

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: P653132

Luminaire Tested: **GLAN-SA9C-840-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653132  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-840-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54851.7 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

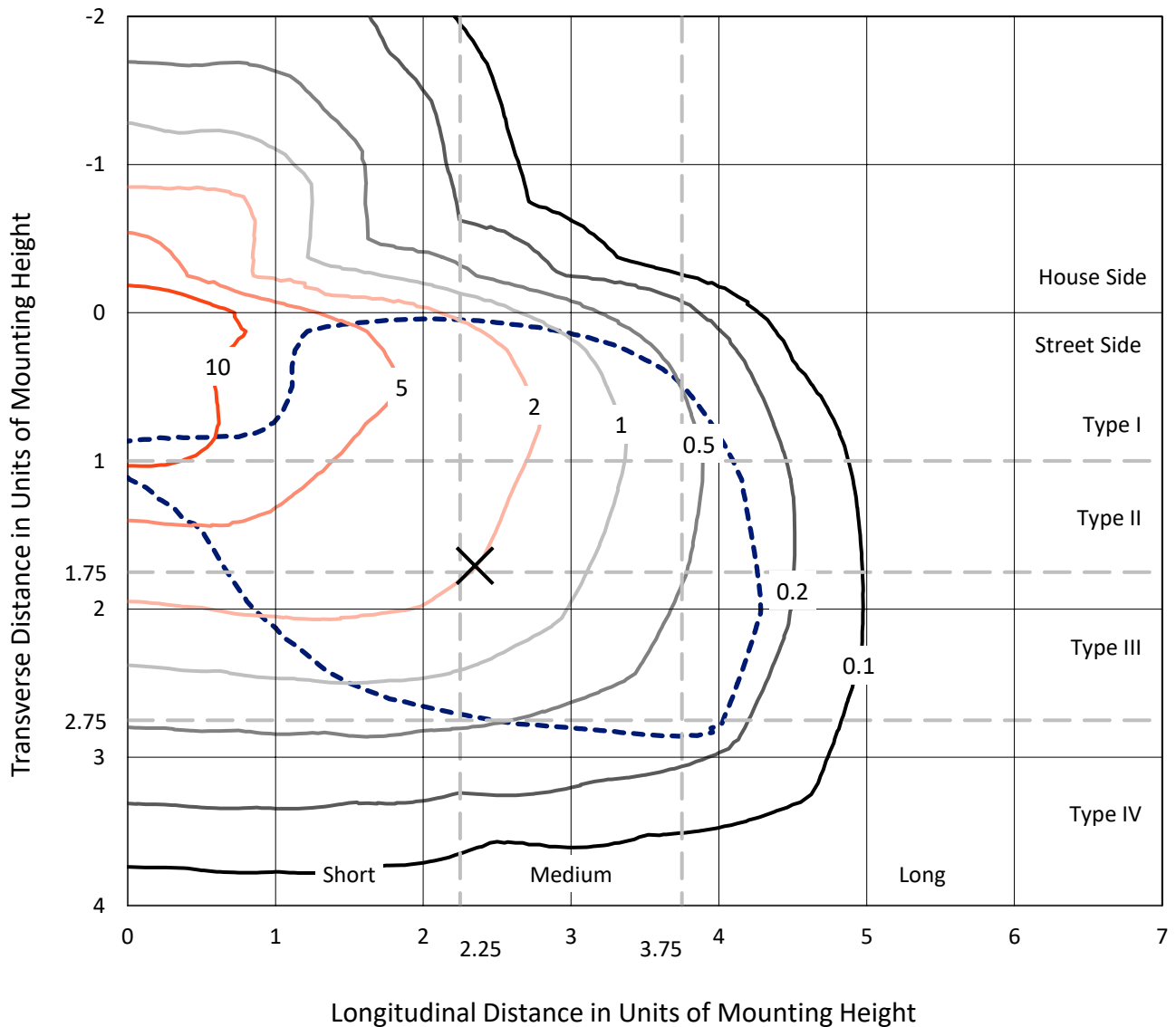
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

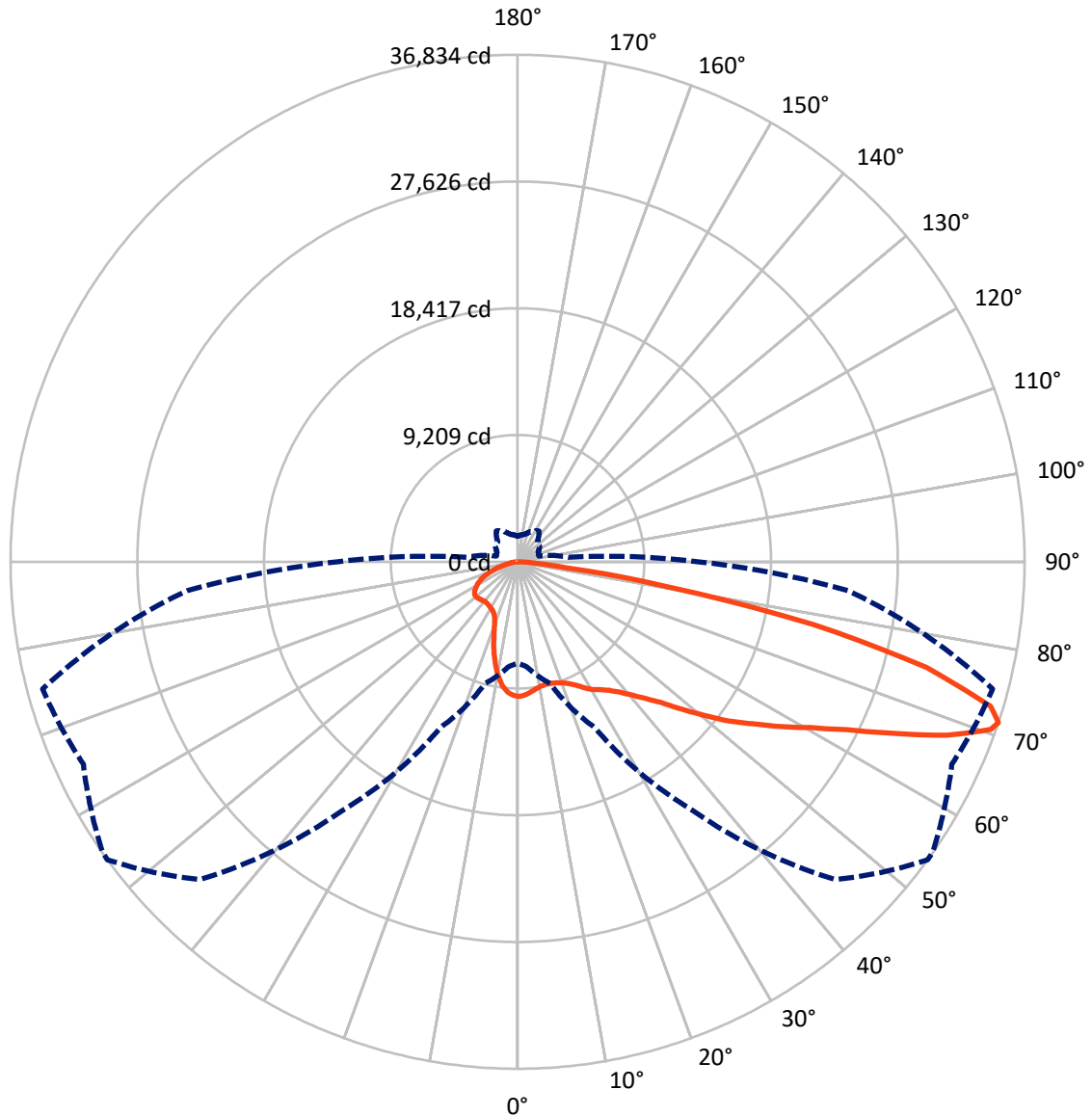
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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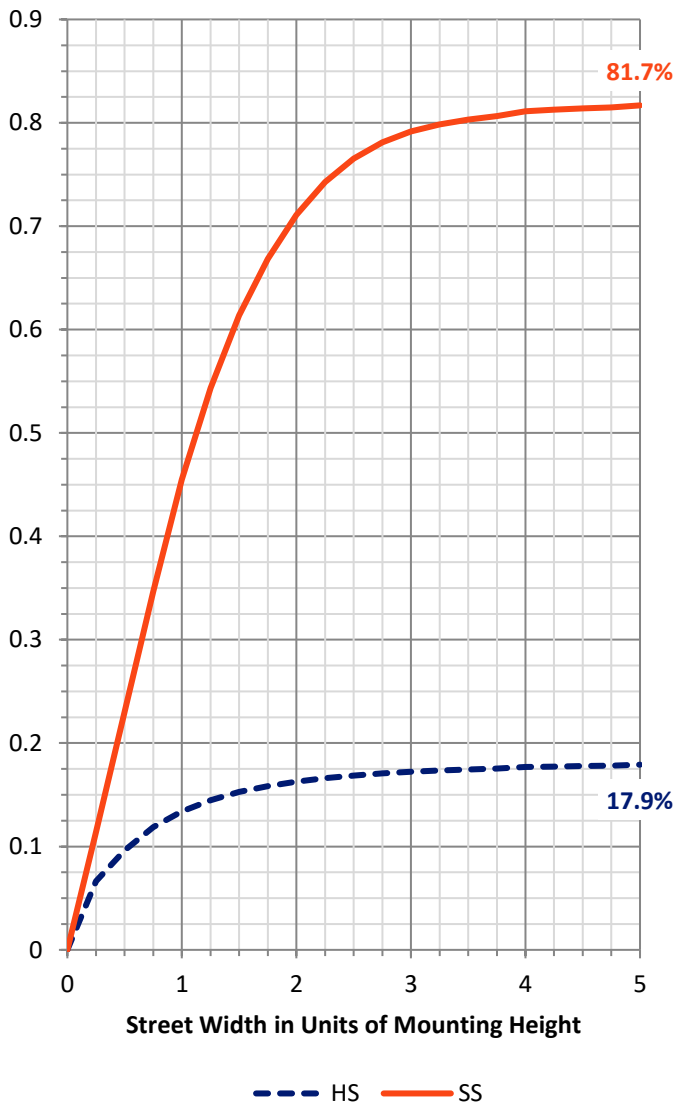
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9903.1	0.0	9903.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	44948.6	0.0	44948.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	54851.7	0.0	54851.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	872.1	1.6
10°-20°	2302.8	4.2
20°-30°	3834.3	7.0
30°-40°	5669.7	10.3
40°-50°	7985.9	14.6
50°-60°	10693.5	19.5
60°-70°	13478.3	24.6
70°-80°	9205.6	16.8
80°-90°	809.6	1.5
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°	54851.7	100.0
0°-180°	54851.7	100.0

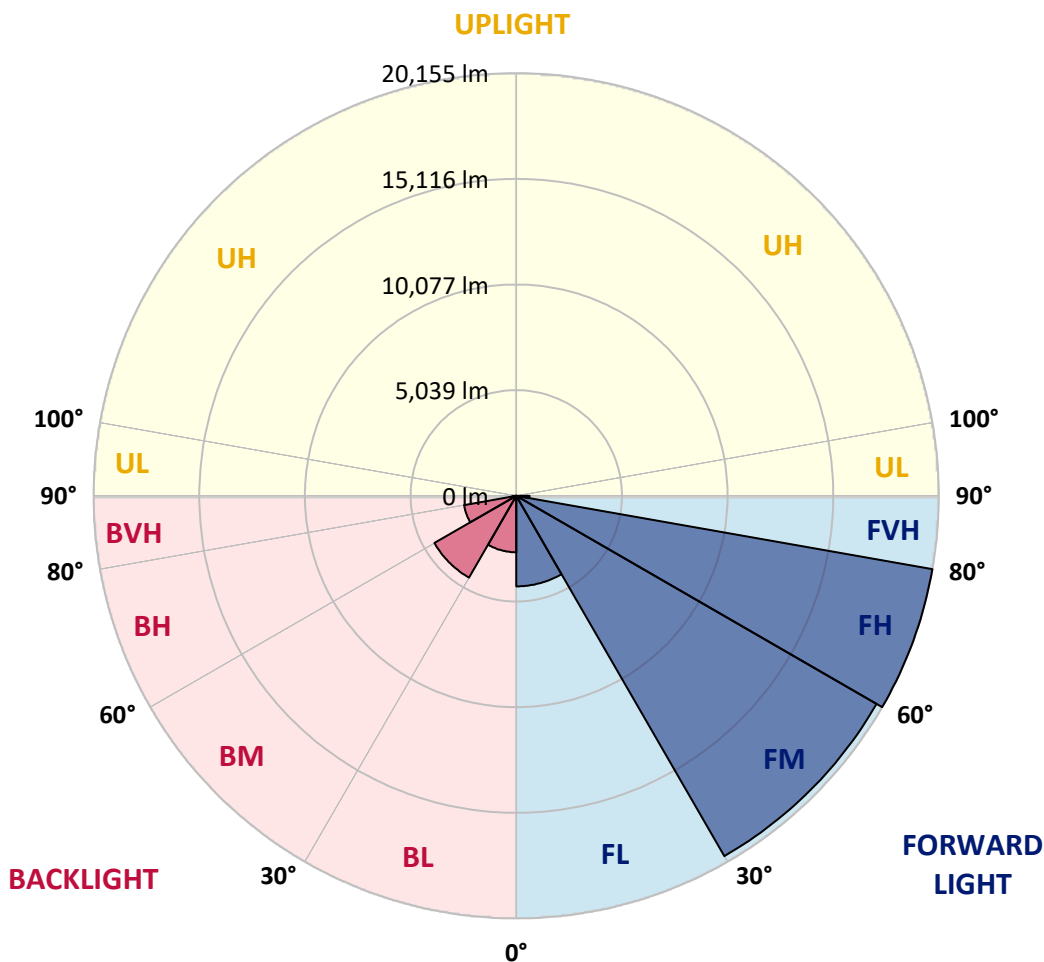


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4317.7	7.9			
FM (30°-60°)	19843.4	36.2			
