

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: P382624

Luminaire Tested: **GAN-SA0A-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0A-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31143.5 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

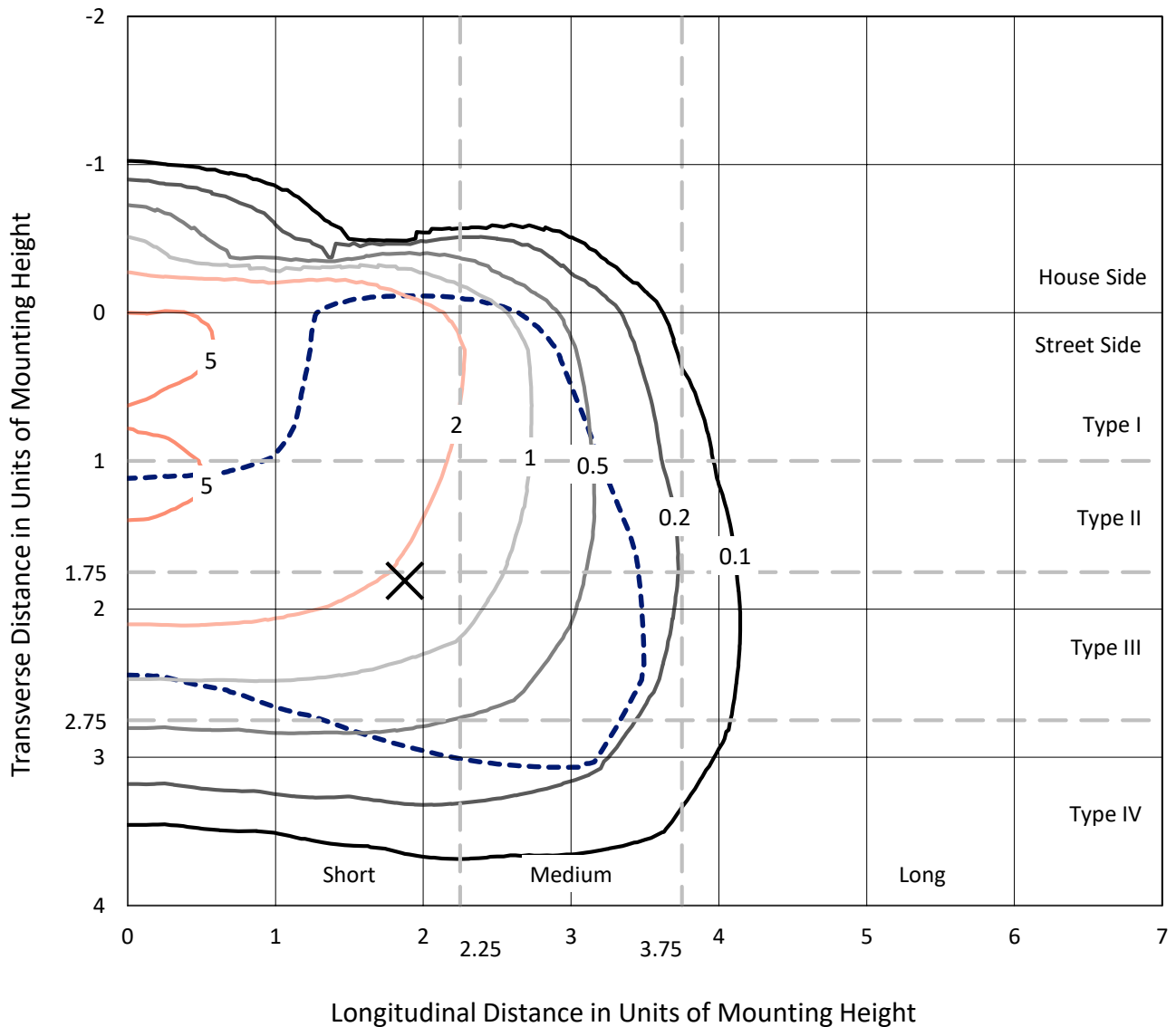
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

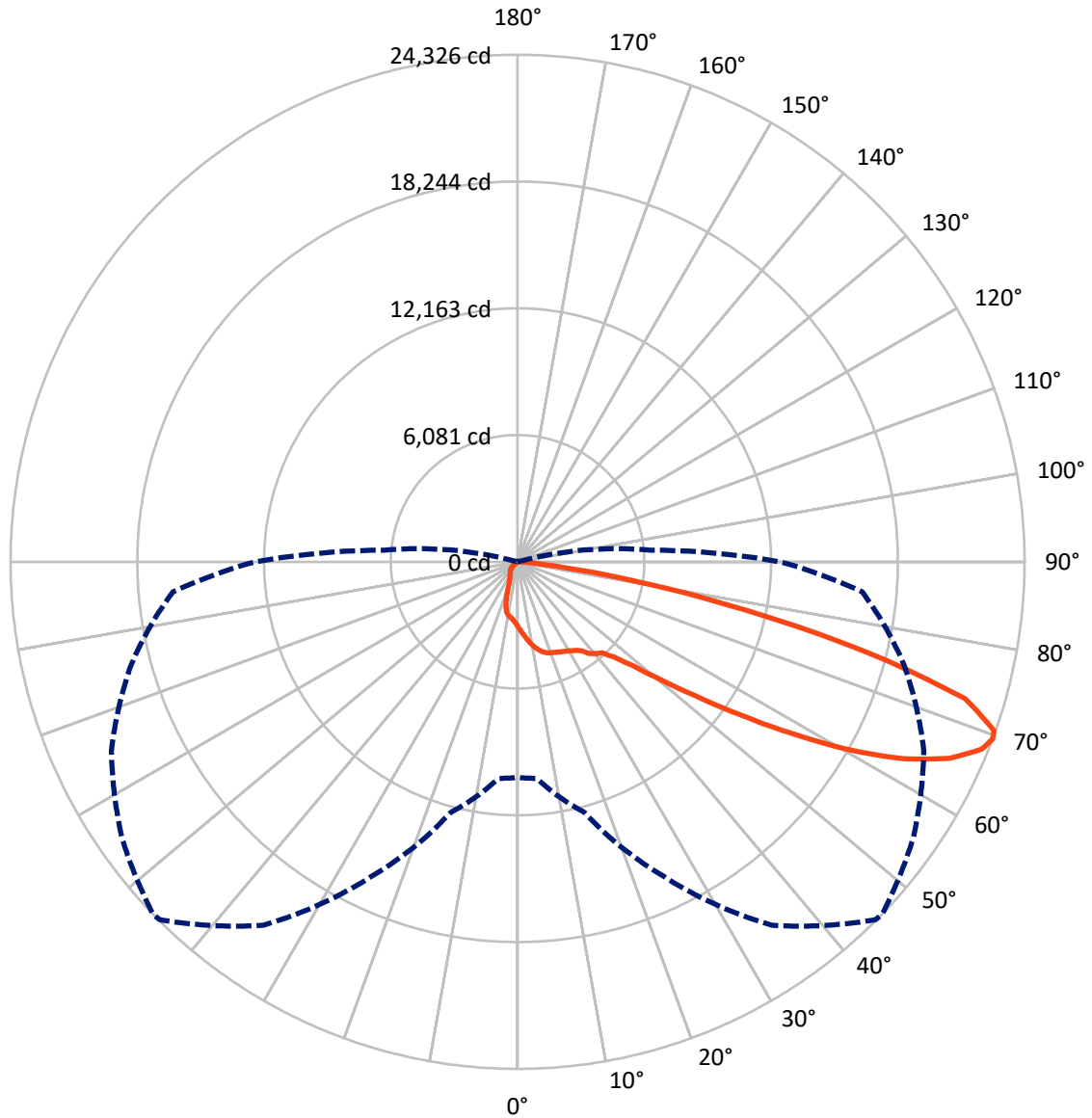
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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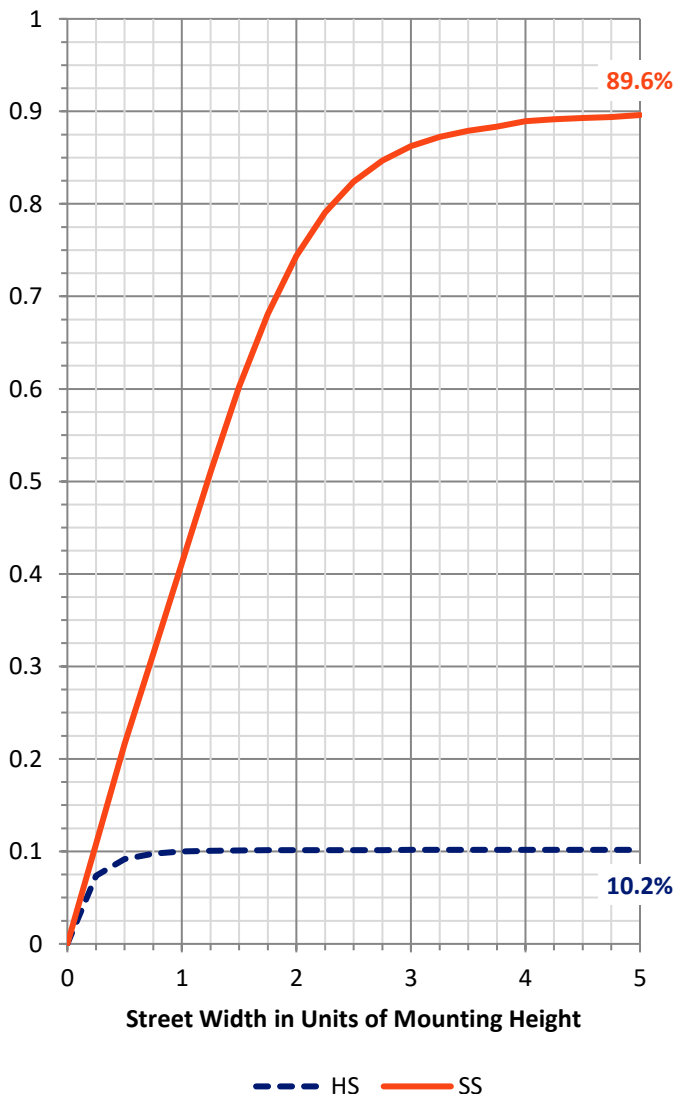
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3196.2	0.0	3196.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	27947.3	0.0	27947.3
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	31143.5	0.0	31143.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.6	1.0
10°-20°	942.3	3.0
20°-30°	1481.9	4.8
30°-40°	2125.0	6.8
40°-50°	3672.8	11.8
50°-60°	7256.0	23.3
60°-70°	10140.9	32.6
70°-80°	4899.2	15.7
80°-90°	314.9	1.0
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°	31143.5	100.0
0°-180°	31143.5	100.0

**Coefficient of Utilization**



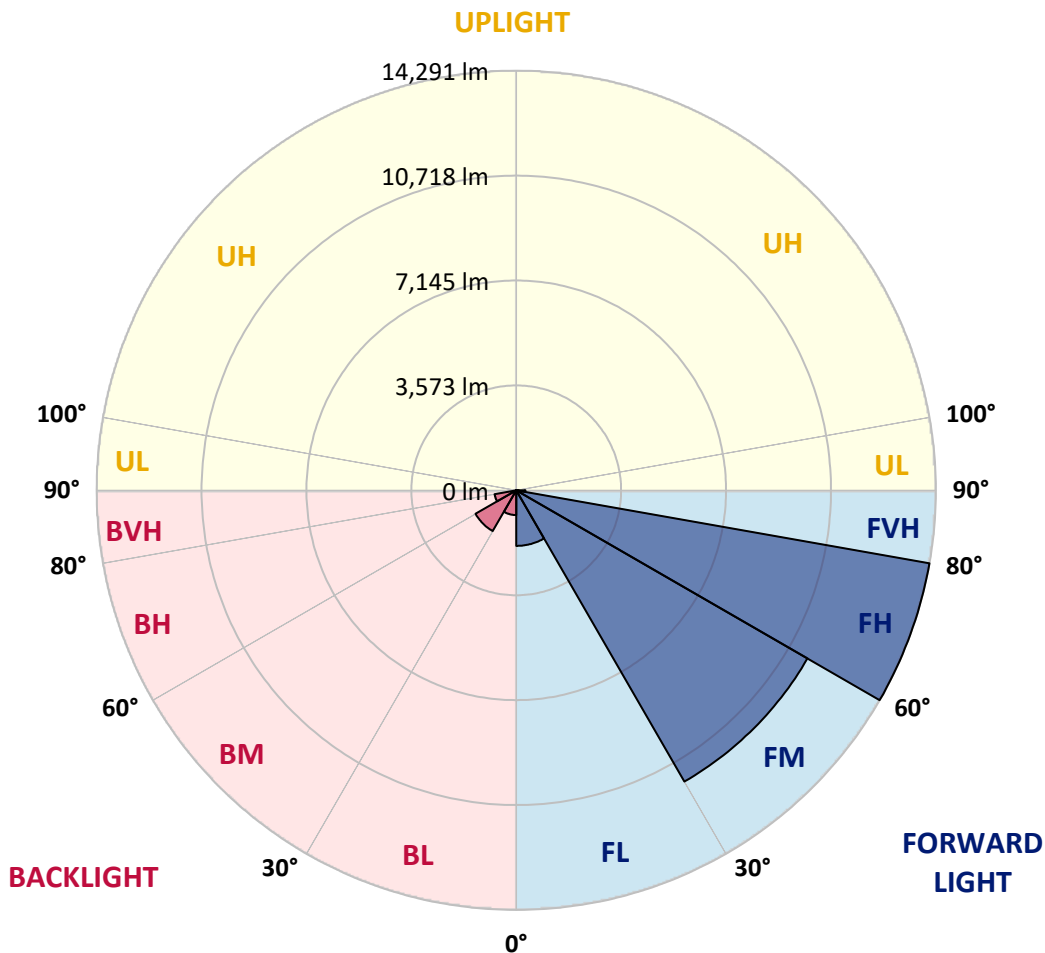
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.3	6.1			
