

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: P319551

Luminaire Tested: **GAN-SA7A-722-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-722-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23738 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

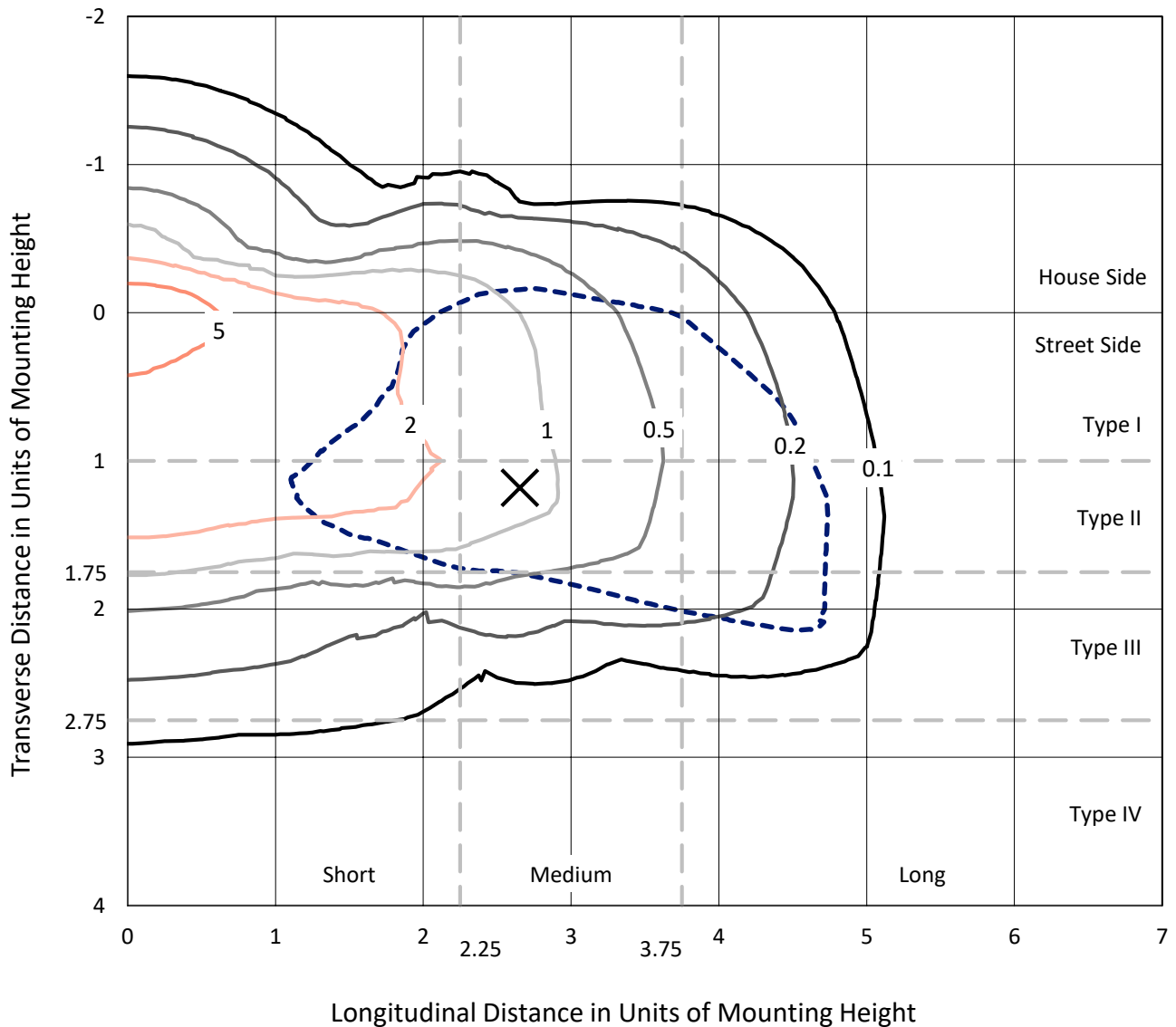
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

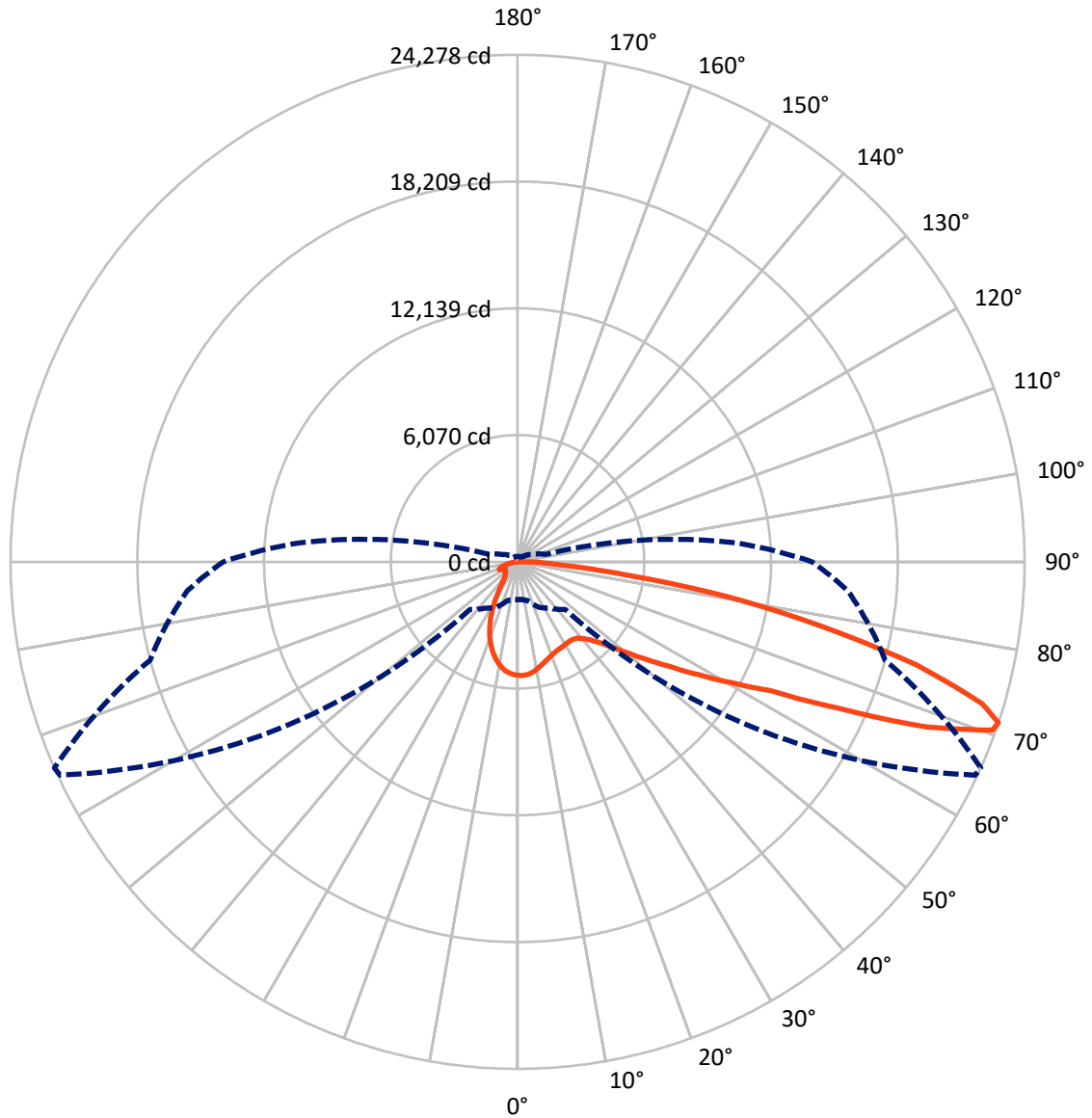
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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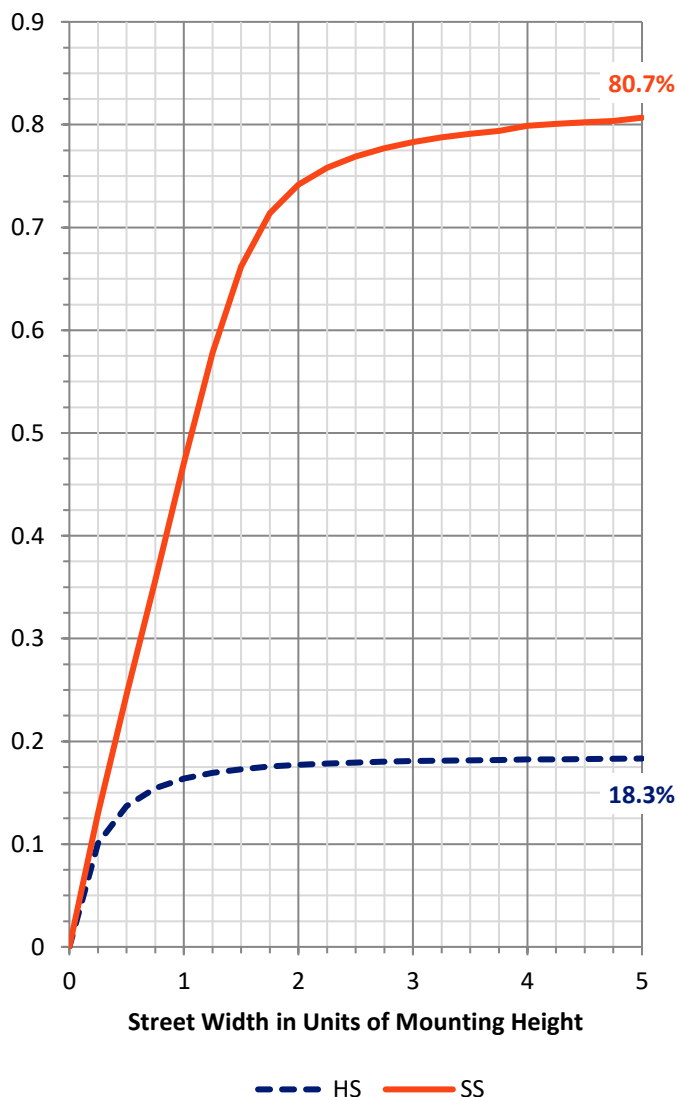
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4399.3	0.0	4399.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	19338.7	0.0	19338.7
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	23738.0	0.0	23738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.7	2.0
10°-20°	1148.1	4.8
20°-30°	1542.1	6.5
30°-40°	2028.6	8.5
40°-50°	2951.1	12.4
50°-60°	4610.0	19.4
60°-70°	5774.7	24.3
70°-80°	4404.8	18.6
80°-90°	799.9	3.4
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°	23738.0	100.0
0°-180°	23738.0	100.0

**Coefficient of Utilization**

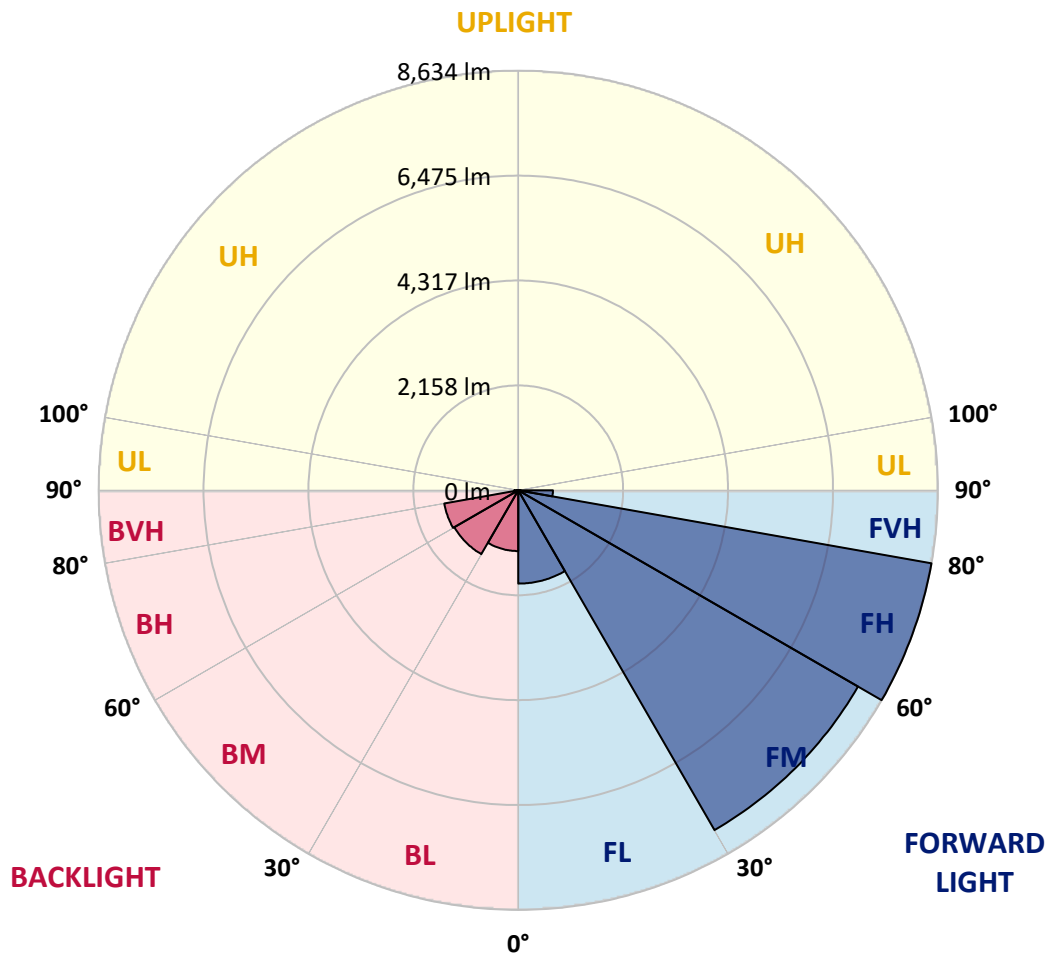


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.5	8.1			
FM (30°-60°)	8072.1	34.0			
