

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: P319668

Luminaire Tested: **GAN-SA4A-740-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4A-740-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18800 lumens  
Efficiency: N/A  
Efficacy: 145.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

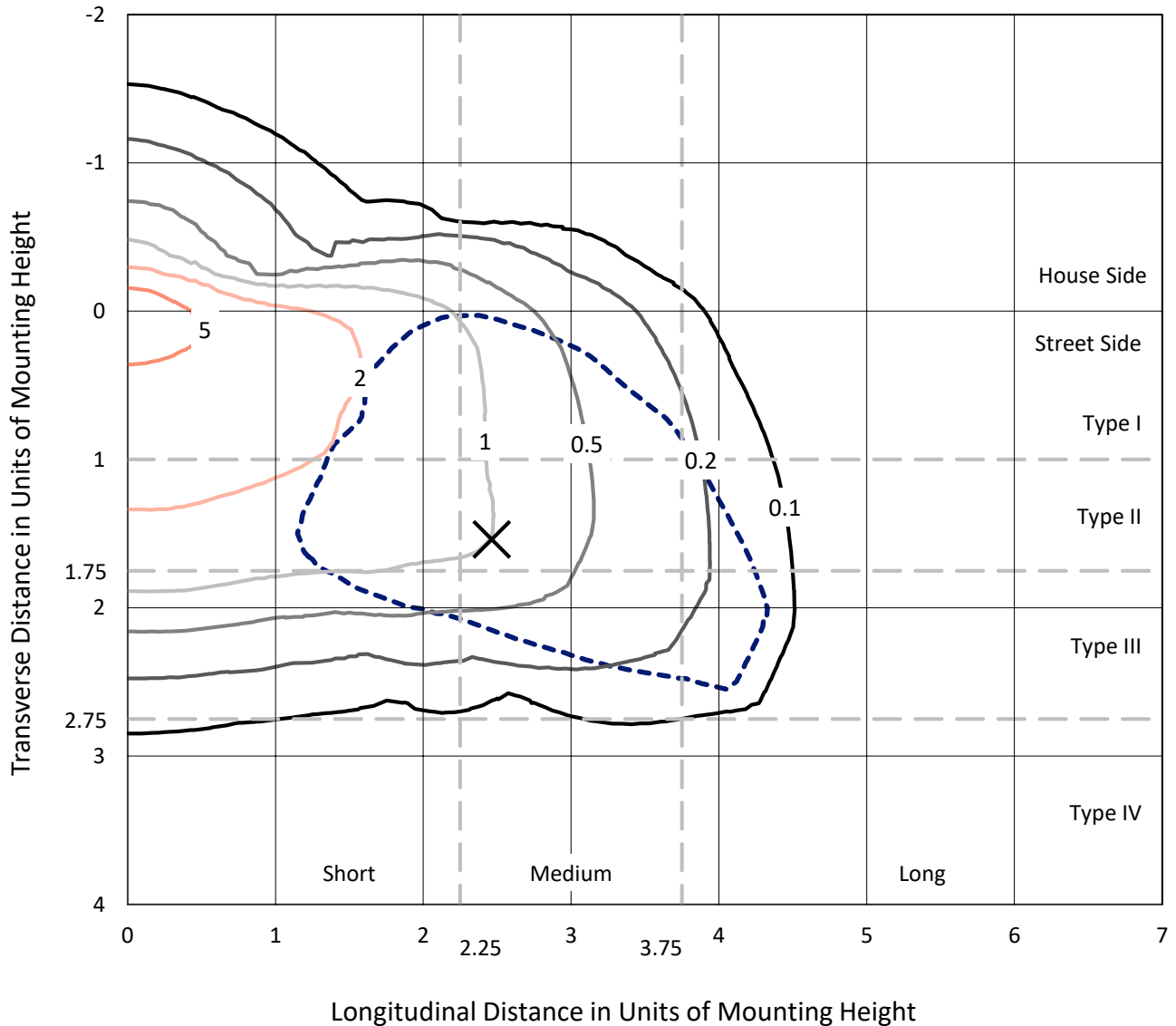
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

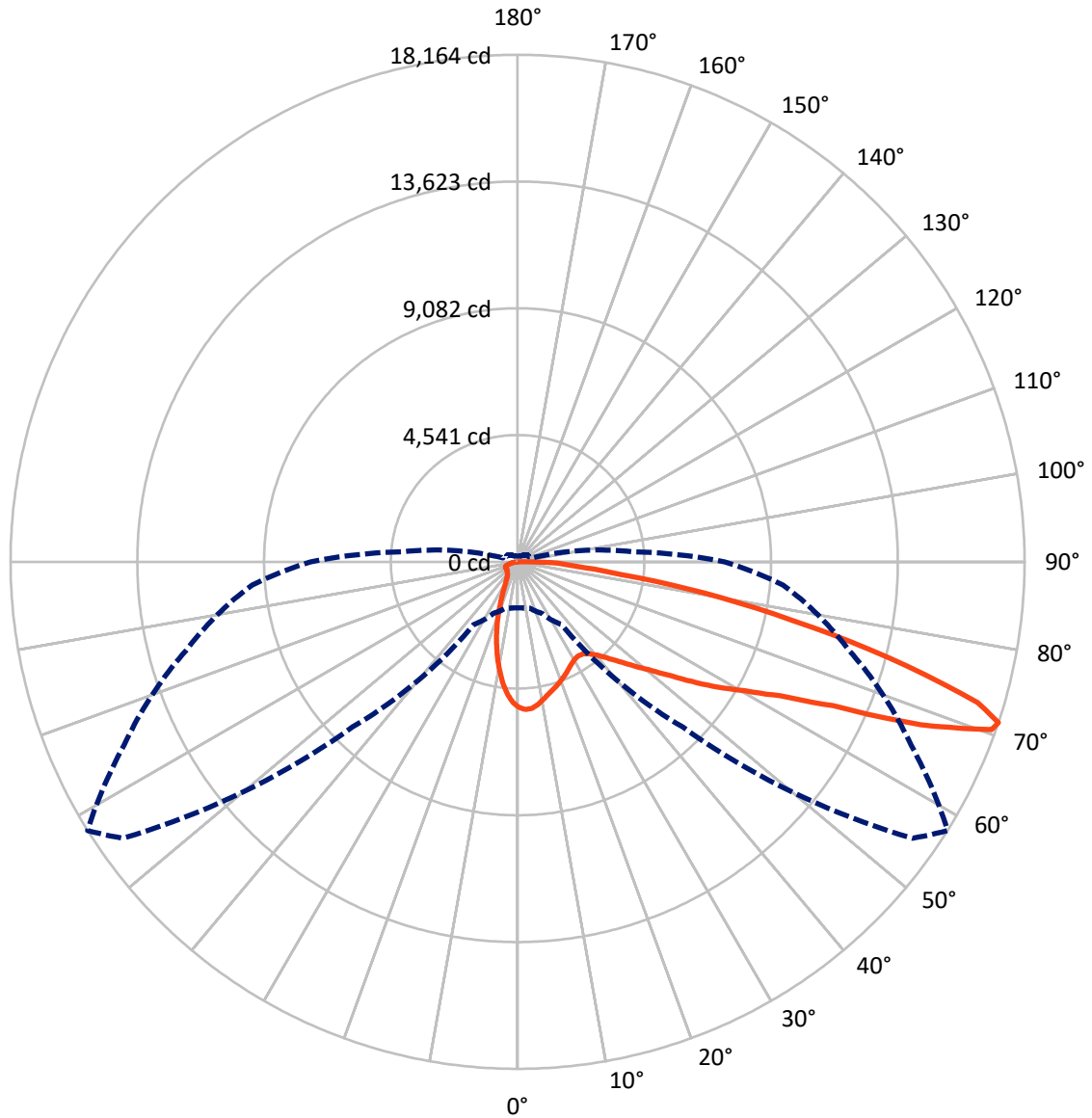
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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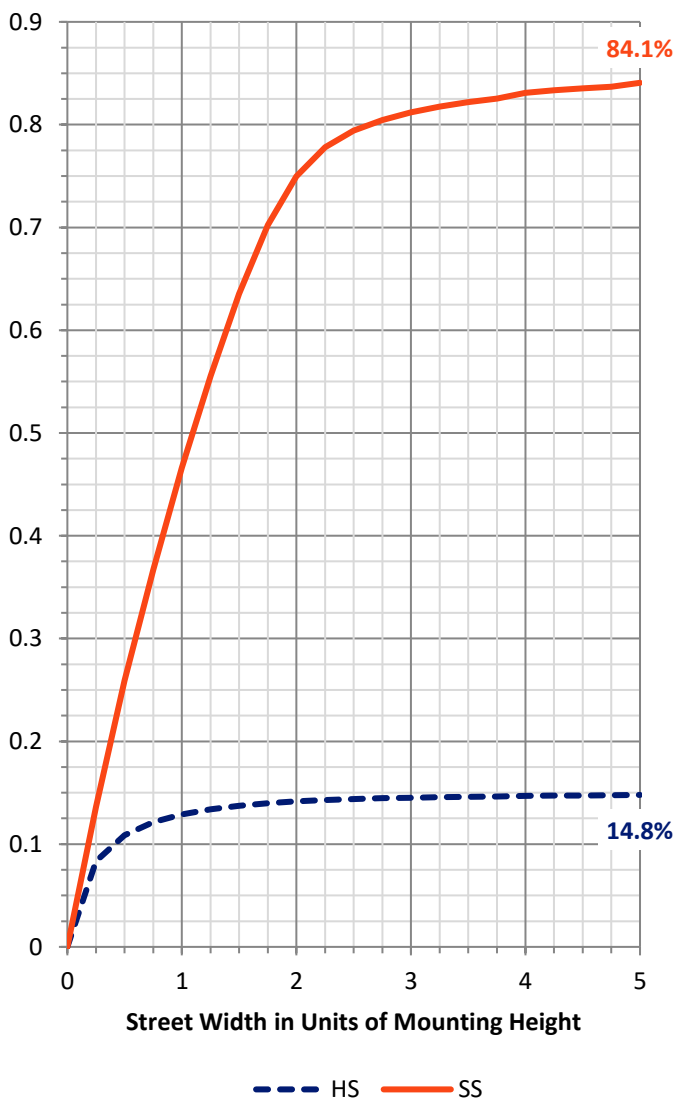
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2810.7	0.0	2810.7
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	15989.3	0.0	15989.3
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	18800.0	0.0	18800.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	449.4	2.4
10°-20°	999.2	5.3
20°-30°	1269.9	6.8
30°-40°	1617.6	8.6
40°-50°	2293.9	12.2
50°-60°	3549.8	18.9
60°-70°	4832.6	25.7
70°-80°	3223.9	17.1
80°-90°	563.7	3.0
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°	18800.0	100.0
0°-180°	18800.0	100.0

**Coefficient of Utilization**

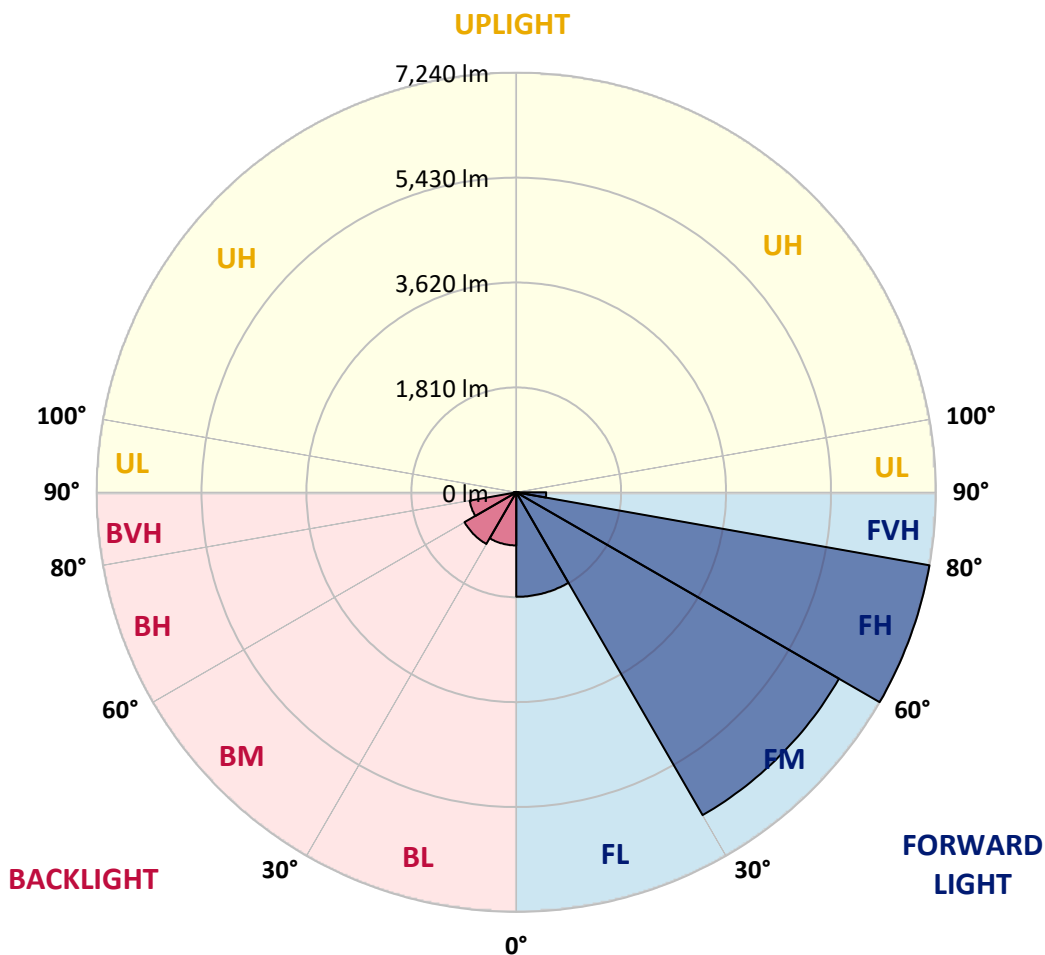


