

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: P510342

Luminaire Tested: **VERD-M-CA4-250-760-U-T3-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA4-250-760-U-T3-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 70 CRI, 5700K, 1130mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

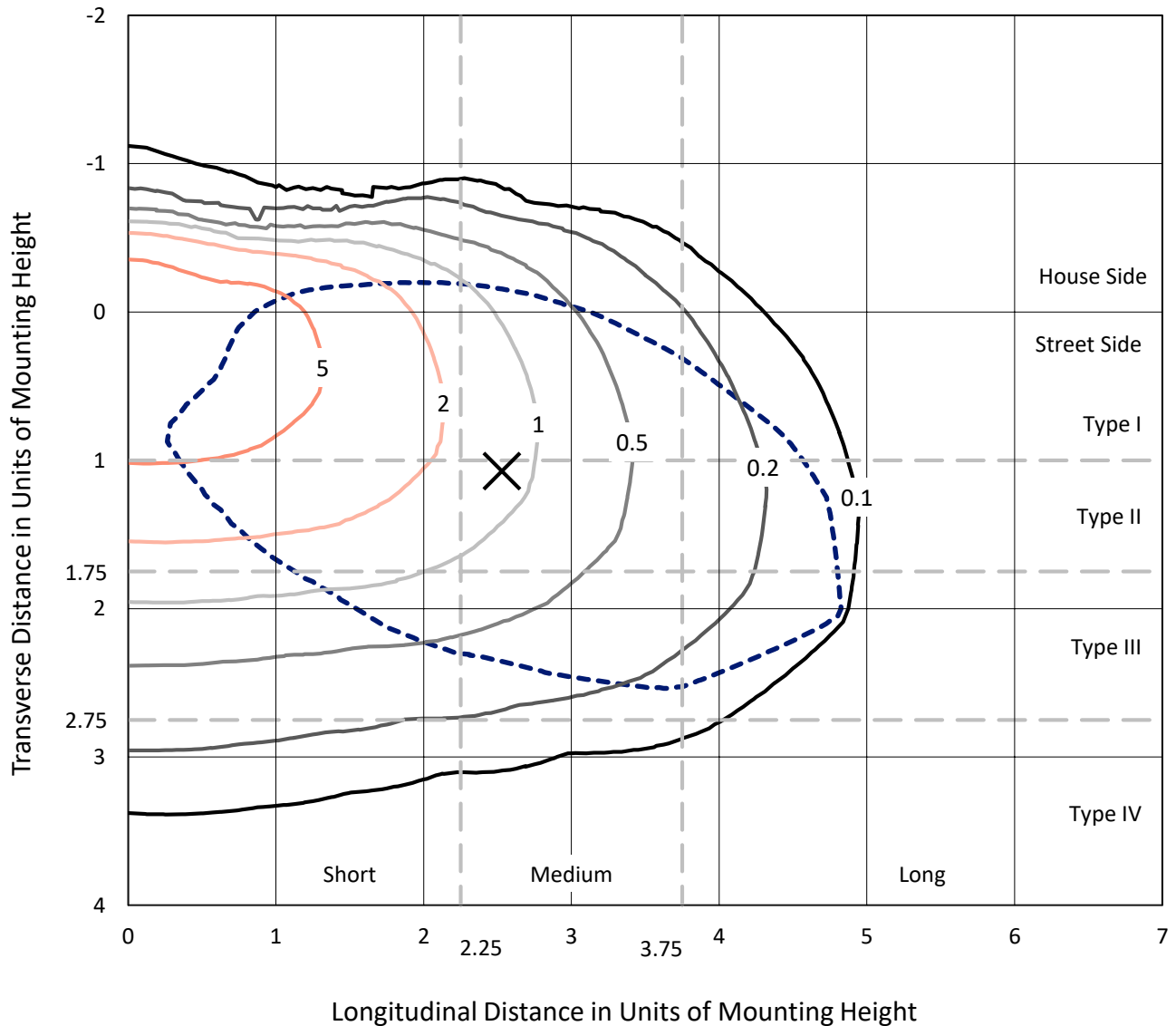
Lumens per Lamp: N/A  
Luminaire Lumens: 32176 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 251.7  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P510342  
 CATALOG NUMBER: VERD-M-CA4-250-760-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

