

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: P383404

Luminaire Tested: **GAN-SA7A-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383404  
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-SA7A-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 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: 23616.6 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

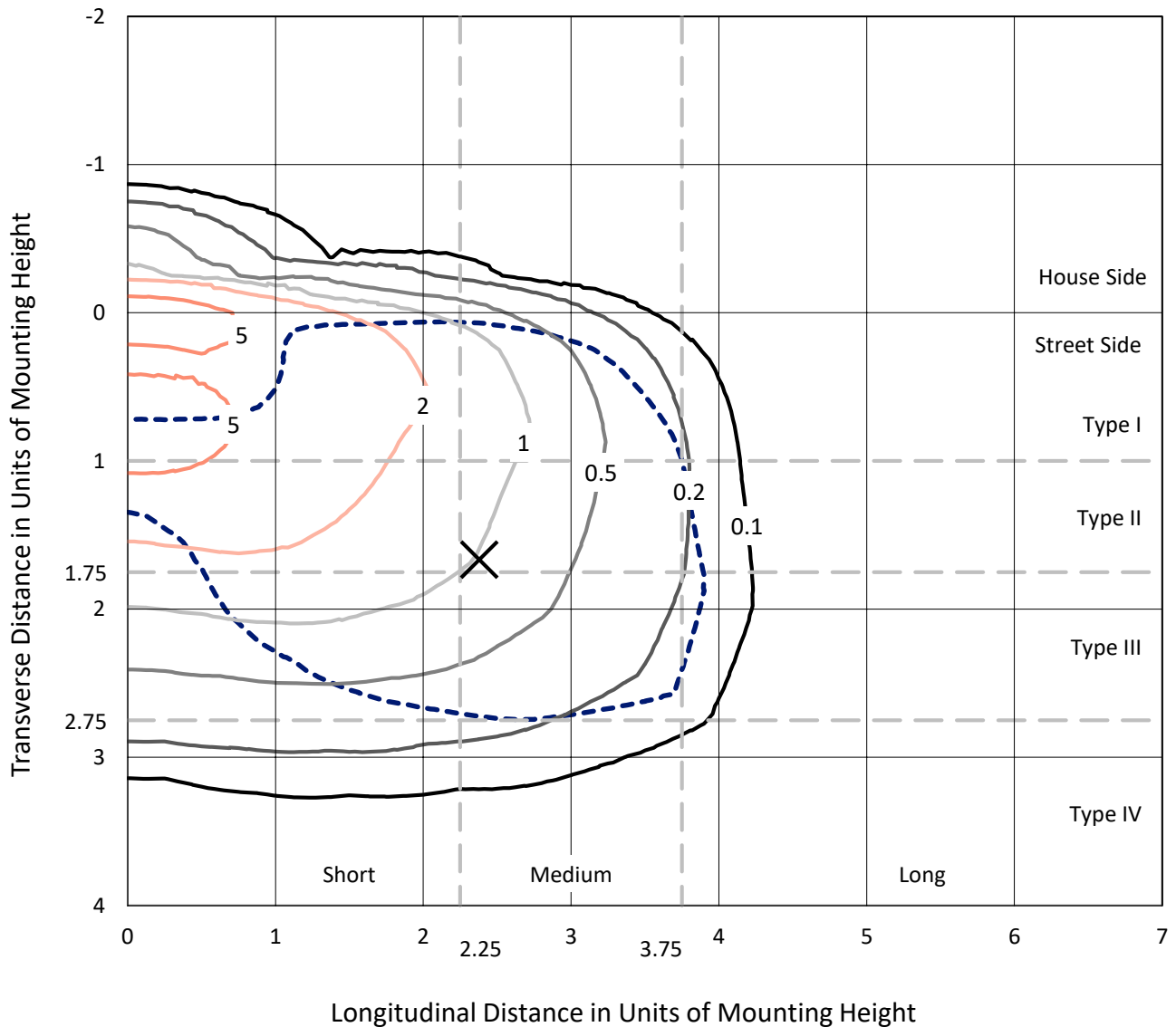
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

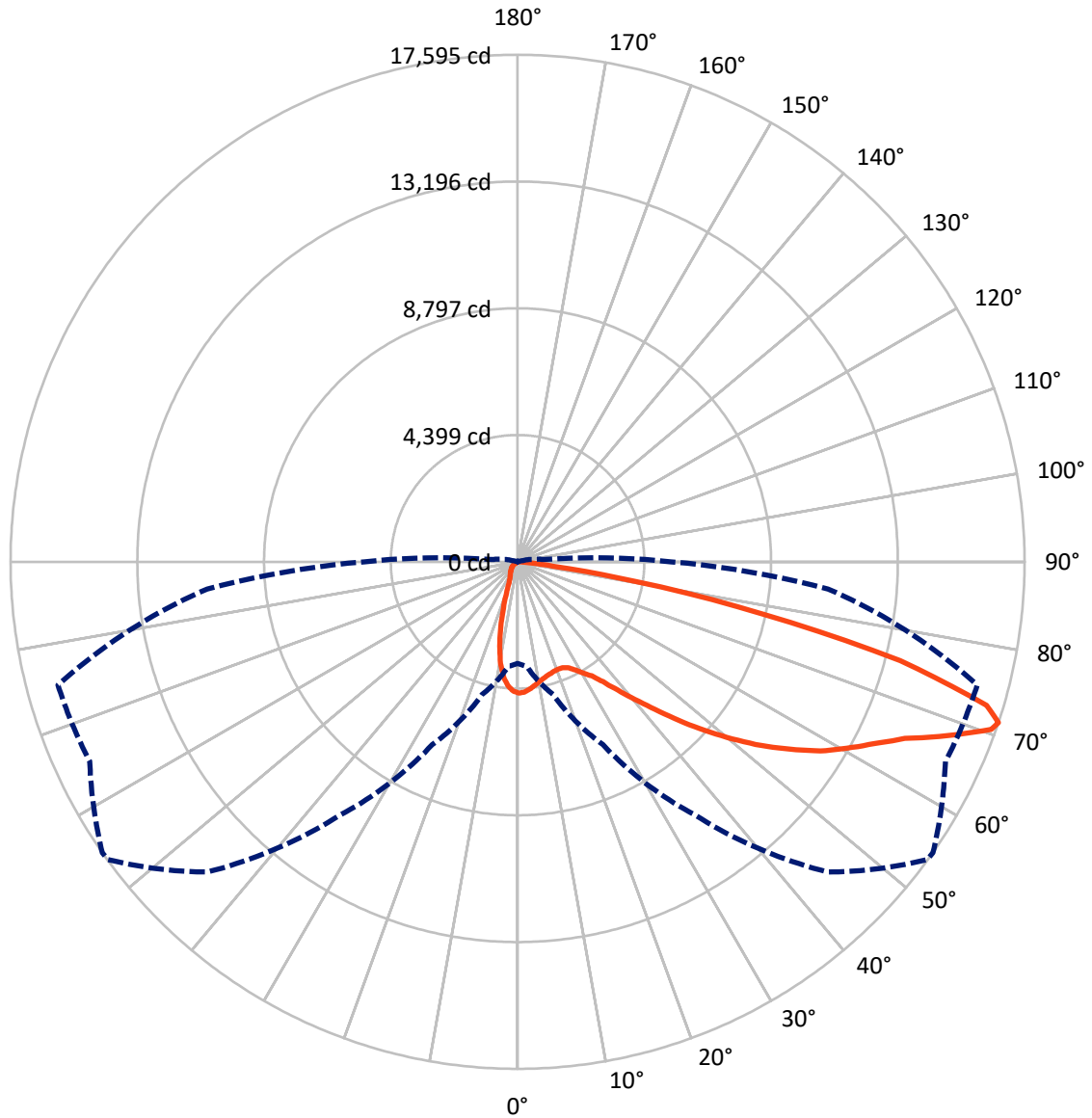
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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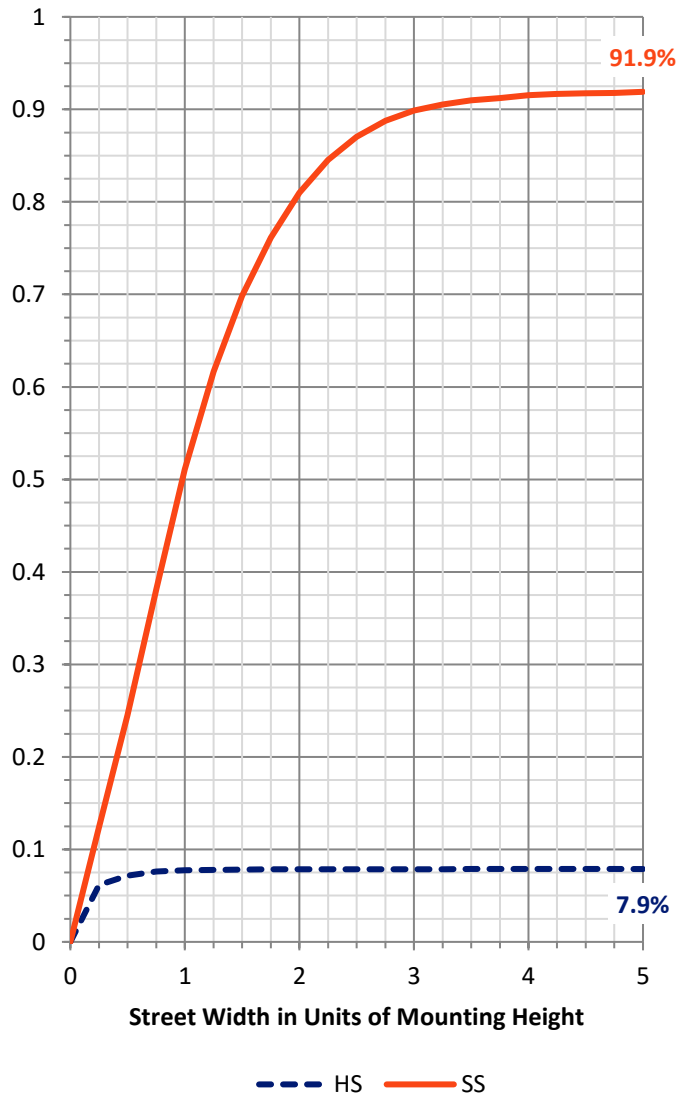
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1869.8	0.0	1869.8
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	21746.8	0.0	21746.8
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	23616.6	0.0	23616.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.3	1.6
10°-20°	876.7	3.7
20°-30°	1408.9	6.0
30°-40°	2393.8	10.1
40°-50°	3715.4	15.7
50°-60°	4995.3	21.2
60°-70°	6110.9	25.9
70°-80°	3572.9	15.1
80°-90°	154.4	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°	23616.6	100.0
0°-180°	23616.6	100.0

**Coefficient of Utilization**

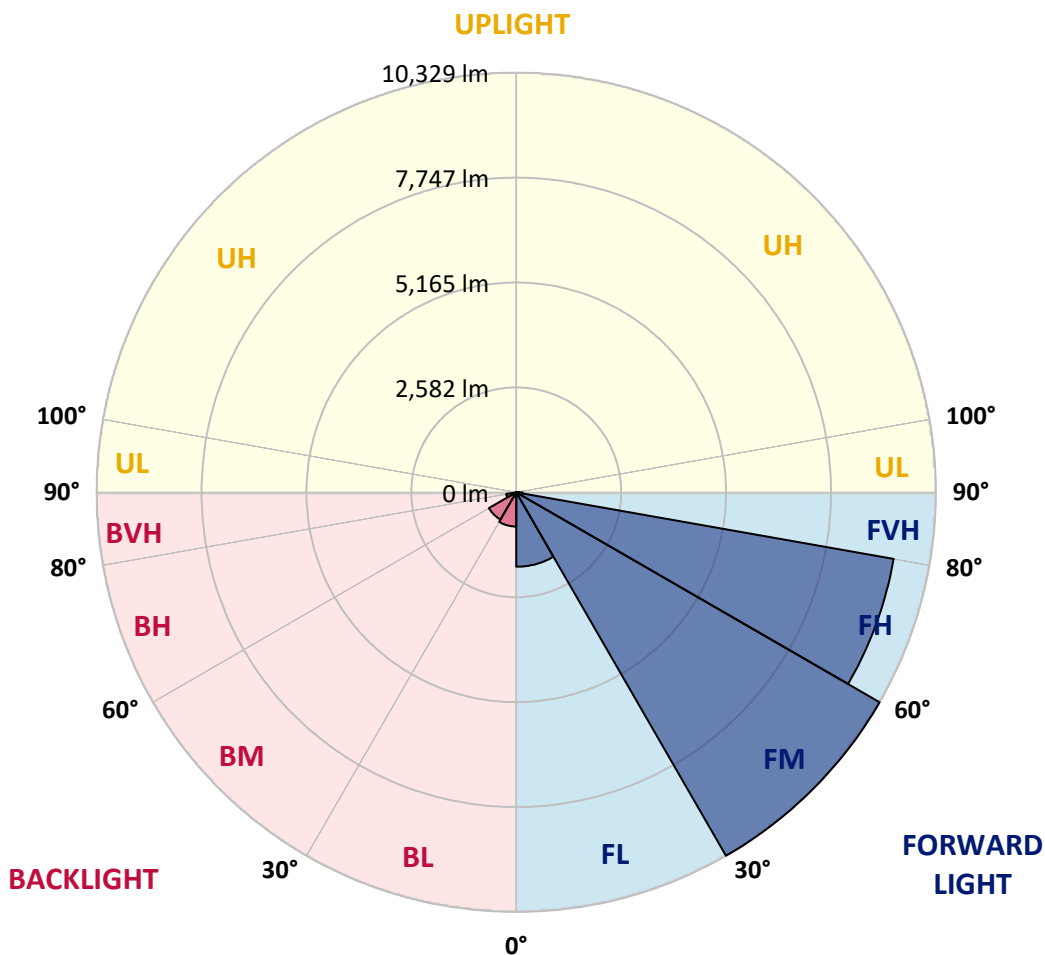


