

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: P321983

Luminaire Tested: **GAN-SA9D-750-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49346 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5

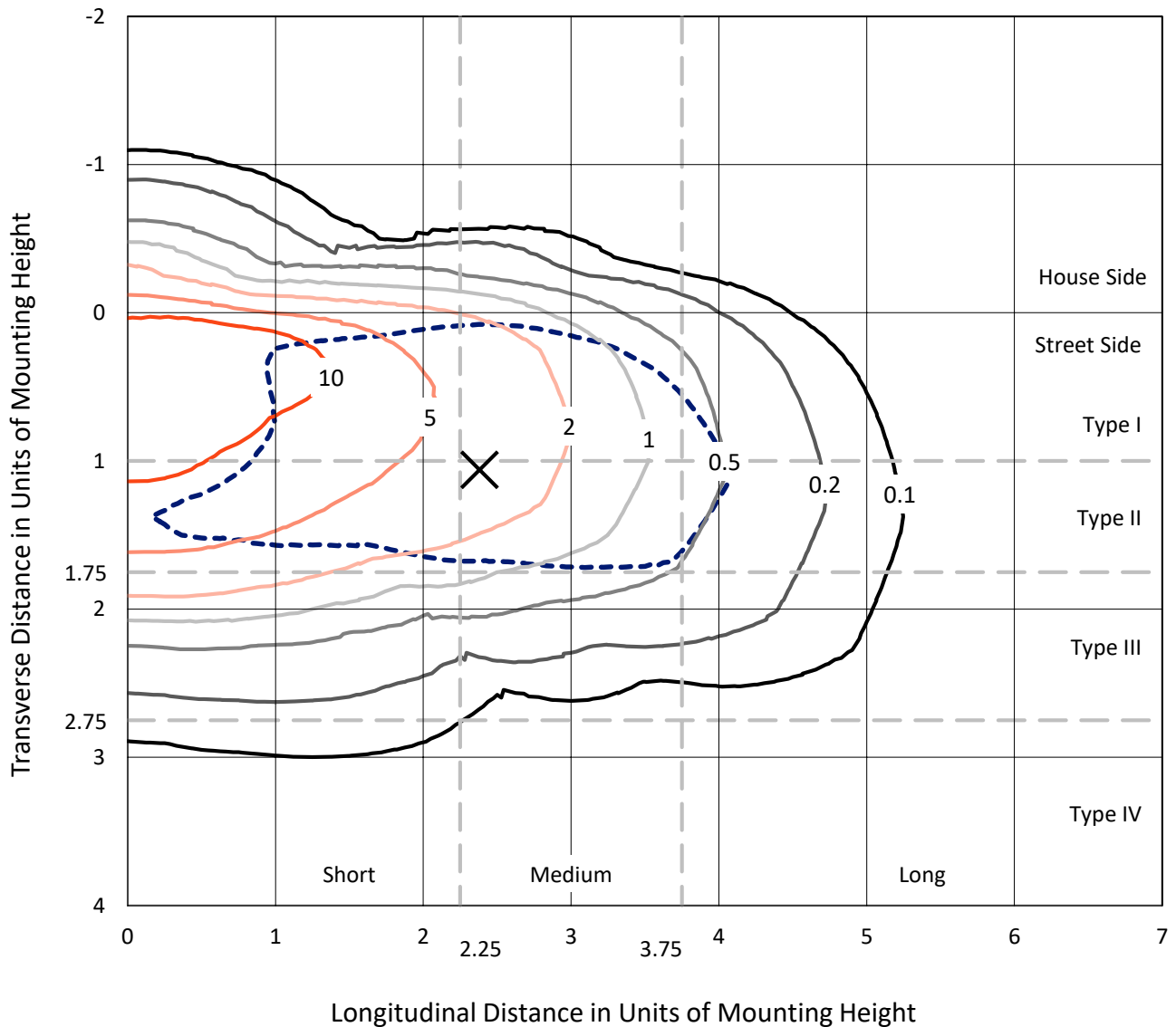
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

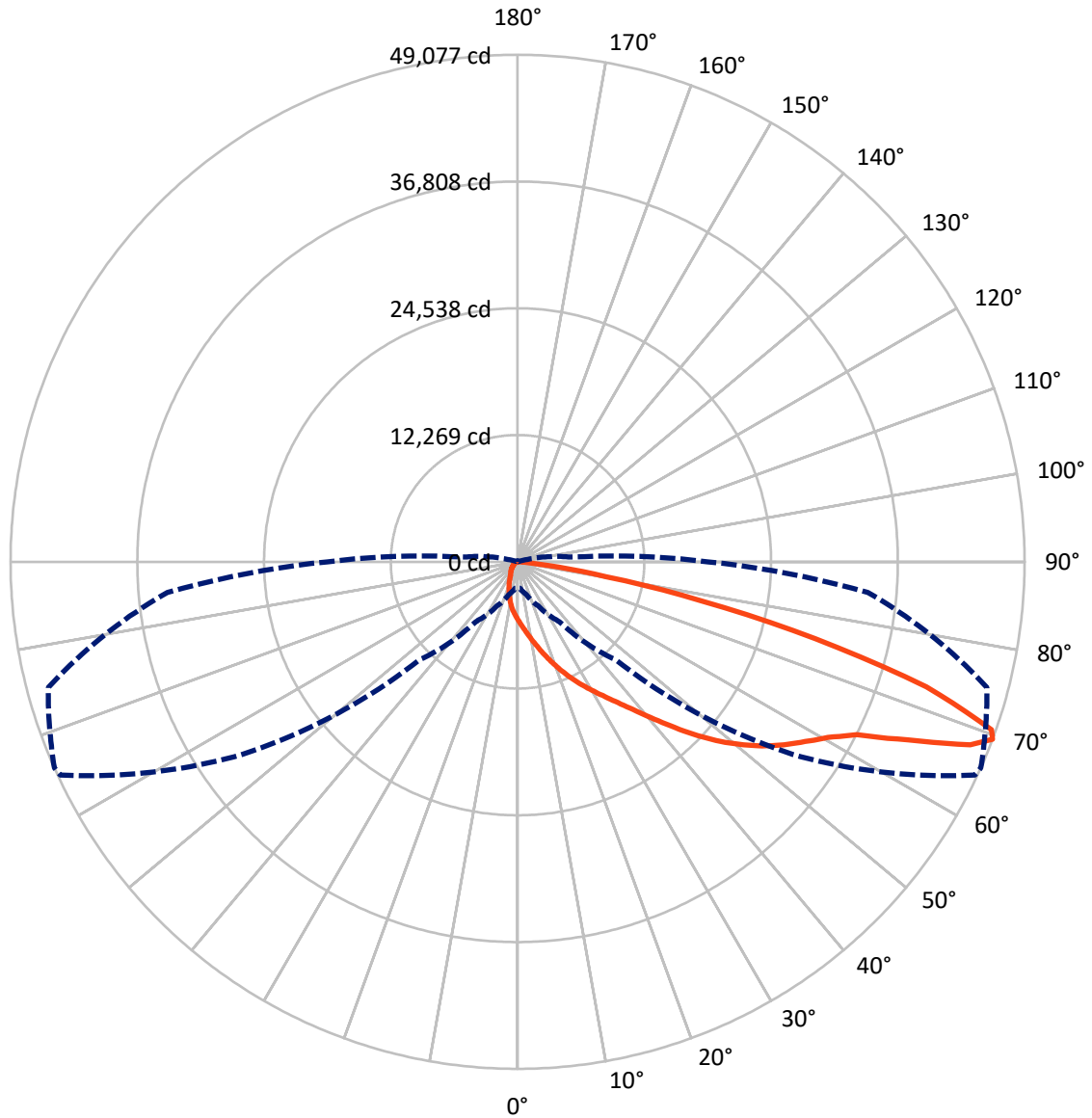
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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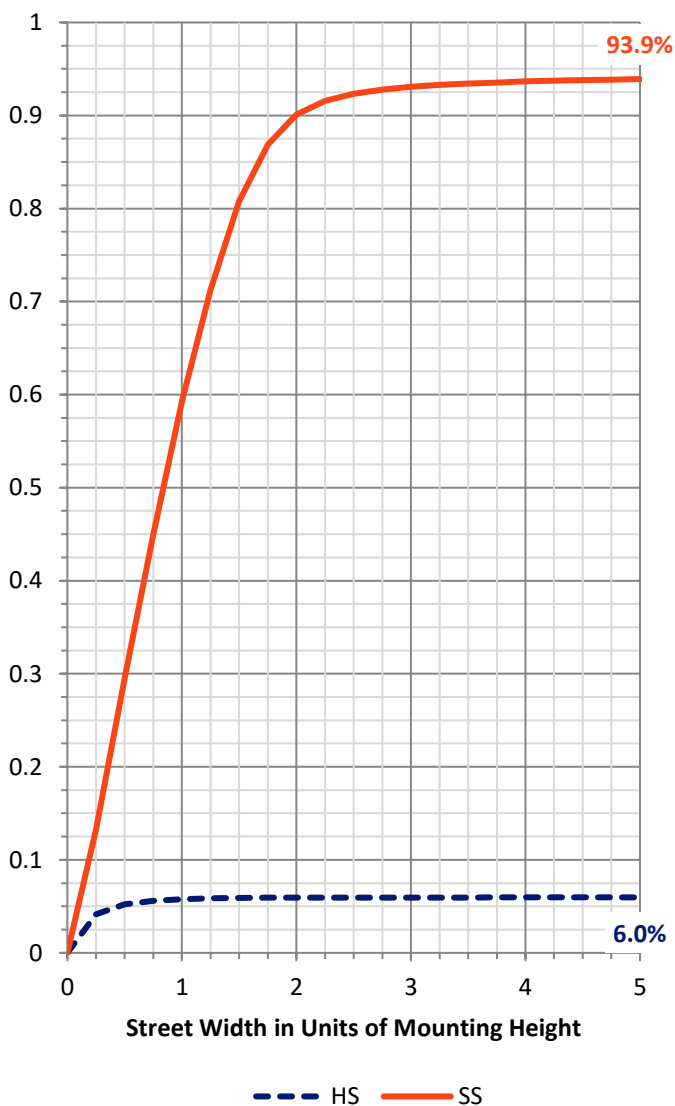
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2960.1	0.0	2960.1
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	46385.9	0.0	46385.9
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	49346.0	0.0	49346.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.8	1.1
10°-20°	1615.6	3.3
20°-30°	2813.3	5.7
30°-40°	4935.9	10.0
40°-50°	8262.0	16.7
50°-60°	12144.4	24.6
60°-70°	12469.2	25.3
70°-80°	6155.7	12.5
80°-90°	407.0	0.8
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°	49346.0	100.0
0°-180°	49346.0	100.0

**Coefficient of Utilization**

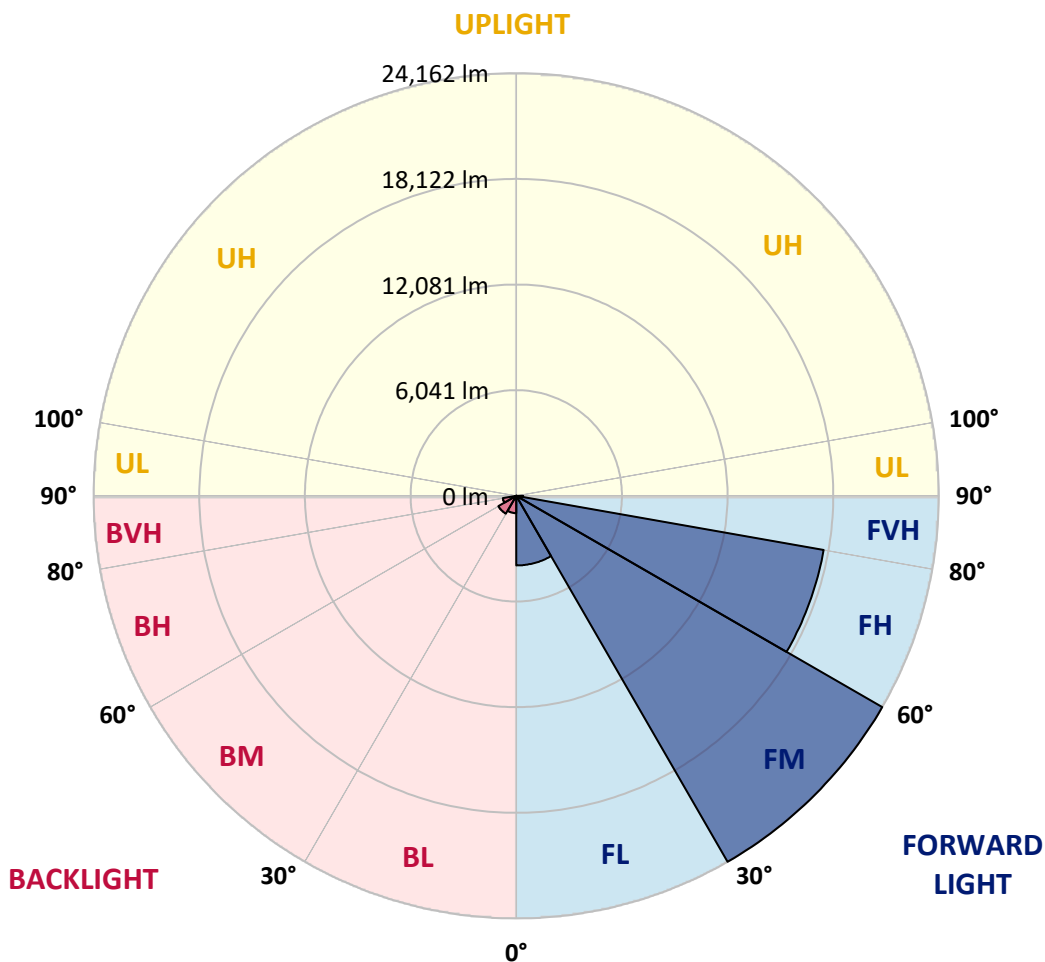


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3981.7	8.1			
FM (30°-60°)	24162.2	49.0			