FH (60°-80°)	20154.7	36.7			G5
FVH (80°-90°)	632.8	1.2			G4/750
BL (0°-30°)	2691.5	4.9	B4/5000		
BM (30°-60°)	4505.6	8.2	B3/5000		
BH (60°-80°)	2529.2	4.6	B4/5000		G4/5000
BVH (80°-90°)	176.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4
2.5°	9454.5	9498.9	9510.8	9540.5	9602.6	9653.0	9703.4	9697.5	9768.6	9798.2	9824.9
5°	9033.8	9045.6	9090.1	9149.3	9259.0	9398.3	9534.5	9537.4	9712.3	9851.6	9919.7
7.5°	8725.6	8764.1	8793.8	8856.0	8971.5	9122.7	9339.0	9356.7	9667.8	9943.4	10088.6
10°	8524.2	8568.6	8601.2	8678.3	8793.8	8962.7	9196.8	9229.3	9635.3	10088.6	10343.4
12.5°	8340.4	8384.9	8414.5	8515.3	8666.4	8873.8	9137.5	9176.0	9647.1	10257.4	10621.9
15°	8453.1	8488.6	8476.8	8506.4	8607.1	8844.1	9161.2	9199.7	9691.5	10420.4	10897.4
17.5°	8953.8	8983.4	8885.7	8773.1	8725.6	8900.5	9235.3	9276.7	9780.4	10589.3	11178.9
20°	9691.5	9771.6	9558.2	9306.3	9078.3	9102.0	9389.3	9433.7	9904.9	10758.2	11466.3
22.5°	10651.5	10710.8	10450.0	10035.2	9614.5	9398.3	9620.5	9647.1	10091.5	10977.4	11780.4
25°	11780.4	11815.9	11454.4	10921.1	10313.8	9904.9	9937.4	9984.9	10399.6	11226.3	12058.8
27.5°	12876.6	12989.2	12571.4	11919.7	11119.6	10438.2	10373.0	10402.7	10734.4	11365.5	12251.4
30°	14177.3	14168.4	13727.0	12971.4	11946.3	11019.0	10784.8	10778.9	10915.2	11433.7	12390.7