FM (30°-60°)	11452.2	36.8			
FH (60°-80°)	14290.6	45.9			G5
FVH (80°-90°)	312.2	1.0			G3/500
BL (0°-30°)	842.4	2.7	B2/1000		
BM (30°-60°)	1601.7	5.1	B2/2500		
BH (60°-80°)	749.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5
2.5°	3466.6	3462.2	3441.7	3432.9	3383.3	3354.1	3342.4	3305.9	3253.3	3200.8	3142.4
5°	3860.8	3859.3	3821.4	3784.9	3691.4	3603.8	3587.8	3503.0	3384.8	3273.7	3162.8
7.5°	4263.8	4244.8	4206.9	4136.7	4001.0	3860.8	3847.7	3727.9	3560.0	3399.4	3240.2
10°	4605.5	4593.8	4544.2	4437.6	4278.4	4119.2	4103.2	3955.7	3765.9	3568.8	3365.8
12.5°	4871.2	4862.5	4796.8	4663.9	4494.5	4329.6	4307.6	4176.2	3973.2	3752.7	3513.2
15°	5033.3	5029.0	4948.7	4807.0	4640.5	4497.4	4478.4	4363.1	4174.7	3944.0	3673.8
17.5°	5071.3	5072.7	4989.6	4846.5	4709.2	4607.0	4592.3	4504.8	4347.1	4117.8	3834.5
20°	4986.6	5004.1	4929.7	4805.6	4720.8	4666.9	4655.1	4602.6	4469.7	4253.5	3963.0
22.5°	4866.9	4875.6	4824.5	4741.3	4706.3	4716.4	4710.6	4681.4	4569.0	4370.4	4090.1
25°	4793.8	4793.8	4763.2	4693.1	4716.4	4779.2	4780.7	4774.8	4685.8	4513.5	4244.8
27.5°	4790.9	4782.2	4747.2	4694.5	4758.8	4855.2	4861.0	4900.5	4845.0	4687.3	4437.6
30°	4907.8	4897.5	4823.1	4754.4	4836.2	4939.9	4954.4	5040.6	5012.8	4875.6	4652.2