FH (60°-80°)	17844.8	36.2			G5
FVH (80°-90°)	397.2	0.8			G3/500
BL (0°-30°)	990.0	2.0	B2/1000		
BM (30°-60°)	1180.2	2.4	B2/2500		
BH (60°-80°)	780.1	1.6	B2/1000		G2/1000
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7
2.5°	6609.5	6581.4	6569.7	6518.1	6429.0	6361.1	6229.8	6077.5	6049.3	5901.7	5721.2
5°	7467.3	7443.9	7427.5	7354.8	7263.4	7092.3	6853.3	6569.7	6515.8	6234.5	5873.6
7.5°	8065.0	8107.2	8107.2	8060.3	7945.5	7816.6	7523.6	7136.9	7068.9	6637.6	6077.5
10°	8414.2	8465.8	8505.6	8545.5	8529.1	8477.5	8200.9	7765.0	7683.0	7111.1	6314.2
12.5°	8447.0	8498.6	8611.1	8777.5	8939.2	9056.4	8883.0	8461.1	8367.3	7659.5	6595.4
15°	8264.2	8318.1	8491.6	8815.0	9206.4	9548.6	9604.9	9232.2	9136.1	8313.4	6947.0
17.5°	7945.5	7980.6	8229.1	8676.7	9290.8	9918.9	10258.8	10059.6	9970.5	9061.1	7338.4
20°	7708.7	7734.5	7952.5	8433.0	9239.2	10151.0	10877.6	10938.5	10844.7	9862.7	7762.6
22.5°	8114.2	8161.1	8168.1	8395.5	9098.6	10265.8	11421.3	11803.4	11733.0	10713.5	8179.8
25°	9222.8	9276.7	9098.6	8958.0	9218.1	10317.4	11887.7	12689.3	12633.1	11629.9	8599.4
27.5°	10687.7	10744.0	10514.3	10094.7	9843.9	10511.9	12302.6	13589.3	13587.0	12600.2	9051.7
30°	12126.8	12183.0	11948.7	11529.1	10952.6	11062.7	12661.2	14531.5	14545.6	13601.0	9532.2