32.5°	15214.4	15335.8	14903.2	14079.5	12891.4	11620.3	11069.2	11057.5	11054.4	11552.2	12598.1
35°	16393.5	16411.4	16014.3	15184.7	13913.7	12375.9	11466.3	11407.1	11338.9	11807.1	12879.6
37.5°	17448.3	17531.3	17166.8	16236.5	14918.1	13161.1	12011.5	11973.0	11765.6	12248.5	13329.9
40°	18272.0	18334.2	18115.0	17229.1	15907.7	14008.5	12704.8	12633.7	12381.8	12971.4	13931.4
42.5°	18541.6	18669.0	18755.0	18319.4	17045.4	15012.9	13558.1	13469.2	13276.6	14067.7	14624.7
45°	18562.4	18763.9	19217.2	19237.9	18189.1	16215.7	14553.6	14491.4	14476.6	15472.1	15599.5
47.5°	18405.4	18609.8	19371.3	19783.1	19208.3	17430.6	15990.6	15892.8	15901.7	17208.4	16692.8
50°	18026.1	18269.0	19193.5	20132.7	20005.3	18692.7	17507.6	17475.0	17658.7	19190.5	17827.6
52.5°	17312.1	17605.3	19009.8	20351.9	20597.9	19780.2	19232.0	19140.2	19605.3	21341.6	19069.0
55°	15335.8	15777.2	18337.2	20473.4	21160.8	20820.0	20784.6	20950.5	21566.7	23688.1	20434.9
57.5°	14304.7	14636.6	16876.5	20494.2	21871.9	22028.9	22597.8	22639.3	23717.8	26179.9	21978.5
60°	13741.8	14035.1	16076.6	20357.8	22864.4	23525.2	24452.6	24600.7	25818.4	28879.1	23578.5
62.5°	13250.0	13501.8	15596.5	19886.8	23984.4	25744.4	26855.5	26926.5	28203.5	31859.7	25157.8
65°	12091.5	12378.8	14630.6	19415.7	24950.3	28517.6	30043.5	29960.5	30742.8	34431.5	26147.3