FH (60°-80°)	8633.8	36.4			G4/12000
FVH (80°-90°)	713.3	3.0			G4/750
BL (0°-30°)	1249.3	5.3	B3/2500		
BM (30°-60°)	1517.6	6.4	B2/2500		
BH (60°-80°)	1545.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	86.6	0.4			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9
2.5°	5337.1	5328.9	5353.5	5378.9	5388.7	5405.1	5429.7	5443.7	5442.8	5445.3	5437.1
5°	4983.0	4972.4	5021.6	5061.7	5138.8	5225.6	5331.4	5406.8	5408.4	5451.0	5462.5
7.5°	4647.8	4640.5	4697.0	4761.8	4851.1	4983.9	5155.2	5317.4	5327.3	5442.8	5483.0
10°	4379.0	4377.4	4432.3	4502.8	4606.9	4755.2	4951.9	5189.6	5204.3	5403.5	5486.3
12.5°	4169.2	4172.5	4220.0	4300.3	4410.2	4565.1	4778.2	5046.2	5069.9	5341.2	5467.4
15°	4014.3	4027.4	4065.9	4147.1	4255.3	4412.6	4631.4	4913.4	4949.4	5271.5	5456.8
17.5°	3925.8	3940.5	3967.6	4034.8	4136.4	4288.0	4495.4	4804.4	4837.2	5218.3	5457.6
20°	3899.6	3911.9	3927.4	3968.4	4054.5	4192.2	4388.0	4706.0	4741.3	5175.7	5465.8
22.5°	3951.2	3960.2	3961.9	3958.6	4011.0	4123.3	4310.2	4633.9	4671.6	5147.8	5471.5
25°	4061.8	4074.1	4065.1	4034.8	4017.6	4086.4	4270.0	4586.4	4624.1	5127.3	5460.0
27.5°	4228.2	4229.9	4222.5	4183.1	4102.0	4090.5	4257.7	4558.5	4594.6	5103.5	5436.3
30°	4454.4	4465.1	4452.0	4398.7	4265.9	4156.1	4272.5	4531.5	4564.2	5073.2	5397.8