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.3	9.6			
FM (30°-60°)	6430.5	34.2			
FH (60°-80°)	7239.7	38.5			G3/7500
FVH (80°-90°)	516.8	2.7			G4/750
BL (0°-30°)	916.2	4.9	B2/1000		
BM (30°-60°)	1030.8	5.5	B2/2500		
BH (60°-80°)	816.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	46.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9
2.5°	5347.0	5339.8	5342.5	5337.2	5324.8	5312.3	5294.0	5297.3	5271.7	5233.7	5186.6
5°	5246.2	5243.6	5263.2	5274.3	5283.5	5276.3	5271.1	5277.6	5240.3	5187.9	5106.0
7.5°	5034.7	5005.8	5030.7	5068.1	5103.4	5130.3	5165.6	5170.2	5146.6	5091.6	4984.2
10°	4734.1	4706.6	4743.2	4801.5	4872.3	4936.4	5007.8	5020.9	5025.5	4975.7	4845.4
12.5°	4422.4	4401.4	4438.1	4519.9	4637.2	4736.0	4850.0	4869.6	4910.2	4876.8	4717.0
15°	4143.4	4135.5	4180.1	4260.6	4395.5	4546.8	4711.2	4747.2	4815.9	4804.8	4616.9
17.5°	3902.4	3900.4	3934.5	4019.0	4168.3	4359.5	4573.0	4633.9	4736.0	4749.1	4534.3
20°	3723.0	3719.0	3742.6	3804.8	3958.7	4175.5	4423.7	4507.5	4654.8	4700.7	4449.2
22.5°	3626.7	3626.0	3626.7	3656.2	3781.9	3983.6	4278.3	4380.4	4575.6	4662.0	4354.9
25°	3610.3	3608.3	3593.9	3590.7	3662.0	3823.1	4134.2	4246.8	4500.3	4635.2	4265.2
27.5°	3652.9	3655.5	3636.5	3605.7	3620.1	3717.7	4009.1	4129.6	4440.0	4629.9	4203.0