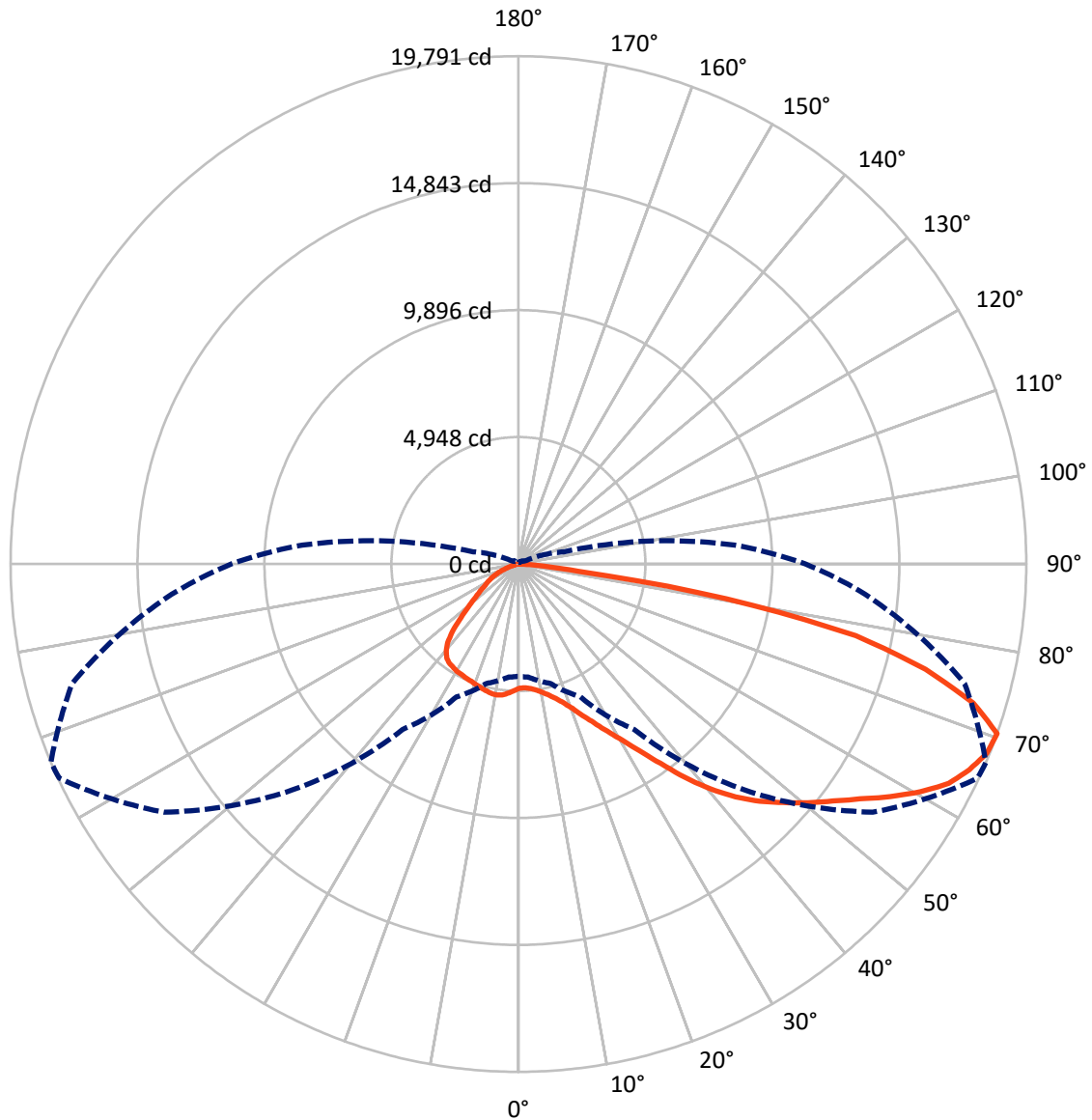
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P510342  
CATALOG NUMBER: VERD-M-CA4-250-760-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P510342