32.5°	4719.1	4745.4	4744.6	4688.8	4498.7	4302.8	4333.1	4515.1	4540.5	5041.2	5351.0
35°	4993.7	5029.8	5097.0	5073.2	4838.0	4534.7	4449.5	4541.3	4558.5	5037.1	5318.3
37.5°	5278.9	5315.0	5453.5	5517.4	5242.0	4866.7	4633.1	4633.9	4642.1	5087.1	5315.8
40°	5577.2	5615.8	5823.9	5990.3	5765.7	5287.1	4929.0	4827.3	4818.3	5210.1	5364.2
42.5°	5995.2	6029.7	6279.6	6491.9	6346.8	5825.6	5337.9	5125.7	5106.8	5451.0	5519.1
45°	6523.9	6553.4	6818.9	7045.9	6971.4	6440.3	5851.8	5536.3	5533.0	5852.6	5833.0
47.5°	7152.5	7175.4	7413.9	7633.6	7660.6	7147.6	6497.6	6169.8	6116.5	6403.4	6319.0
50°	7807.3	7832.7	7995.0	8231.0	8431.8	8094.2	7328.7	6945.9	6874.6	7130.3	7007.4
52.5°	8240.9	8274.5	8415.5	8714.6	9299.0	9131.8	8311.4	7886.8	7778.6	8011.4	7917.1
55°	8047.5	8122.9	8338.4	8817.9	9992.3	10716.8	9523.5	8984.2	8862.1	9055.5	8999.8
57.5°	7168.1	7271.3	7565.5	8305.6	10089.9	12113.4	11356.1	10276.7	10190.7	10134.9	10160.3
60°	5560.9	5660.0	6024.7	6989.4	9410.4	13133.0	14114.0	11870.0	11745.4	11218.4	11241.4
62.5°	3935.6	3885.6	4135.6	4841.3	7646.7	13252.6	17252.2	14000.9	13591.1	12362.6	12261.7
65°	3001.3	2989.8	3102.1	3326.7	4631.4	11820.8	19121.6	17582.5	16942.4	13708.3	13470.6
