

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: P321553

Luminaire Tested: **GAN-SA9A-730-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29181 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

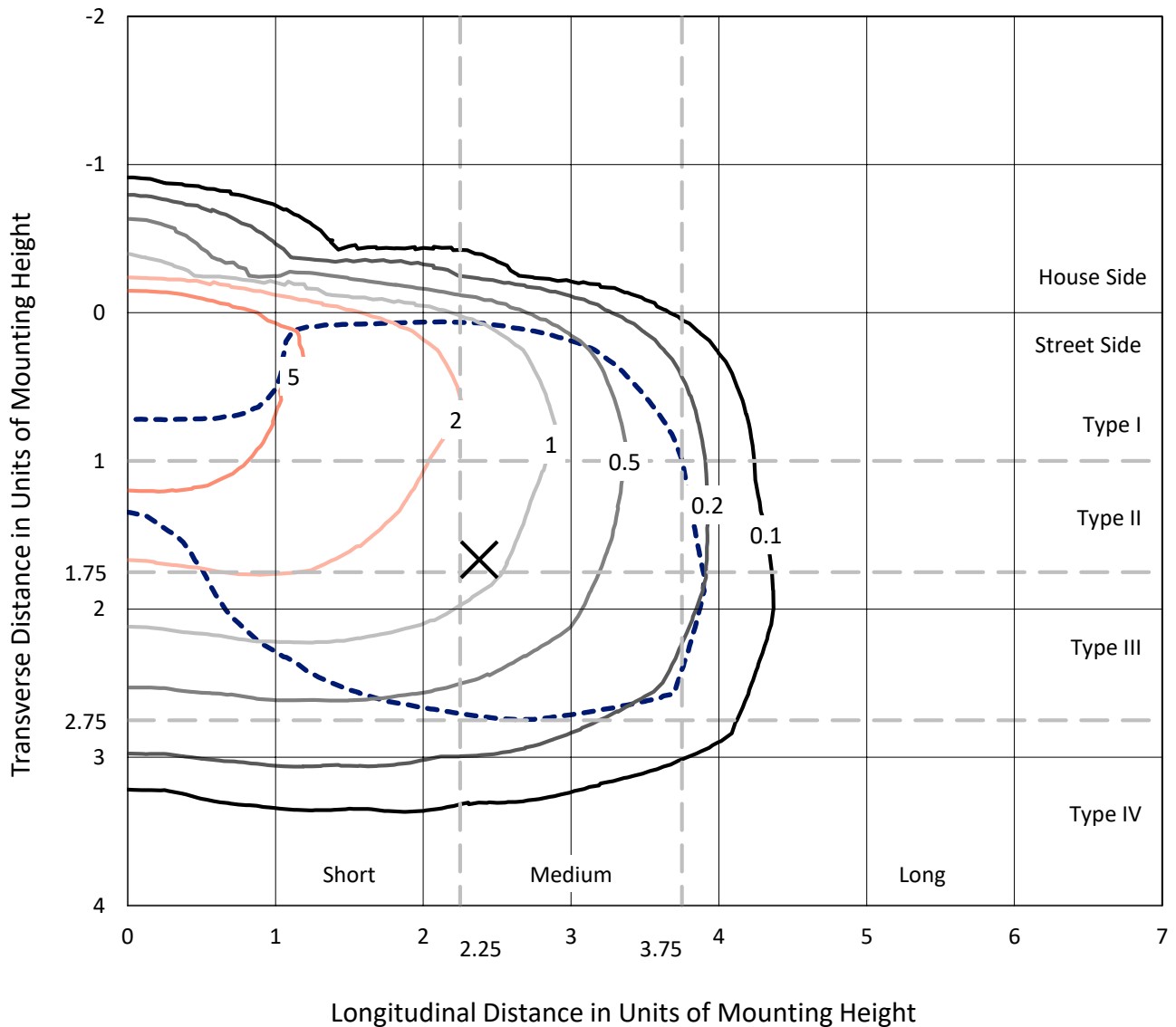
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

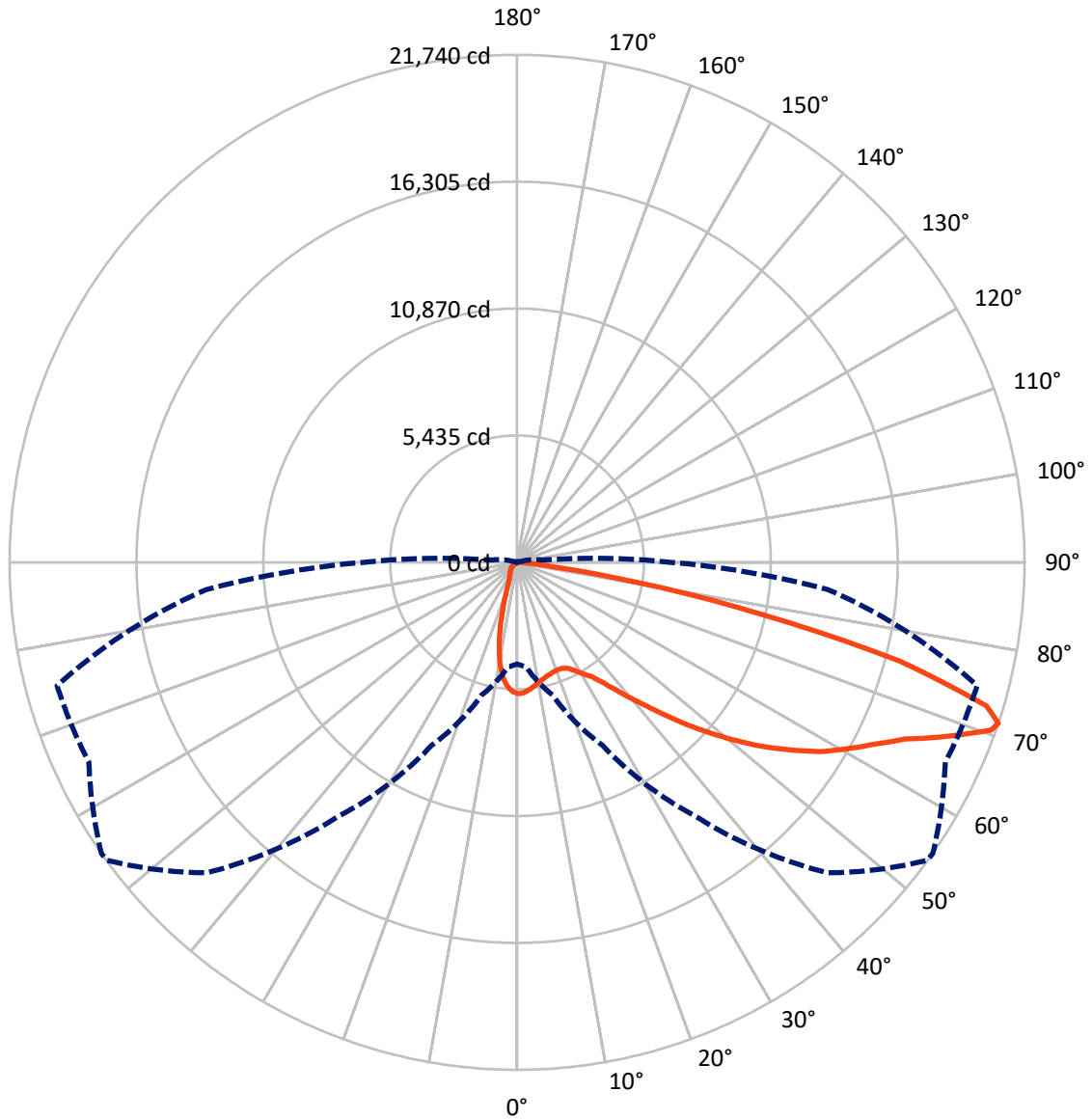
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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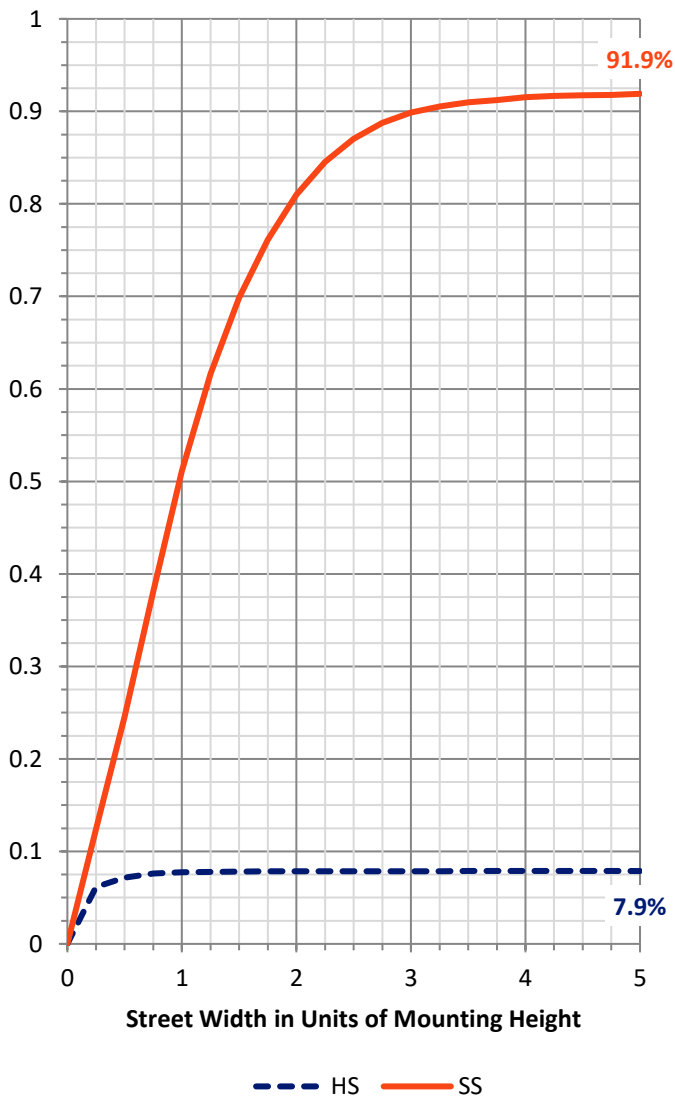
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2310.3	0.0	2310.3
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	26870.7	0.0	26870.7
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	29181.0	0.0	29181.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.8	1.6
10°-20°	1083.3	3.7
20°-30°	1740.8	6.0
30°-40°	2957.8	10.1
40°-50°	4590.8	15.7
50°-60°	6172.2	21.2
60°-70°	7550.7	25.9
70°-80°	4414.7	15.1
80°-90°	190.8	0.7
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°	29181.0	100.0
0°-180°	29181.0	100.0

**Coefficient of Utilization**

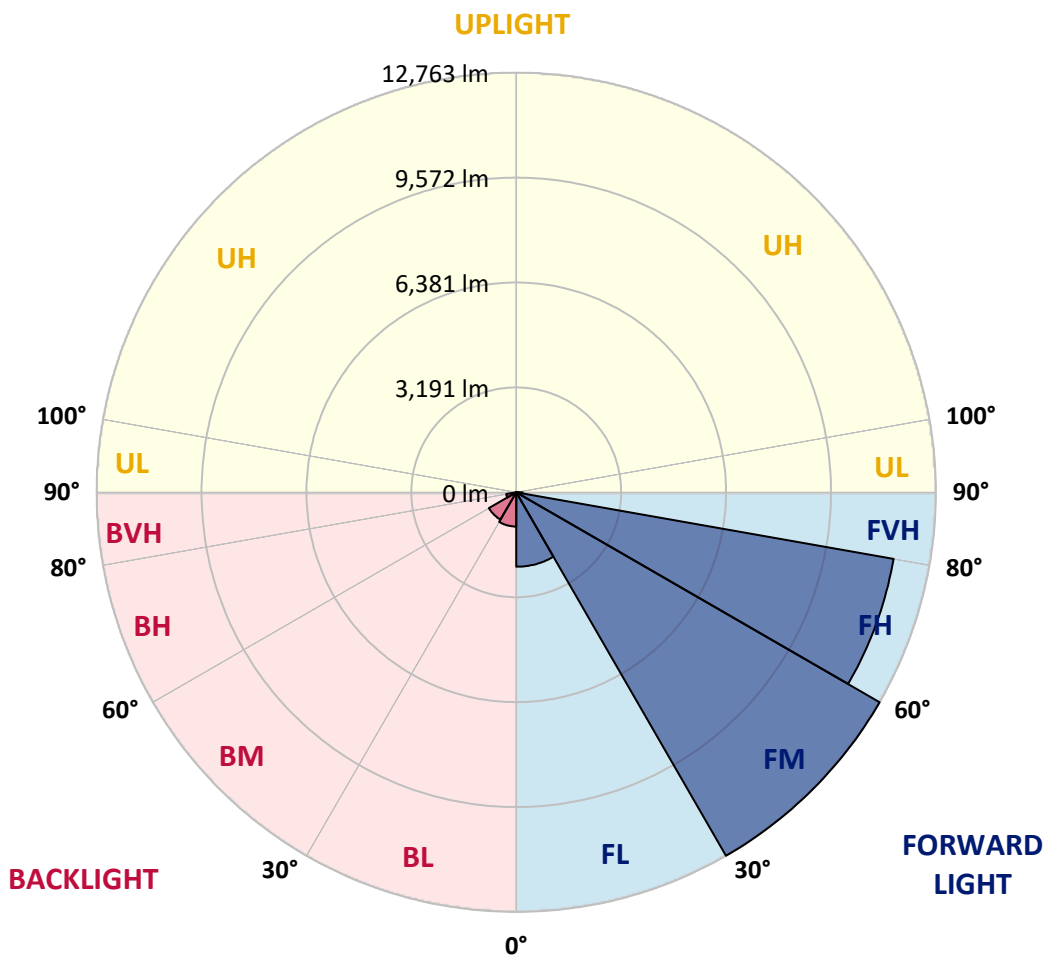


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2264.0	7.8			