CATALOG NUMBER: VERD-M-CA4-250-760-U-T3-HSS

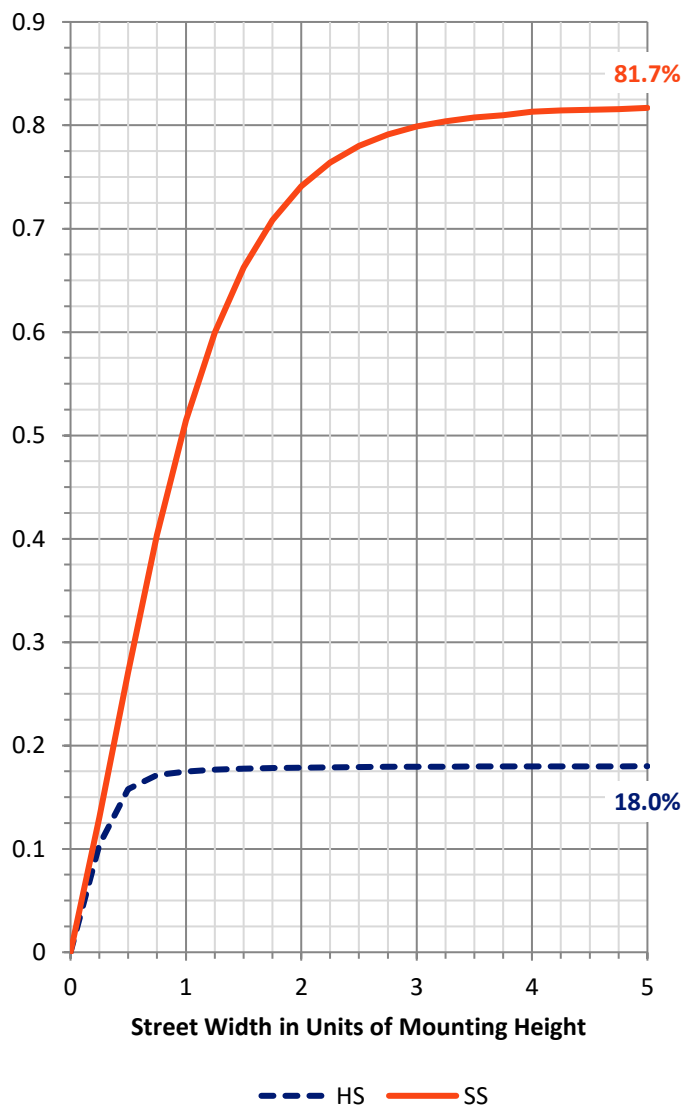
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5862.7	0.0	5862.7
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	26313.3	0.0	26313.3
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	32176.0	0.0	32176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	482.2	1.5
10°-20°	1504.4	4.7
20°-30°	2610.2	8.1
30°-40°	3876.7	12.0
40°-50°	5318.6	16.5
50°-60°	6531.5	20.3
60°-70°	7002.5	21.8
70°-80°	4445.3	13.8
80°-90°	404.5	1.3
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°	32176.0	100.0
0°-180°	32176.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P510342