30°	3741.3	3740.0	3723.6	3691.5	3663.4	3678.4	3920.1	4040.6	4399.4	4652.9	4160.4
32.5°	3838.9	3846.1	3842.8	3825.1	3783.2	3723.0	3893.2	4011.1	4387.6	4707.9	4142.1
35°	3956.1	3963.9	3987.5	4001.3	3952.2	3855.2	3950.8	4053.0	4421.7	4811.3	4171.5
37.5°	4067.4	4087.7	4153.9	4212.1	4170.2	4062.2	4104.1	4176.8	4527.1	4974.4	4250.8
40°	4195.8	4213.5	4321.5	4445.3	4438.7	4326.7	4351.0	4399.4	4713.1	5208.2	4394.2
42.5°	4322.2	4357.5	4514.0	4689.5	4740.0	4641.1	4679.7	4705.3	4975.1	5518.0	4644.4
45°	4490.5	4528.4	4745.9	4957.4	5075.3	5019.6	5081.2	5091.0	5304.5	5939.7	5007.8
47.5°	4745.2	4788.4	5041.9	5263.9	5444.0	5449.8	5551.4	5547.4	5715.7	6422.3	5465.6
50°	5142.1	5204.3	5411.9	5619.5	5838.2	5960.0	6095.6	6076.6	6208.8	6936.4	5992.7
52.5°	5662.0	5690.8	5844.7	5998.0	6269.8	6542.8	6737.3	6720.3	6768.1	7464.9	6591.3
55°	6201.0	6222.6	6286.1	6369.9	6735.4	7180.7	7591.9	7565.1	7443.9	8013.7	7182.6
57.5°	6685.6	6729.5	6773.3	6808.1	7204.3	7847.3	8466.2	8468.2	8177.4	8605.7	7793.6
60°	6760.9	6799.5	7089.7	7363.4	8006.5	8736.7	9402.0	9382.4	8936.4	9248.1	8474.7
62.5°	5976.4	6063.5	6548.1	7276.3	8779.2	10363.4	10595.8	10571.6	9844.0	10039.9	9267.8
65°	4282.9	4381.8	4966.6	6060.8	8404.6	12155.7	12750.4	12424.2	11081.8	11013.6	10196.4