FM (30°-60°)	12762.9	43.7			
FH (60°-80°)	11655.9	39.9			G4/12000
FVH (80°-90°)	187.8	0.6			G2/225
BL (0°-30°)	1039.9	3.6	B3/2500		
BM (30°-60°)	957.9	3.3	B1/1000		
BH (60°-80°)	309.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7
2.5°	5462.6	5469.1	5492.7	5503.2	5528.1	5570.0	5591.0	5592.3	5626.4	5639.5	5649.9
5°	5076.0	5115.3	5154.6	5196.6	5272.6	5373.5	5473.0	5482.2	5592.3	5673.5	5716.8
7.5°	4743.2	4778.6	4825.8	4892.6	5000.0	5158.6	5325.0	5344.6	5553.0	5737.7	5834.7
10°	4401.2	4430.1	4498.2	4596.5	4744.5	4956.8	5180.9	5213.6	5517.6	5824.2	5994.5
12.5°	4035.7	4052.7	4135.2	4276.8	4494.3	4764.2	5059.0	5102.2	5495.3	5923.8	6183.2
15°	3757.9	3765.8	3844.4	3991.1	4240.1	4591.2	4964.7	5017.1	5500.6	6043.0	6388.9
17.5°	3687.1	3691.1	3733.0	3833.9	4054.0	4436.6	4890.0	4954.2	5516.3	6159.6	6596.0
20°	3974.1	3946.6	3903.3	3887.6	3981.9	4343.6	4845.4	4917.5	5537.3	6263.1	6782.0
22.5°	4761.6	4680.3	4500.8	4261.0	4115.6	4350.1	4857.2	4929.3	5604.1	6390.2	6996.9
25°	5930.3	5817.7	5512.4	5040.7	4587.3	4538.8	4955.5	5028.9	5733.8	6542.2	7202.6
27.5°	7260.3	7148.9	6775.5	6102.0	5328.9	4912.2	5180.9	5249.0	5926.4	6677.2	7359.9
30°	8533.9	8502.4	8062.2	7297.0	6261.8	5517.6	5471.7	5529.4	6069.2	6758.4	7484.3
