.5	3767.9	3847.3	3987.5
30°	3890.9	3921.4	3896.2	3885.7	3897.6	3905.5	3880.4	3984.8	4060.2	4146.2	4327.4
32.5°	4279.8	4352.5	4283.7	4146.2	4148.8	4160.7	4163.4	4303.6	4441.1	4508.6	4748.0
35°	4833.9	4892.1	4800.9	4634.2	4426.6	4418.6	4439.8	4648.8	4925.2	5232.0	5512.4
37.5°	5351.0	5435.7	5353.7	5159.3	4906.7	4845.8	4736.1	4984.7	5419.8	6079.8	6428.9
40°	5971.3	6034.8	5872.1	5702.8	5450.2	5364.3	5188.4	5347.1	5943.5	6964.5	7205.3
42.5°	6469.9	6508.3	6373.4	6196.1	5976.6	5911.8	5730.6	5745.2	6503.0	7739.6	7894.3
45°	6931.5	6972.5	6861.4	6710.6	6571.8	6493.7	6361.5	6432.9	7159.0	8556.9	8463.0
47.5°	7282.0	7323.0	7234.3	7127.2	6983.1	6930.2	6932.8	7189.4	7961.8	9210.2	8973.5
50°	7855.9	7840.1	7608.6	7492.2	7379.8	7407.6	7436.7	7801.7	8771.2	9771.0	9445.7
52.5°	8857.1	8779.1	8301.6	7997.5	7858.6	7906.2	7953.8	8439.2	9690.3	10282.8	9808.0
55°	9989.2	9909.9	9503.8	8853.2	8485.5	8562.2	8521.2	9070.0	10462.7	10774.8	10106.9
57.5°	10830.4	10961.3	10806.6	10452.1	9531.6	9431.1	9339.8	9707.5	11086.9	11266.8	10393.9
60°	11561.7	11744.2	12020.7	11924.1	11532.6	11270.8	10433.6	10452.1	11687.4	11608.0	10507.7
62.5°	12275.9	12383.0	12856.5	12961.0	13446.4	13634.2	12783.8	11414.9	12268.0	11844.8	10584.4
65°	11561.7	11699.3	12523.2	13283.7	14852.2	15103.5	14804.6	13158.1	12695.2	11984.9	10495.8
67.5°	10407.1	10490.5	11380.5	12763.9	15587.6	15815.1	15582.3	14758.3	12894.9	11942.6	10220.7
70°	8898.1	9029.0	9903.3	11757.5	15561.1	15682.8	15480.4	14951.4	12819.5	11699.3	9526.3
72.5°	7358.7	7432.7	8173.4	10023.6	14800.7	14902.5	14795.4	14655.2	12565.5	11020.8	8191.9
75°	5530.9	5546.8	6305.9	7915.5	13086.6	13618.3	13749.2	14144.7	11593.5	9447.0	6058.6
77.5°	3708.4	3865.8	4594.5	6049.3	10743.1	11593.5	12213.7	12502.1	9686.4	7050.5	3221.7
80°	1990.4	2030.1	2815.7	4293.0	8164.1	8977.5	9566.0	9571.3	6774.1	3492.9	719.5
82.5°	921.8	883.5	1417.8	2716.5	5655.2	6017.6	6411.7	5370.9	2712.6	596.5	183.8
85°	408.7	431.2	641.4	1323.9	3138.4	3502.1	3451.9	2377.9	476.1	161.4	112.4
87.5°	152.1	160.0	248.6	534.3	1120.2	1222.0	1099.0	457.6	62.2	56.9	34.4
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°	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2	2756.2
2.5°	2761.5	2761.5	2758.8	2723.1	2715.2	2698.0	2683.5	2694.0	2682.1	2690.1	2682.1
5°	2773.4	2766.8	2750.9	2708.6	2688.7	2650.4	2621.3	2627.9	2612.0	2612.0	2610.7
7.5°	2801.2	2787.9	2760.2	2692.7	2655.7	2600.1	2555.2	2540.6	2524.7	2506.2	2503.6