67.5°	2470.8	2494.4	2747.8	3626.7	6399.4	12249.4	16037.2	15580.7	13003.8	12118.4	10650.8
70°	1827.1	1826.4	1886.7	2231.8	3463.0	9997.3	17600.4	18009.7	15027.4	12481.9	10008.4
71°	1652.2	1654.2	1721.7	2031.4	2742.6	8368.0	17268.3	18164.2	15560.4	12302.4	9543.5
72.5°	1413.2	1419.8	1513.4	1821.9	2307.1	5770.7	15838.1	17236.9	15813.2	11859.7	8815.9
75°	1072.0	1087.1	1216.8	1535.7	2108.7	2926.6	11624.0	13764.1	14047.7	10464.9	6550.7
77.5°	764.9	781.9	928.6	1291.4	2004.6	2205.6	7784.5	10039.9	10337.8	6706.6	2954.8
80°	483.3	503.6	614.3	1027.5	1883.4	2094.3	4891.9	6748.5	5637.1	2146.0	751.8
82.5°	283.6	299.3	381.1	671.2	1538.3	2017.0	2878.2	3740.6	2193.8	648.3	341.8
85°	164.4	171.6	237.7	427.6	1117.2	1903.7	2114.6	2091.0	952.2	317.0	161.8
87.5°	76.6	85.1	140.8	223.3	620.2	1379.8	1671.2	1444.0	592.0	148.7	76.0
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°	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9	5208.9
2.5°	5163.7	5152.5	5106.0	5064.8	5021.6	4965.2	4903.0	4895.2	4857.2	4864.4	4851.3
5°	5061.5	5033.4	4921.4	4819.9	4700.0	4592.6	4476.1	4422.4	4345.1	4339.8	4320.2
7.5°	4915.5	4863.1	4689.5	4497.0	4304.5	4121.1	3939.7	3820.5	3698.7	3647.0	3642.4