32.5°	9613.5	9563.7	9210.0	8465.7	7329.7	6244.8	5813.7	5830.8	6176.7	6863.3	7646.8
35°	10614.6	10553.0	10242.5	9538.9	8425.1	7133.2	6340.5	6315.6	6411.2	7074.2	7882.7
37.5°	11488.6	11544.9	11200.3	10530.7	9407.8	8056.9	7050.6	6975.9	6778.1	7417.5	8224.6
40°	12219.7	12219.7	12040.2	11482.0	10469.2	9012.1	7853.8	7755.6	7329.7	7946.9	8658.3
42.5°	12483.1	12539.4	12606.2	12290.4	11419.1	10005.3	8748.8	8646.5	8106.7	8697.7	9206.0
45°	12498.8	12587.9	12929.9	12928.6	12277.3	10992.0	9757.7	9709.2	9102.5	9662.0	9884.8
47.5°	12277.3	12388.7	12952.1	13271.8	12957.4	11910.5	10860.9	10800.7	10272.6	10843.9	10594.9
50°	11935.4	12058.5	12713.7	13406.8	13419.9	12709.7	12023.1	11932.7	11560.6	12194.8	11328.7
52.5°	11323.5	11561.9	12500.1	13438.3	13723.9	13400.3	13129.0	13089.7	13001.9	13495.9	11913.1
55°	10014.5	10279.2	11964.2	13448.7	14005.6	14012.2	14165.5	14175.9	14352.8	14711.8	12348.1
57.5°	9396.0	9545.4	11028.6	13498.5	14423.6	14706.6	15221.5	15302.8	15576.6	15866.2	12844.7
60°	9006.9	9183.8	10567.4	13430.4	15080.0	15617.2	16200.3	16227.8	16521.3	17057.2	13516.9
62.5°	8696.3	8870.6	10276.5	13168.3	15817.7	16712.6	17156.8	17159.5	17379.6	18476.3	14280.8