32.5°	13636.2	13706.5	13465.1	12926.0	12323.7	12014.3	13165.1	15478.4	15558.1	14761.2	10073.6
35°	15351.9	15361.2	15021.4	14456.5	13762.8	13287.0	13973.7	16540.2	16730.0	16198.0	10760.4
37.5°	17034.7	17102.7	16823.8	15933.1	15295.6	14756.5	15176.1	17866.8	18136.3	17953.5	11658.0
40°	18281.6	18424.6	18384.7	17423.8	16819.1	16434.7	16669.1	19444.1	19786.3	19997.3	12790.1
42.5°	19064.4	19172.2	19355.1	18776.1	18227.7	18291.0	18431.6	21281.7	21703.5	22327.0	14090.9
45°	19962.1	20013.7	20166.0	19910.5	19540.2	20177.7	20302.0	23351.2	23794.2	24832.5	15534.7
47.5°	21059.0	21180.9	21223.1	20988.7	20819.9	21846.5	22104.3	25233.3	25854.4	27516.2	17062.8
50°	22455.9	22488.7	22561.4	22409.0	22240.3	23280.9	23721.6	27209.1	27774.0	30209.2	18569.9
52.5°	23822.3	23939.5	24192.7	24096.6	24028.6	24502.0	25163.0	28990.4	29620.9	32454.5	20074.6
55°	24216.1	24316.9	25191.1	25788.8	26341.9	26006.8	26541.1	30586.5	31268.6	34460.8	21523.1
57.5°	22643.4	22847.3	24361.4	25917.7	28212.3	28345.9	28434.9	32224.8	32836.6	35998.4	23030.1
60°	18668.3	18708.2	21192.6	23862.2	27902.9	30387.3	31200.6	33985.0	34498.3	37430.4	24834.9
62.5°	11873.7	12279.1	15005.0	18773.8	24630.9	30092.0	34545.2	36647.6	36835.1	39148.4	27422.4