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1832.3	7.8			
FM (30°-60°)	10329.2	43.7			
FH (60°-80°)	9433.3	39.9			G4/12000
FVH (80°-90°)	152.0	0.6			G2/225
BL (0°-30°)	841.6	3.6	B2/1000		
BM (30°-60°)	775.2	3.3	B1/1000		
BH (60°-80°)	250.5	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5
2.5°	4420.9	4426.2	4445.3	4453.8	4473.9	4507.9	4524.9	4525.9	4553.5	4564.1	4572.6
5°	4108.1	4139.9	4171.7	4205.7	4267.1	4348.8	4429.4	4436.9	4525.9	4591.7	4626.6
7.5°	3838.7	3867.4	3905.6	3959.6	4046.6	4174.9	4309.6	4325.5	4494.1	4643.6	4722.1
10°	3562.0	3585.3	3640.5	3719.9	3839.8	4011.6	4192.9	4219.4	4465.5	4713.6	4851.5
12.5°	3266.1	3279.9	3346.7	3461.3	3637.2	3855.7	4094.3	4129.3	4447.5	4794.2	5004.2
15°	3041.3	3047.7	3111.3	3230.0	3431.5	3715.8	4018.0	4060.4	4451.7	4890.7	5170.6
17.5°	2984.0	2987.2	3021.2	3102.8	3281.0	3590.7	3957.5	4009.5	4464.4	4985.1	5338.2
20°	3216.3	3194.0	3159.1	3146.3	3222.7	3515.3	3921.4	3979.8	4481.4	5068.8	5488.8
22.5°	3853.6	3787.9	3642.5	3448.5	3330.8	3520.6	3931.0	3989.4	4535.4	5171.7	5662.7
25°	4799.5	4708.3	4461.2	4079.4	3712.6	3673.4	4010.5	4069.9	4640.4	5294.7	5829.2
27.5°	5875.8	5785.7	5483.5	4938.4	4312.8	3975.6	4192.9	4248.0	4796.4	5403.9	5956.4