67.5°	2466.1	2445.6	2556.3	2883.3	2982.5	7626.2	19162.6	21737.7	21109.1	15383.5	14868.8
70°	2027.6	2004.7	2108.0	2530.0	2756.2	3867.6	16127.7	24171.1	24137.5	17504.6	15924.4
71°	1817.8	1801.4	1925.2	2394.0	2707.9	3223.4	13924.7	24177.6	24278.4	18222.6	15862.2
72.5°	1480.2	1485.9	1617.0	2130.9	2671.8	2846.4	10234.1	23050.7	23263.8	18906.9	15295.8
75°	983.5	988.4	1160.5	1639.2	2590.7	2784.9	5624.8	19342.1	19733.9	18497.1	13957.5
77.5°	660.6	658.9	776.1	1124.5	2257.1	2784.9	3298.0	14466.4	14896.7	14718.0	10760.3
80°	454.9	451.6	534.4	776.1	1708.8	2818.5	2549.7	10138.2	10268.5	7948.3	4373.3
82.5°	278.7	281.1	349.1	548.3	1163.0	2536.6	2407.1	5528.1	5386.3	2229.3	1092.5
85°	159.8	159.0	222.9	371.3	746.6	2140.7	2347.3	2379.2	2182.5	671.2	395.0
87.5°	57.4	61.5	119.7	205.7	427.8	1490.8	1991.6	1237.6	1115.4	303.2	178.7
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°	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9	5437.9
2.5°	5431.4	5436.3	5430.5	5397.8	5369.9	5324.8	5299.4	5264.2	5253.5	5248.6	5261.7
5°	5451.8	5453.5	5405.1	5319.1	5222.4	5108.4	5026.5	4925.7	4878.1	4857.7	4870.8
7.5°	5470.7	5463.3	5357.6	5192.9	5014.2	4815.9	4639.6	4478.2	4383.9	4345.4	4348.7
10°	5473.2	5442.0	5272.4	5017.5	4740.5	4449.5	4179.0	3929.9	3772.5	3670.1	3701.2