65°	7929.8	8076.6	9688.2	12873.5	16305.1	17796.2	18267.9	18250.9	18430.4	19972.6	15167.8
67.5°	6821.3	6934.0	8486.7	11755.8	16121.7	18781.6	19945.1	19888.8	19671.3	21265.9	15516.4
70°	5273.9	5314.5	6689.0	9797.0	14402.6	19160.3	21565.9	21537.1	20432.5	21034.0	14238.8
71°	4359.3	4493.0	5895.0	8646.5	13250.9	18810.4	21723.2	21740.2	20241.2	20402.4	13359.6
72.5°	2531.5	2645.5	4272.8	6640.5	11250.1	17350.8	20908.2	21031.3	19347.6	18557.5	11411.2
75°	542.5	580.5	1584.1	3214.1	6188.5	12160.7	16503.0	16941.9	15769.2	12624.6	6877.7
77.5°	377.4	407.5	678.7	1458.3	2045.3	6009.0	10251.6	10746.9	9420.9	4744.5	2201.3
80°	298.7	332.8	529.4	720.7	552.9	1937.9	4802.2	5104.9	3142.1	1058.7	370.8
82.5°	166.4	197.9	412.7	389.2	212.3	368.2	1344.3	1519.9	628.9	213.6	87.8
85°	48.5	59.0	266.0	283.0	90.4	70.8	229.3	284.3	119.2	56.3	39.3
87.5°	0.0	0.0	128.4	108.8	26.2	10.5	21.0	23.6	23.6	23.6	26.2
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°	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7	5627.7
2.5°	5649.9	5659.1	5626.4	5583.1	5537.3	5480.9	5421.9	5376.1	5374.8	5352.5	5330.2
5°	5719.4	5714.1	5623.7	5486.2	5323.7	5154.6	4993.5	4811.4	4751.1	4676.4	4651.5