30°	6906.6	6881.2	6524.8	5905.5	5067.8	4465.5	4428.4	4475.0	4911.9	5469.7	6057.2
32.5°	7780.4	7740.0	7453.8	6851.4	5932.0	5054.0	4705.2	4718.9	4998.9	5554.5	6188.6
35°	8590.5	8540.7	8289.4	7719.9	6818.6	5773.0	5131.4	5111.3	5188.7	5725.3	6379.5
37.5°	9297.9	9343.4	9064.5	8522.6	7613.9	6520.6	5706.2	5645.7	5485.6	6003.1	6656.3
40°	9889.6	9889.6	9744.3	9292.6	8472.8	7293.6	6356.2	6276.7	5932.0	6431.5	7007.3
42.5°	10102.7	10148.3	10202.4	9946.8	9241.6	8097.5	7080.5	6997.8	6560.9	7039.1	7450.6
45°	10115.4	10187.6	10464.4	10463.2	9936.3	8895.9	7897.0	7857.8	7366.8	7819.6	7999.9
47.5°	9936.3	10026.3	10482.3	10741.1	10486.6	9639.3	8789.9	8741.1	8313.8	8776.1	8574.6
50°	9659.5	9759.2	10289.3	10850.3	10860.9	10286.1	9730.5	9657.4	9356.2	9869.4	9168.5
52.5°	9164.2	9357.2	10116.5	10875.7	11106.9	10845.0	10625.5	10593.7	10522.7	10922.4	9641.4
55°	8104.8	8319.1	9682.8	10884.3	11335.0	11340.2	11464.3	11472.8	11615.9	11906.5	9993.5
57.5°	7604.3	7725.2	8925.6	10924.5	11673.2	11902.3	12319.0	12384.7	12606.4	12840.7	10395.4
60°	7289.4	7432.5	8552.4	10869.4	12204.5	12639.2	13111.2	13133.4	13371.0	13804.7	10939.3
62.5°	7038.0	7179.1	8317.0	10657.3	12801.5	13525.8	13885.3	13887.4	14065.5	14953.1	11557.6
65°	6417.7	6536.5	7840.8	10418.7	13196.0	14402.8	14784.5	14770.7	14916.0	16164.1	12275.6