32.5°	5180.8	5144.3	4979.3	4866.9	4928.2	5052.3	5071.3	5208.6	5252.3	5107.8	4859.6
35°	5554.6	5439.3	5201.3	5080.1	5085.9	5215.8	5233.3	5434.9	5564.9	5321.0	5020.2
37.5°	6070.1	6013.1	5626.2	5302.0	5328.3	5525.4	5576.5	5795.5	5759.0	5437.8	5202.7
40°	7200.3	7111.2	6699.4	5924.1	5560.5	5776.6	5792.6	5909.5	5912.3	5702.1	5582.4
42.5°	8739.3	8702.8	8269.2	7052.8	6017.5	5944.5	5973.7	6170.9	6391.3	6259.9	6254.0
45°	10443.4	10424.4	9964.5	8551.0	6941.8	6495.0	6531.5	6795.8	7217.8	7247.0	7432.4
47.5°	11814.5	11805.8	11541.5	10222.9	8356.7	7428.1	7439.7	7720.1	8461.9	8828.4	9124.8
50°	13064.5	13106.8	12898.0	12032.1	10284.2	8889.8	8862.0	9048.9	10240.4	10840.6	11208.6
52.5°	14802.1	14862.0	14276.4	13720.1	12306.6	10703.3	10681.4	10877.1	12378.2	12827.9	12893.6
55°	16336.8	16234.5	15771.7	15611.1	14772.9	12943.3	12937.4	13109.8	14445.8	14637.1	14758.3
57.5°	17014.3	16974.9	17198.3	17566.3	17356.0	15590.7	15577.5	15446.1	16295.9	16316.3	16688.7
60°	17442.2	17490.4	18175.2	19309.8	19834.0	18439.5	18354.8	17553.2	18062.8	18017.5	18416.1
62.5°	17120.9	17215.8	18448.3	20339.2	21688.5	20926.2	20806.5	19483.5	19572.7	19416.3	19787.3