7.5°	5847.8	5811.1	5619.8	5318.4	4962.0	4608.3	4242.7	3874.5	3717.3	3575.8	3550.9
10°	6009.0	5939.5	5594.9	5066.9	4413.0	3760.5	3208.9	2708.4	2488.2	2319.2	2311.3
12.5°	6176.7	6070.5	5525.5	4686.9	3693.7	2776.5	2141.0	1648.3	1464.9	1347.0	1357.5
15°	6352.2	6193.7	5376.1	4174.6	2874.8	1884.2	1315.5	1026.0	952.6	922.4	930.3
17.5°	6531.8	6278.9	5167.8	3557.4	2066.3	1215.9	910.6	829.4	829.4	836.0	838.6
20°	6687.7	6324.7	4861.1	2865.6	1400.7	885.8	796.7	784.9	791.4	801.9	803.2
22.5°	6842.3	6327.4	4461.5	2164.6	980.1	775.7	758.7	753.4	757.3	769.1	770.4
25°	6968.1	6295.9	3961.0	1539.6	782.2	731.1	723.3	720.7	723.3	737.7	737.7
27.5°	7019.2	6181.9	3350.4	1082.3	701.0	681.3	678.7	681.3	685.3	695.8	697.1
30°	7024.4	5982.7	2684.8	783.5	635.5	614.5	619.8	628.9	625.0	622.4	625.0
32.5°	7037.5	5752.1	2036.2	644.7	580.5	547.7	541.1	541.1	525.4	516.3	511.0
35°	7080.8	5480.9	1476.7	579.1	524.1	486.1	461.2	432.4	402.3	386.5	382.6
37.5°	7148.9	5196.6	1057.4	535.9	474.3	431.1	383.9	332.8	289.6	277.8	277.8
40°	7273.4	4903.1	782.2	501.8	435.0	381.3	310.5	243.7	204.4	197.9	197.9
42.5°	7469.9	4593.8	623.7	471.7	400.9	330.2	237.2	176.9	148.1	144.1	142.8