67.5°	5520.6	5611.8	6868.4	9514.2	13047.5	15200.2	16141.9	16096.3	15920.2	17210.8	12557.6
70°	4268.3	4301.1	5413.5	7928.9	11656.3	15506.6	17453.6	17430.3	16536.4	17023.1	11523.7
71°	3528.1	3636.2	4770.8	6997.8	10724.2	15223.5	17580.8	17594.6	16381.5	16512.0	10812.1
72.5°	2048.8	2141.0	3458.1	5374.3	9104.9	14042.2	16921.3	17021.0	15658.3	15018.9	9235.3
75°	439.0	469.8	1282.1	2601.3	5008.4	9841.8	13356.2	13711.4	12762.3	10217.2	5566.2
77.5°	305.4	329.8	549.3	1180.3	1655.4	4863.1	8296.8	8697.7	7624.5	3839.8	1781.5
80°	241.7	269.3	428.4	583.2	447.5	1568.4	3886.5	4131.4	2542.9	856.8	300.1
82.5°	134.7	160.1	334.1	315.0	171.8	298.0	1088.0	1230.1	509.0	172.9	71.1
85°	39.2	47.7	215.3	229.1	73.1	57.3	185.6	230.1	96.5	45.6	31.9
87.5°	0.0	0.0	104.0	88.0	21.2	8.5	17.0	19.1	19.1	19.1	21.2
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°	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5	4554.5
2.5°	4572.6	4580.0	4553.5	4518.5	4481.4	4435.8	4388.1	4351.0	4349.9	4331.9	4313.8
5°	4628.8	4624.6	4551.4	4440.0	4308.5	4171.7	4041.3	3893.9	3845.1	3784.7	3764.6
7.5°	4732.7	4703.0	4548.2	4304.3	4015.8	3729.5	3433.7	3135.7	3008.4	2893.9	2873.7
10°	4863.1	4807.0	4528.1	4100.7	3571.6	3043.5	2597.0	2191.9	2013.7	1877.0	1870.6