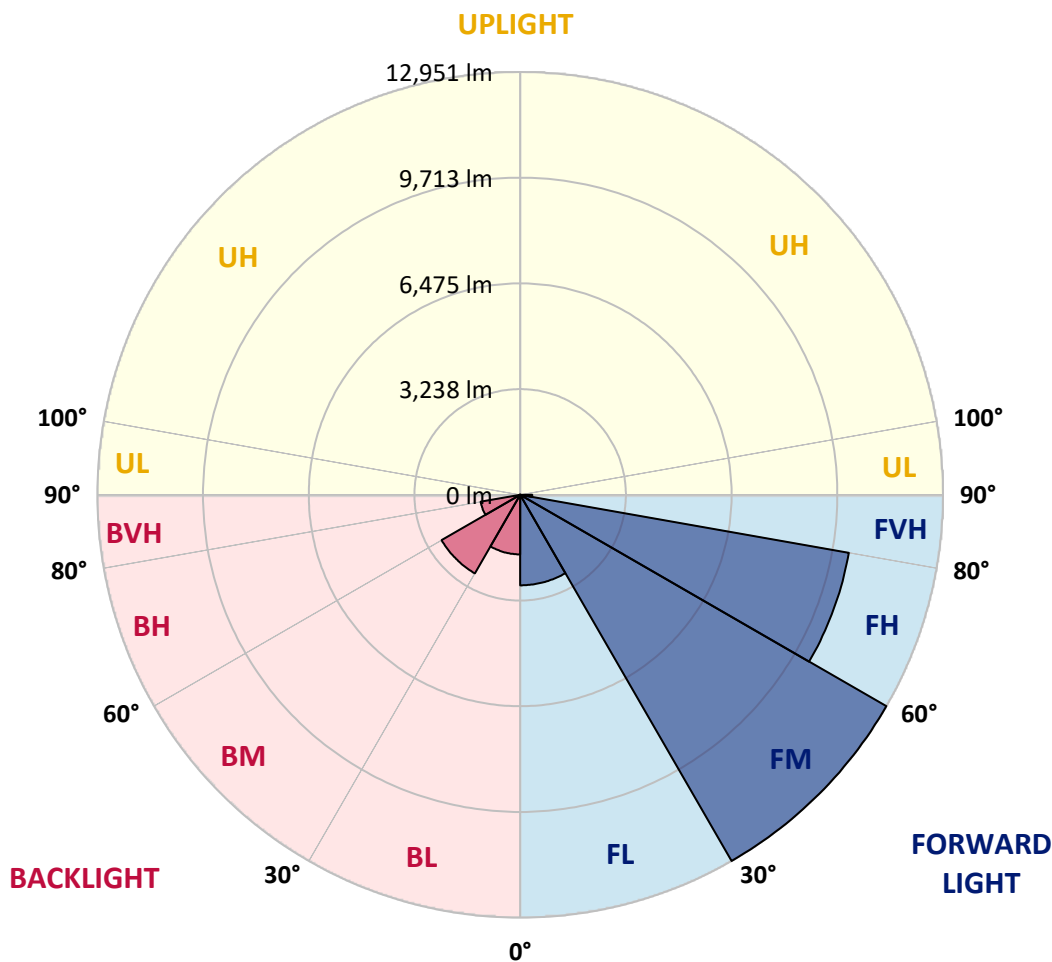
CATALOG NUMBER: VERD-M-CA4-250-760-U-T3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2772.2	8.6			
FM	(30°-60°)	12950.5	40.2			
FH	(60°-80°)	10221.5	31.8			G4/12000
FVH	(80°-90°)	369.0	1.1			G3/500
BL	(0°-30°)	1824.6	5.7	B3/2500		
BM	(30°-60°)	2776.3	8.6	B3/5000		
BH	(60°-80°)	1226.3	3.8	B3/2500		G3/2500
BVH	(80°-90°)	35.6	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-G4**