65°	5655.6	5918.1	7882.2	11599.4	17841.0	26311.4	36853.8	41464.1	41548.5	42553.9	30879.5
67.5°	3131.3	3257.9	4193.0	6243.9	10429.9	18607.4	35921.0	47168.9	47248.6	46032.1	33912.4
69°	2449.3	2557.1	3293.0	4706.3	7071.2	13373.7	32506.1	48840.0	49076.7	47028.3	34020.2
70°	2078.9	2184.4	2836.0	3975.1	5686.0	10333.8	28934.2	48425.2	48675.9	46934.5	33216.3
72.5°	1272.7	1333.6	1889.1	2798.5	3811.0	5198.5	17843.3	40953.1	41377.4	43053.2	28547.4
75°	857.8	890.6	1181.3	1931.3	2725.8	2676.6	9269.7	28866.2	29784.9	33490.5	21084.8
77.5°	614.1	644.5	792.2	1249.2	1910.2	1767.2	4197.7	17939.4	18136.3	20086.3	11498.7
80°	349.2	377.4	560.2	743.0	1296.1	1178.9	1668.8	8568.9	8667.4	8613.4	3839.1
82.5°	182.8	206.3	307.0	489.9	832.0	771.1	693.8	2868.8	2882.9	2397.7	841.4
85°	35.2	42.2	152.3	335.2	428.9	335.2	283.6	672.7	686.7	607.0	208.6
87.5°	0.0	2.3	60.9	75.0	84.4	86.7	91.4	131.3	140.6	189.8	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°	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7	5615.7
2.5°	5641.5	5557.1	5395.4	5207.9	5062.6	4919.6	4807.1	4689.9	4647.7	4626.7	4624.3
5°	5697.8	5519.6	5177.4	4825.9	4537.6	4265.7	4071.2	3886.0	3799.3	3759.4	3743.0