67.5°	10530.1	10894.5	12826.3	17789.1	25427.3	31548.6	33634.4	33530.8	33249.4	36117.3	26431.8
70°	8536.1	8731.6	10518.2	14977.3	23522.2	33139.7	36470.0	36360.3	34801.8	36339.6	25086.6
71°	7345.0	7650.2	9158.2	13303.3	21937.1	32653.8	36834.4	36804.8	34804.8	35726.3	24073.3
72.5°	5733.2	5919.8	7253.1	10307.8	18645.3	29892.4	35933.7	36046.3	34049.3	34022.7	21984.5
75°	3626.6	3709.5	4551.0	6068.0	10230.8	21169.7	30674.5	30979.7	30233.1	27848.0	16349.1
77.5°	2106.6	2213.3	2725.8	3576.2	4420.6	11490.0	21948.9	22280.8	21006.8	15332.9	6693.1
80°	1226.6	1345.2	1795.5	2076.9	2029.6	4263.5	11176.0	11741.9	9096.0	3872.5	1878.5
82.5°	681.5	761.4	1262.2	1265.1	1081.4	1392.5	3516.9	3679.9	2595.5	1561.4	767.4
85°	494.8	560.0	814.8	737.7	518.5	598.5	1223.7	1282.9	1048.9	657.7	248.9
87.5°	174.8	248.9	447.4	355.6	142.2	124.5	352.5	287.4	266.7	183.7	56.3
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°	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4	9786.4
2.5°	9839.7	9845.6	9816.0	9762.7	9709.3	9641.1	9564.1	9504.9	9478.2	9475.3	9472.3
5°	9946.3	9961.1	9848.6	9682.7	9498.9	9273.8	9081.2	8862.0	8805.6	8716.8	8743.5
7.5°	10118.2	10109.3	9887.1	9534.5	9104.9	8627.9	8224.9	7990.8	7747.9	7679.8	7682.7
10°	10364.1	10307.8	9887.1	9232.3	8515.3	7807.2	7244.2	6888.6	6696.0	6536.1	6476.8