Type III Medium





REPORT NUMBER: P510342

CATALOG NUMBER: VERD-M-CA4-250-760-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0
2.5°	4796.4	4841.6	4815.1	4812.0	4843.1	4813.5	4833.8	4829.1	4826.0	4830.7	4863.3
5°	4922.5	4975.4	4939.6	4928.7	4945.9	4892.9	4888.3	4877.4	4874.2	4875.8	4922.5
7.5°	5098.4	5160.7	5146.7	5118.7	5109.3	5022.1	5006.6	4967.6	4955.2	4958.3	5005.0
10°	5375.5	5437.8	5409.8	5347.5	5308.6	5208.9	5152.9	5103.1	5078.2	5081.3	5131.1
12.5°	5730.5	5789.6	5742.9	5629.3	5607.5	5447.1	5360.0	5254.1	5237.0	5212.1	5265.0
15°	6065.2	6116.5	6094.7	5988.9	5929.7	5739.8	5579.5	5448.7	5433.1	5409.8	5408.2
17.5°	6435.7	6487.1	6446.6	6368.7	6290.9	6065.2	5892.4	5724.2	5683.8	5663.5	5590.4
20°	6831.1	6912.1	6904.3	6840.4	6747.0	6482.4	6238.0	6048.0	6004.5	5967.1	5813.0
22.5°	7239.0	7344.8	7321.5	7287.2	7248.3	6951.0	6666.1	6446.6	6413.9	6334.5	6091.6
25°	7690.4	7763.6	7746.5	7763.6	7737.1	7474.0	7162.7	6894.9	6851.3	6776.6	6404.5
27.5°	8127.9	8204.2	8233.7	8197.9	8215.1	8026.7	7657.7	7418.0	7376.0	7239.0	6781.3
30°	8523.3	8618.3	8660.3	8675.9	8733.5	8538.9	8266.4	7975.3	7961.3	7821.2	7277.9
32.5°	8839.3	8945.2	9047.9	9114.9	9206.7	9121.1	8850.2	8674.3	8675.9	8549.8	8023.6
35°	9068.2	9189.6	9339.1	9516.5	9709.6	9673.8	9513.4	9516.5	9541.4	9583.5	8974.8
37.5°	9321.9	9420.0	9595.9	9843.4	10137.7	10212.4	10190.6	10438.1	10559.6	10634.3	9810.8
40°	9472.9	9572.6	9792.1	10125.2	10553.3	10732.4	10933.2	11367.5	11526.3	11448.5	10525.3
42.5°	9306.4	9395.1	9776.5	10352.5	10894.3	11300.6	11660.2	12295.4	12410.6	12156.8	11127.8
45°	9090.0	9205.2	9606.8	10414.8	11196.3	11857.9	12416.8	13103.3	13188.9	12829.3	11660.2
47.5°	8912.5	9013.7	9482.3	10347.8	11474.9	12429.2	13081.5	13866.1	13887.9	13444.3	12211.3
50°	8685.2	8808.2	9297.0	10265.3	11643.1	12935.2	13690.2	14577.6	14625.8	14081.0	12678.3
52.5°	8447.0	8566.9	9072.8	10129.9	11764.5	13355.5	14322.3	15334.2	15338.8	14755.1	13176.5
55°	8095.2	8222.9	8783.3	9933.7	11801.9	13634.2	14957.4	16106.3	16154.6	15438.5	13628.0
57.5°	7723.1	7832.1	8434.6	9628.6	11663.3	13897.3	15609.7	16964.1	17096.4	16209.1	14015.6
60°	7229.6	7338.6	7975.3	9228.5	11369.1	14193.1	16357.0	17997.8	18011.8	16833.3	14297.4
62.5°	6698.8	6793.7	7379.1	8601.1	10912.9	14306.7	16998.4	18824.4	18822.9	17389.1	14437.5
65°	6068.3	6107.2	6703.4	7830.5	10204.6	14140.1	17281.7	19369.3	19316.4	17789.2	14390.8
67.5°	5321.0	5363.1	5814.5	6873.1	9177.2	13489.4	17155.6	19632.4	19685.3	18145.7	14188.4
70°	4374.5	4424.3	4818.2	5711.8	7867.9	12451.0	16859.8	19746.1	19791.2	18002.5	13564.1
72.5°	3228.7	3295.7	3537.0	4251.5	5971.8	10461.5	15489.8	18502.2	18527.1	16806.9	12264.2
75°	2005.1	2128.1	2355.4	2825.5	3874.8	7337.1	13240.3	16540.7	16385.0	14991.7	10148.6
77.5°	801.7	822.0	935.6	1323.3	1889.9	3820.3	9597.5	13148.5	13445.8	11994.9	7259.2
80°	467.0	463.9	490.4	616.5	811.1	1306.1	3733.1	7376.0	8221.3	6588.2	3266.1
82.5°	376.7	362.7	362.7	395.4	389.2	549.5	1223.6	2154.6	2363.2	2097.0	929.4
85°	197.7	193.0	157.2	194.6	194.6	274.0	470.1	610.3	644.5	562.0	348.7
87.5°	49.8	49.8	49.8	60.7	48.3	57.6	79.4	96.5	99.6	81.0	51.4
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: P510342