65°	15415.4	15562.9	17582.3	20145.0	22608.4	22869.8	22748.6	21187.6	20771.5	20514.4	20308.6
67.5°	12516.9	12604.5	14713.0	18455.5	22193.7	24029.2	24004.3	22681.4	21676.7	20329.0	18731.6
69°	10344.1	10430.3	12459.9	16677.0	21281.0	24277.4	24325.6	23160.3	21504.5	19201.7	16596.7
70°	8761.2	8853.2	10744.2	15152.6	20222.4	24162.0	24248.2	23115.0	21011.0	17896.3	14723.3
72.5°	4595.2	4674.1	6614.7	10439.0	16485.7	22186.4	22447.8	21161.3	17810.2	12997.3	8705.8
75°	1444.2	1489.5	2583.1	5456.8	11287.4	17250.9	17310.8	16599.6	12646.9	7149.2	3625.7
77.5°	550.5	537.3	860.1	2010.7	5706.5	10862.5	11229.0	10373.3	6636.6	2527.7	836.7
80°	296.4	297.9	446.9	832.3	2441.5	5582.4	5891.9	5027.5	2358.2	788.6	192.7
82.5°	128.5	134.3	251.1	441.0	1121.4	2058.9	2213.6	1842.8	901.0	530.1	71.5
85°	27.8	30.6	121.2	239.5	457.0	578.2	606.0	597.2	573.8	411.7	27.8
87.5°	0.0	0.0	54.0	86.2	115.3	131.4	115.3	150.4	316.8	277.4	14.6
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°	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5	3120.5
2.5°	3123.4	3097.1	3051.8	3002.2	2967.2	2930.6	2901.4	2888.3	2873.7	2863.5	2876.6
5°	3117.5	3066.5	2978.8	2894.1	2832.8	2783.2	2742.3	2726.2	2710.2	2698.5	2697.0