7.5°	5791.5	5505.6	4954.8	4418.1	4003.2	3663.4	3393.8	3192.2	3091.5	3049.3	3032.9
10°	5901.7	5486.8	4694.6	3986.8	3457.1	3105.5	2838.3	2639.1	2529.0	2482.1	2458.6
12.5°	6030.6	5454.0	4394.6	3550.8	2990.7	2639.1	2315.7	2069.6	1943.0	1889.1	1863.3
15°	6190.0	5421.2	4080.5	3140.7	2580.5	2151.6	1797.7	1631.3	1605.5	1596.1	1598.5
17.5°	6347.0	5369.6	3738.4	2735.2	2149.3	1680.5	1500.0	1490.7	1495.3	1495.3	1495.3
20°	6487.6	5252.4	3365.7	2388.3	1739.1	1418.0	1380.5	1364.1	1352.4	1343.0	1331.3
22.5°	6597.8	5095.4	3007.1	2043.8	1420.3	1298.5	1239.9	1188.3	1146.1	1118.0	1103.9
25°	6672.8	4886.8	2679.0	1713.3	1277.4	1181.3	1075.8	989.1	923.5	883.6	867.2
27.5°	6729.0	4661.8	2386.0	1434.4	1178.9	1045.3	907.0	803.9	736.0	700.8	686.7
30°	6768.9	4406.3	2128.2	1261.0	1068.8	902.4	754.7	653.9	604.7	585.9	576.6
32.5°	6806.4	4122.7	1884.4	1178.9	965.6	771.1	632.8	555.5	525.0	501.6	494.5
35°	6900.1	3860.2	1652.4	1092.2	860.2	658.6	543.8	487.5	457.0	443.0	438.3
37.5°	7122.8	3665.7	1429.7	1003.1	754.7	569.5	475.8	435.9	407.8	393.8	389.1
40°	7481.4	3567.3	1242.2	907.0	651.6	501.6	431.3	393.8	363.3	342.2	337.5
42.5°	8008.7	3581.3	1111.0	811.0	569.5	447.7	389.1	344.5	311.7	293.0	288.3
45°	8648.6	3684.4	1019.6	717.2	501.6	405.5	342.2	295.3	264.8	248.4	243.8