10°	4751.1	4662.0	4406.6	4121.8	3844.1	3576.3	3316.9	3125.1	2952.2	2870.3	2867.0
12.5°	4595.2	4463.6	4113.3	3725.6	3345.7	2998.7	2643.1	2390.9	2174.2	2101.5	2070.7
15°	4463.0	4277.6	3827.7	3332.0	2871.0	2389.0	1984.3	1719.0	1518.6	1449.2	1436.1
17.5°	4334.6	4096.2	3535.0	2934.5	2377.2	1847.4	1442.0	1244.9	1138.2	1110.0	1109.4
20°	4206.9	3909.6	3229.2	2527.8	1899.8	1381.8	1108.7	1020.3	984.3	981.0	975.8
22.5°	4062.2	3711.8	2907.6	2119.8	1482.6	1086.4	942.4	907.0	902.4	914.2	914.2
25°	3926.6	3515.4	2581.5	1720.4	1153.2	906.3	841.5	834.3	846.8	867.7	869.7
27.5°	3800.2	3326.1	2263.2	1365.4	924.0	798.3	771.4	780.0	802.2	826.4	827.1
30°	3696.1	3147.3	1954.1	1076.0	780.6	717.7	713.2	730.2	754.4	773.4	778.0
32.5°	3615.6	2994.7	1655.5	865.1	687.0	657.5	661.4	675.8	690.9	701.4	708.6
35°	3578.2	2863.8	1379.8	729.5	627.4	611.0	616.2	624.1	630.6	638.5	644.4
37.5°	3584.8	2762.3	1133.6	645.0	587.4	578.9	578.9	578.9	578.9	582.8	583.5
40°	3645.7	2704.0	933.2	591.3	560.6	551.4	544.2	537.7	532.4	535.0	533.7
42.5°	3801.5	2698.7	786.5	557.3	539.0	523.9	509.5	500.3	493.8	496.4	497.7
45°	4066.1	2764.2	687.6	533.1	518.7	495.7	477.4	467.6	463.0	471.5	472.8
47.5°	4408.6	2907.0	627.4	515.4	499.7	469.5	449.9	440.7	442.0	454.5	457.8
50°	4850.0	3138.8	598.6	504.3	486.6	447.3	427.0	419.1	423.0	440.7	444.7