7.5°	3168.7	3097.1	2962.8	2838.6	2743.7	2676.5	2621.1	2597.7	2578.7	2570.0	2562.7
10°	3266.5	3174.5	2994.9	2832.8	2710.2	2596.2	2476.5	2384.5	2324.7	2296.9	2286.7
12.5°	3393.5	3278.2	3056.2	2863.5	2685.3	2466.3	2212.2	1993.1	1851.5	1804.8	1777.1
15°	3542.5	3399.4	3136.5	2902.9	2594.8	2194.7	1763.9	1477.7	1346.3	1320.0	1290.8
17.5°	3685.6	3527.9	3232.9	2910.2	2396.2	1753.7	1292.2	1098.1	1047.0	1064.5	1068.9
20°	3811.1	3654.9	3327.8	2846.0	2035.5	1315.6	1000.2	952.0	971.0	1004.6	1010.4
22.5°	3938.2	3777.5	3415.4	2676.5	1574.1	998.8	901.0	912.6	931.6	965.2	971.0
25°	4092.9	3926.5	3497.2	2365.6	1181.3	849.9	855.7	873.2	892.1	922.9	925.8
27.5°	4271.1	4114.8	3551.2	1961.1	876.1	781.2	800.2	826.5	845.5	874.6	880.5
30°	4507.7	4363.1	3568.8	1542.0	734.5	719.9	728.7	760.8	788.6	814.8	819.2
32.5°	4729.7	4608.5	3510.4	1163.8	680.5	662.9	662.9	681.9	714.0	738.9	744.7
35°	4934.0	4855.2	3323.4	851.3	639.6	610.3	595.7	595.7	616.2	636.6	642.5
37.5°	5204.2	5201.3	3021.2	679.0	600.1	566.6	535.9	512.5	505.3	509.6	512.5
40°	5667.1	5671.4	2626.9	609.0	566.6	521.3	474.5	432.2	392.8	379.7	378.2
42.5°	6389.9	6324.2	2213.6	575.3	537.3	474.5	404.5	347.6	286.2	267.3	265.8
45°	7537.6	7147.7	1775.6	544.7	506.7	422.0	334.4	257.0	207.4	192.7	192.7