12.5°	5447.8	5395.3	5147.0	4790.4	4406.1	4009.4	3643.9	3270.1	3045.6	2941.5	2944.8
15°	5428.1	5333.0	4992.9	4523.3	4006.9	3481.6	2982.5	2543.2	2303.8	2197.3	2147.3
17.5°	5411.7	5265.8	4814.2	4222.5	3535.7	2869.4	2269.4	1877.7	1746.5	1715.4	1702.3
20°	5388.7	5194.5	4615.1	3874.2	2998.8	2184.2	1657.2	1463.8	1464.6	1500.7	1505.6
22.5°	5356.8	5113.4	4402.8	3483.2	2422.7	1590.8	1299.0	1243.3	1299.9	1368.7	1381.0
25°	5309.2	5017.5	4166.7	3051.3	1847.3	1222.8	1109.7	1107.3	1176.1	1248.2	1258.9
27.5°	5242.0	4892.1	3904.5	2587.4	1361.3	1039.2	994.2	1011.4	1062.2	1114.6	1118.7
30°	5151.9	4746.2	3615.2	2098.1	1067.1	925.3	920.4	936.0	967.1	1004.0	1007.3
32.5°	5052.7	4597.8	3306.2	1624.4	913.8	863.8	868.8	876.1	890.9	905.6	908.9
35°	4962.6	4446.2	2989.8	1234.3	840.9	823.7	820.4	818.8	820.4	815.5	816.3
37.5°	4904.4	4320.8	2660.4	982.7	799.1	788.4	778.6	766.3	752.4	744.2	745.8
40°	4883.1	4227.4	2326.8	849.1	764.7	757.3	738.4	712.2	695.8	690.9	690.9
42.5°	4940.4	4179.0	2004.7	781.9	736.0	723.7	692.5	662.2	649.9	649.1	648.3
45°	5115.8	4198.7	1698.2	745.0	709.8	686.0	645.0	619.6	611.4	613.0	612.2
47.5°	5430.5	4322.5	1435.9	720.4	683.5	652.4	606.5	586.0	576.2	576.2	577.0
50°	5965.7	4611.8	1226.9	699.9	661.4	621.2	578.6	553.2	540.1	539.3	539.3