45°	7674.3	4253.2	545.1	442.9	364.3	271.2	175.6	131.0	114.0	110.1	110.1
47.5°	7878.7	3890.2	507.1	415.4	328.9	211.0	131.0	103.5	95.7	95.7	97.0
50°	8051.7	3511.6	479.6	385.2	283.0	159.9	103.5	87.8	85.2	90.4	91.7
52.5°	8094.9	3139.4	445.5	347.2	226.7	121.9	85.2	77.3	77.3	77.3	77.3
55°	8068.7	2851.2	400.9	300.1	167.7	97.0	73.4	68.1	66.8	66.8	66.8
57.5°	8157.8	2680.8	321.0	233.2	120.5	78.6	64.2	60.3	57.7	56.3	56.3
60°	8337.3	2569.5	229.3	167.7	90.4	65.5	55.0	51.1	47.2	44.5	44.5
62.5°	8575.8	2472.5	170.3	124.5	69.4	52.4	45.9	41.9	36.7	34.1	34.1
65°	8759.2	2299.5	129.7	93.0	52.4	41.9	35.4	34.1	26.2	23.6	22.3
67.5°	8478.8	1919.6	104.8	68.1	39.3	32.8	27.5	26.2	15.7	13.1	13.1
70°	7272.1	1336.5	83.9	49.8	28.8	26.2	22.3	17.0	11.8	10.5	10.5
71°	6594.6	1116.4	76.0	41.9	24.9	24.9	21.0	14.4	10.5	9.2	9.2
72.5°	5478.3	792.7	64.2	32.8	22.3	26.2	22.3	13.1	10.5	9.2	7.9
75°	3180.1	331.5	44.5	22.3	17.0	31.4	28.8	11.8	7.9	6.6	6.6
77.5°	956.5	121.9	24.9	14.4	13.1	27.5	32.8	10.5	3.9	1.3	1.3
80°	174.3	52.4	15.7	9.2	9.2	17.0	24.9	5.2	0.0	0.0	0.0
82.5°	61.6	26.2	9.2	5.2	3.9	7.9	11.8	0.0	0.0	0.0	0.0
85°	35.4	18.3	5.2	2.6	0.0	1.3	2.6	0.0	0.0	0.0	0.0
87.5°	23.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)