47.5°	9209.6	8229.8	1375.5	511.0	465.8	362.1	252.6	185.5	151.8	144.6	146.1
50°	10938.4	9289.9	1054.2	468.8	416.1	299.3	186.9	134.3	115.3	115.3	116.8
52.5°	12471.7	10066.7	822.1	423.5	354.8	235.1	141.6	105.2	96.4	94.9	96.4
55°	13907.0	10567.5	629.4	370.8	281.8	175.2	108.1	86.2	80.3	77.4	75.9
57.5°	15291.3	10815.7	471.6	299.3	204.5	127.1	86.2	73.0	67.2	62.8	61.3
60°	16212.7	10614.2	324.2	220.5	141.6	92.0	71.5	62.8	55.5	51.1	49.7
62.5°	16732.6	10063.8	208.9	159.2	100.8	68.7	56.9	52.5	42.4	38.0	38.0
65°	16522.2	9155.5	146.1	113.9	73.0	51.1	42.4	42.4	30.6	24.8	23.4
67.5°	14641.5	7734.7	110.9	84.7	52.5	38.0	32.1	36.5	19.0	11.6	11.6
69°	12597.2	6410.4	94.9	70.1	43.8	30.6	27.8	33.6	13.1	8.8	7.3
70°	10948.7	5529.8	86.2	61.3	36.5	26.3	24.8	32.1	13.1	7.3	5.9
72.5°	6550.5	3084.0	65.7	43.8	23.4	20.4	20.4	36.5	13.1	7.3	5.9
75°	2647.4	1086.4	48.2	30.6	17.5	17.5	24.8	46.8	11.6	5.9	4.4
77.5°	600.1	238.0	27.8	19.0	11.6	17.5	29.3	36.5	7.3	2.9	0.0
80°	146.1	58.4	17.5	11.6	7.3	13.1	21.9	20.4	1.5	0.0	0.0
82.5°	48.2	20.4	7.3	5.9	1.5	4.4	10.2	5.9	0.0	0.0	0.0
85°	20.4	11.6	2.9	1.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0
87.5°	13.1	4.4	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)