52.5°	6745.1	5129.8	1096.6	682.7	636.8	593.4	550.8	518.8	503.2	499.9	498.3
55°	7722.1	5872.3	1060.5	671.2	604.0	563.1	517.2	485.2	468.0	460.6	459.8
57.5°	8814.6	6775.5	1131.8	657.3	570.4	527.0	480.3	449.9	431.9	422.9	422.1
60°	9920.2	7761.4	1422.8	637.6	542.6	487.7	442.6	414.7	396.7	386.8	385.2
62.5°	11027.5	8800.7	2017.0	636.0	522.9	449.9	404.1	380.3	363.1	352.4	350.0
65°	12276.5	9938.2	2692.3	679.4	516.3	415.5	364.7	345.9	331.1	321.3	320.5
67.5°	13710.8	11222.5	2627.6	768.8	538.5	384.4	327.8	313.1	302.4	294.2	293.4
70°	14383.6	11021.7	1633.4	831.9	569.6	354.1	292.6	281.9	273.7	268.0	265.5
71°	14101.7	10465.2	1369.5	824.5	566.3	340.9	278.7	270.5	262.3	257.3	254.9
72.5°	13332.9	9544.0	1142.5	767.1	529.4	317.2	260.6	252.4	245.1	239.3	237.7
75°	11964.2	8523.6	914.7	613.0	422.1	268.0	228.7	219.6	213.9	210.6	207.4
77.5°	8794.9	6082.9	707.3	484.4	310.6	218.8	195.1	188.5	182.8	177.8	175.4
80°	3369.3	2356.3	476.2	361.4	227.8	172.9	157.4	154.1	148.3	145.1	145.1
82.5°	907.3	704.0	254.1	218.8	152.4	126.2	120.5	118.8	113.9	107.4	108.2
85°	367.2	310.6	142.6	120.5	93.4	74.6	81.1	82.0	76.2	68.0	68.8
87.5°	161.5	132.0	79.5	53.3	41.0	28.7	36.9	36.9	33.6	27.9	25.4
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)