47.5°	9342.4	3850.9	944.5	632.8	447.7	365.6	295.3	246.1	220.3	206.3	203.9
50°	10073.6	4012.6	867.2	550.8	400.8	325.8	248.4	203.9	182.8	171.1	166.4
52.5°	10814.3	4200.1	796.9	475.8	360.9	278.9	206.3	166.4	150.0	140.6	135.9
55°	11611.2	4340.7	728.9	417.2	321.1	236.7	171.1	138.3	124.2	112.5	110.2
57.5°	12548.7	4558.7	658.6	360.9	274.2	196.9	140.6	110.2	98.4	86.7	84.4
60°	13814.3	4814.2	583.6	318.8	225.0	161.7	114.8	89.1	75.0	65.6	63.3
62.5°	15483.1	5097.8	489.9	278.9	182.8	131.3	91.4	70.3	53.9	42.2	42.2
65°	17599.6	5559.5	400.8	234.4	150.0	107.8	70.3	51.6	30.5	18.8	18.8
67.5°	18834.7	5639.2	323.4	192.2	121.9	91.4	58.6	35.2	9.4	2.3	0.0
69°	18438.6	5177.4	274.2	164.1	105.5	86.7	53.9	25.8	4.7	0.0	0.0
70°	17693.3	4734.5	241.4	145.3	96.1	82.0	51.6	18.8	4.7	0.0	0.0
72.5°	14620.6	3370.4	182.8	107.8	70.3	72.7	46.9	11.7	4.7	0.0	0.0
75°	10650.2	2048.5	131.3	75.0	44.5	53.9	32.8	4.7	2.3	0.0	0.0
77.5°	5925.1	965.6	82.0	42.2	28.1	32.8	16.4	0.0	0.0	0.0	0.0
80°	1924.3	262.5	37.5	23.4	16.4	18.8	7.0	0.0	0.0	0.0	0.0
82.5°	356.3	75.0	21.1	11.7	4.7	4.7	0.0	0.0	0.0	0.0	0.0
85°	77.3	30.5	11.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.8	9.4	2.3	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)