10°	2846.1	2827.6	2790.6	2698.0	2626.6	2552.5	2474.5	2444.1	2404.4	2375.3	2370.0
12.5°	2908.3	2880.5	2830.3	2717.8	2623.9	2506.2	2401.8	2342.2	2294.6	2252.3	2243.0
15°	2998.2	2970.4	2910.9	2757.5	2625.3	2462.6	2325.0	2225.9	2143.9	2104.2	2105.5
17.5°	3129.2	3109.3	3018.1	2840.8	2650.4	2440.1	2261.6	2104.2	1977.2	1911.1	1901.8
20°	3297.1	3283.9	3172.8	2950.6	2708.6	2444.1	2192.8	1974.6	1788.1	1643.9	1612.2
22.5°	3492.9	3473.0	3336.8	3045.8	2753.5	2433.5	2117.4	1831.7	1551.4	1363.5	1326.5
25°	3711.1	3700.5	3487.6	3129.2	2758.8	2388.5	2009.0	1646.6	1294.8	1093.7	1062.0
27.5°	3990.1	3928.0	3623.8	3174.1	2746.9	2299.9	1854.2	1392.6	1028.9	890.1	855.7
30°	4295.6	4170.0	3756.0	3208.5	2688.7	2158.4	1633.3	1099.0	765.8	642.8	625.6
32.5°	4634.2	4446.4	3880.4	3205.9	2585.6	1940.2	1346.4	763.1	517.1	466.9	449.7
35°	5246.6	4927.8	4029.8	3162.2	2412.3	1681.0	950.9	497.3	383.5	353.1	349.2
37.5°	6097.0	5556.0	4230.8	3078.9	2188.8	1379.4	620.3	339.9	328.0	329.3	328.0
40°	6793.9	6257.0	4509.9	2953.3	1907.1	985.3	371.6	302.9	309.5	313.4	314.8
42.5°	7476.4	6828.3	4855.1	2795.9	1612.2	640.1	301.5	289.6	284.3	291.0	293.6
45°	8025.2	7326.9	5180.4	2612.0	1267.0	378.2	292.3	268.5	259.2	261.9	265.8
47.5°	8464.3	7723.7	5376.2	2397.8	925.8	285.7	284.3	250.0	236.7	234.1	232.8
50°	8878.3	8063.6	5501.8	2138.6	589.9	275.1	263.2	228.8	212.9	210.3	210.3
52.5°	9160.0	8285.8	5544.1	1831.7	351.8	268.5	248.6	211.6	190.4	194.4	197.1
55°	9435.1	8510.6	5456.8	1432.3	269.8	251.3	232.8	190.4	173.3	189.1	194.4
57.5°	9566.0	8543.7	5259.8	995.9	261.9	227.5	210.3	170.6	157.4	166.6	166.6
60°	9671.8	8521.2	4984.7	630.9	255.3	211.6	191.8	154.7	138.9	133.6	129.6
62.5°	9601.7	8431.3	4431.9	411.3	236.7	193.1	174.6	142.8	120.4	105.8	104.5
65°	9452.3	8113.8	3537.8	324.0	219.5	183.8	158.7	128.3	105.8	88.6	87.3
67.5°	9011.9	7341.5	2289.3	268.5	210.3	177.2	146.8	119.0	93.9	76.7	75.4
70°	7956.5	5930.3	702.3	240.7	218.2	170.6	144.2	108.4	83.3	67.5	64.8
72.5°	6291.4	3962.4	260.5	199.7	187.8	164.0	140.2	97.9	71.4	56.9	54.2
75°	4052.3	1294.8	220.9	154.7	160.0	156.1	129.6	89.9	60.8	46.3	45.0
77.5°	1148.0	271.1	201.0	113.7	141.5	150.8	113.7	75.4	54.2	39.7	38.4
80°	240.7	193.1	183.8	80.7	105.8	97.9	76.7	58.2	51.6	34.4	34.4
82.5°	157.4	153.4	157.4	55.5	70.1	71.4	60.8	50.3	45.0	31.7	31.7
85°	111.1	140.2	75.4	39.7	33.1	30.4	35.7	43.6	39.7	26.5	26.5
87.5°	38.4	22.5	15.9	15.9	14.5	14.5	17.2	19.8	21.2	21.2	19.8
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)