12.5°	10624.9	10482.6	9792.3	8808.6	7756.8	6888.6	6284.2	5804.2	5679.8	5549.4	5552.5
15°	10873.7	10636.7	9605.6	8213.0	6939.0	5907.9	5321.3	5033.9	4995.4	5010.2	5007.2
17.5°	11098.9	10746.3	9321.2	7549.4	5985.0	5066.5	4755.4	4776.1	4879.8	4953.9	4962.8
20°	11327.0	10811.5	8897.5	6660.6	5084.3	4556.9	4568.7	4731.7	4888.7	4989.5	5004.3
22.5°	11543.3	10841.2	8399.7	5801.3	4432.5	4340.6	4515.4	4690.3	4844.3	4942.1	4956.9
25°	11685.5	10773.0	7694.6	4903.5	4112.5	4263.5	4447.3	4595.4	4725.7	4826.5	4850.2
27.5°	11724.0	10553.7	6820.5	4177.7	3964.3	4189.5	4358.4	4468.0	4568.7	4663.6	4681.3
30°	11703.4	10230.8	5860.6	3751.0	3878.4	4103.6	4233.9	4313.9	4435.4	4509.5	4524.3
32.5°	11670.7	9854.5	4859.1	3522.9	3807.3	4023.6	4100.6	4171.7	4168.8	4139.1	4159.8
35°	11682.6	9404.1	4047.3	3386.5	3745.1	3964.3	4029.5	3940.6	3685.9	3674.0	3662.1
37.5°	11744.8	8959.7	3457.7	3291.8	3712.5	3955.4	3991.0	3582.1	3356.9	3253.2	3226.6
40°	11904.8	8441.2	3069.6	3220.6	3709.5	4023.6	3816.2	3401.3	2968.8	2767.3	2752.5
42.5°	12118.1	7931.6	2832.5	3176.2	3745.1	4127.3	3745.1	3146.6	2675.5	2557.0	2539.1
45°	12435.2	7347.9	2702.1	3155.4	3798.4	4165.8	3721.3	2959.9	2557.0	2462.1	2462.1
47.5°	12793.6	6790.9	2631.1	3140.6	3866.6	4139.1	3511.0	2900.6	2500.6	2512.5	2568.8
50°	13149.2	6307.9	2577.7	3108.1	3925.8	4124.3	3425.1	2897.7	2515.5	2666.6	2767.3