CATALOG NUMBER: VERD-M-CA4-250-760-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0	4840.0
2.5°	4875.8	4889.8	4944.3	4936.5	4945.9	4945.9	4961.4	4978.5	5029.9	5000.3	4987.9
5°	4931.8	4959.9	5028.4	5053.3	5090.6	5095.3	5126.4	5137.3	5193.4	5162.2	5162.2
7.5°	5039.3	5072.0	5135.8	5145.1	5162.2	5132.7	5140.5	5106.2	5143.6	5106.2	5107.8
10°	5160.7	5182.5	5226.1	5163.8	5137.3	5067.3	5051.7	4967.6	4997.2	4949.0	4936.5
12.5°	5277.4	5269.7	5237.0	5126.4	5053.3	4938.1	4889.8	4776.2	4769.9	4706.1	4693.7
15°	5388.0	5333.5	5227.6	5056.4	4931.8	4771.5	4656.3	4531.8	4488.2	4415.0	4408.8
17.5°	5523.4	5430.0	5241.6	4989.4	4785.5	4552.0	4388.5	4248.4	4158.1	4091.2	4089.6
20°	5688.4	5545.2	5247.9	4913.2	4634.5	4335.6	4106.8	3929.3	3800.1	3716.0	3714.5
22.5°	5895.5	5700.9	5305.5	4826.0	4441.5	4074.1	3789.2	3482.5	3305.0	3133.8	3102.6
25°	6138.3	5858.1	5355.3	4780.8	4251.5	3801.6	3378.2	2929.8	2654.3	2517.3	2465.9
27.5°	6479.3	6119.7	5428.5	4695.2	4072.5	3465.4	2848.9	2360.1	2028.5	1911.7	1911.7
30°	6873.1	6449.7	5565.4	4643.8	3823.4	2993.7	2268.2	1743.6	1435.3	1259.4	1254.8
32.5°	7474.0	6843.6	5690.0	4533.3	3521.4	2479.9	1640.8	1124.0	876.5	767.5	761.3
35°	8338.1	7593.9	5890.8	4422.8	3084.0	1846.3	1041.5	644.5	499.7	437.5	434.3
37.5°	9169.4	8308.5	6323.6	4203.3	2462.8	1159.8	577.6	372.1	305.1	297.3	294.2
40°	9754.7	8925.0	6628.7	3868.6	1749.8	614.9	334.7	269.3	264.7	261.5	260.0
42.5°	10393.0	9382.6	6845.1	3442.0	1038.4	356.5	272.4	242.9	235.1	232.0	232.0
45°	10911.4	9823.2	6885.6	2831.8	523.1	294.2	249.1	221.1	211.7	217.9	219.5
47.5°	11389.3	10238.9	6748.6	2129.7	353.4	274.0	233.5	205.5	199.3	214.8	214.8
50°	11797.2	10590.7	6434.1	1589.5	331.6	258.4	217.9	189.9	188.4	202.4	203.9
52.5°	12203.5	10874.0	5939.1	1200.3	314.5	241.3	202.4	175.9	171.2	180.6	182.1
55°	12525.8	10975.2	5571.7	893.6	302.0	225.7	188.4	161.9	151.0	149.4	152.6
57.5°	12703.2	10886.5	5212.1	657.0	288.0	211.7	174.4	143.2	126.1	126.1	126.1
60°	12706.3	10779.1	4827.5	520.0	272.4	196.2	158.8	123.0	105.9	102.7	102.7
62.5°	12672.1	10587.6	4268.7	451.5	255.3	183.7	138.6	104.3	91.8	87.2	87.2
65°	12521.1	10226.4	3591.5	386.1	235.1	174.4	118.3	93.4	82.5	76.3	76.3
67.5°	12050.9	9549.2	2764.8	336.3	216.4	154.1	107.4	84.1	73.2	66.9	65.4
70°	11188.5	8454.8	1824.5	286.4	197.7	137.0	98.1	76.3	65.4	59.2	57.6
72.5°	9742.3	6880.9	916.9	242.9	169.7	126.1	88.7	66.9	56.0	49.8	49.8
75°	7634.4	4776.2	499.7	193.0	133.9	110.5	77.8	56.0	48.3	43.6	43.6
77.5°	4681.2	2367.8	340.9	149.4	101.2	90.3	62.3	46.7	42.0	40.5	40.5
80°	1707.8	775.3	228.8	105.9	76.3	70.1	49.8	40.5	38.9	38.9	38.9
82.5°	616.5	393.9	154.1	71.6	48.3	52.9	40.5	34.2	32.7	34.2	35.8
85°	253.8	172.8	56.0	40.5	26.5	28.0	24.9	23.4	24.9	26.5	26.5
87.5°	38.9	34.2	20.2	20.2	15.6	14.0	10.9	12.5	15.6	18.7	18.7
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)