52.5°	5334.6	3472.8	601.8	501.0	478.1	430.9	409.3	400.1	406.7	423.0	426.3
55°	5893.9	3874.2	656.2	505.6	465.6	420.4	394.9	379.2	384.4	399.5	402.1
57.5°	6515.3	4333.9	765.5	504.3	449.9	410.6	379.8	356.3	360.2	369.3	372.0
60°	7162.3	4889.3	935.2	508.2	442.7	398.8	359.5	330.1	328.7	336.6	337.9
62.5°	7939.0	5531.7	1129.0	510.8	447.3	383.8	332.7	303.9	299.9	301.9	303.2
65°	8739.3	5996.7	1056.3	500.3	461.7	371.3	309.1	278.3	271.1	269.8	270.5
67.5°	8764.2	5498.3	740.7	479.4	467.6	364.8	291.4	256.7	244.9	240.3	239.7
70°	7859.8	4466.9	576.9	457.1	444.0	354.3	275.0	239.0	221.3	214.1	213.5
71°	7418.4	4111.9	546.8	446.0	426.3	343.8	267.8	231.2	212.8	205.0	203.7
72.5°	6726.2	3686.3	510.1	428.3	392.3	317.0	254.1	220.0	201.0	191.9	189.9
75°	4827.1	2410.6	438.1	381.8	324.8	252.8	222.7	197.8	181.4	170.3	169.0
77.5°	1859.8	959.4	331.4	317.6	248.9	197.8	183.4	170.9	159.1	148.0	147.3
80°	575.0	428.9	241.6	239.0	180.1	147.3	142.8	139.5	134.9	123.1	120.5
82.5°	307.1	246.2	166.3	154.5	117.9	98.2	103.5	104.8	105.4	93.0	91.7
85°	146.7	130.3	93.6	87.8	68.8	55.0	63.5	68.8	69.4	57.0	53.0
87.5°	70.1	68.1	43.9	33.4	25.5	18.3	22.3	27.5	30.1	21.6	19.0
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)