52.5°	13561.0	5967.2	2512.5	3054.7	3925.8	4029.5	3398.4	2957.0	2557.0	2601.4	2645.9
55°	14058.8	5860.6	2429.6	2939.1	3854.7	3792.5	3383.6	3042.9	2586.6	2482.9	2500.6
57.5°	14716.6	6032.4	2349.6	2794.0	3691.7	3546.6	3377.7	3066.5	2518.5	2432.5	2414.8
60°	15481.0	6373.1	2325.9	2645.9	3469.5	3336.2	3342.1	2998.4	2423.6	2334.7	2349.6
62.5°	16017.3	6577.5	2311.1	2533.3	3226.6	3105.1	3256.2	2915.5	2382.1	2305.1	2319.9
65°	16017.3	6328.7	2174.7	2361.4	2912.5	2826.6	3152.5	2811.8	2328.8	2239.9	2225.1
67.5°	15409.9	5602.8	1967.4	2103.7	2565.8	2509.5	3007.3	2687.3	2248.8	2180.7	2145.1
70°	13827.7	4248.7	1706.6	1801.4	2127.3	2177.7	2820.6	2518.5	2115.5	2032.5	1979.2
71°	13131.5	3700.7	1597.0	1647.4	1958.4	2032.5	2731.7	2447.3	2056.2	1937.7	1842.9
72.5°	11789.2	3116.9	1431.0	1451.8	1674.0	1807.3	2545.1	2311.1	1943.6	1774.8	1668.1
75°	8956.7	2275.5	1152.6	1140.7	1238.5	1434.0	2154.0	2059.2	1703.6	1475.5	1413.3
77.5°	3869.5	1238.5	862.2	871.1	841.4	1087.4	1694.8	1768.8	1460.7	1199.9	1143.7
80°	1173.3	714.1	589.6	601.5	563.0	728.9	1194.1	1386.6	1173.3	933.3	856.3
82.5°	601.5	426.6	402.9	397.0	358.5	411.8	722.9	948.1	838.5	583.7	515.5
85°	260.7	228.2	198.5	192.6	168.9	148.2	257.8	474.1	444.5	325.9	311.1
87.5°	65.2	59.3	38.5	35.6	20.8	2.9	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)