12.5°	4998.9	4913.0	4471.8	3793.2	2989.3	2247.1	1732.8	1334.0	1185.6	1090.1	1098.6
15°	5140.9	5012.7	4351.0	3378.5	2326.5	1524.9	1064.7	830.3	770.9	746.5	752.9
17.5°	5286.3	5081.6	4182.4	2879.0	1672.3	984.1	737.0	671.3	671.3	676.6	678.6
20°	5412.5	5118.7	3934.2	2319.2	1133.6	716.8	644.7	635.2	640.5	649.0	650.0
22.5°	5537.6	5120.8	3610.8	1751.9	793.2	627.8	614.0	609.8	613.0	622.5	623.6
25°	5639.4	5095.4	3205.6	1246.0	633.1	591.7	585.4	583.2	585.4	597.0	597.0
27.5°	5680.8	5003.1	2711.5	875.9	567.3	551.4	549.3	551.4	554.6	563.1	564.1
30°	5685.0	4841.9	2172.8	634.1	514.3	497.4	501.5	509.0	505.8	503.7	505.8
32.5°	5695.6	4655.3	1647.9	521.8	469.8	443.2	437.9	437.9	425.3	417.8	413.6
35°	5730.6	4435.8	1195.1	468.8	424.1	393.4	373.3	350.0	325.6	312.8	309.6
37.5°	5785.7	4205.7	855.8	433.7	383.9	348.9	310.7	269.3	234.4	224.8	224.8
40°	5886.4	3968.1	633.1	406.2	352.0	308.6	251.3	197.2	165.4	160.1	160.1
42.5°	6045.5	3717.9	504.8	381.7	324.5	267.3	191.9	143.2	119.8	116.6	115.6
45°	6210.9	3442.2	441.2	358.5	294.8	219.5	142.1	106.0	92.2	89.1	89.1
47.5°	6376.4	3148.4	410.3	336.2	266.1	170.8	106.0	83.7	77.4	77.4	78.4
50°	6516.4	2842.0	388.1	311.8	229.1	129.4	83.7	71.1	68.9	73.1	74.2
52.5°	6551.3	2540.8	360.5	281.0	183.4	98.7	68.9	62.6	62.6	62.6	62.6
55°	6530.1	2307.5	324.5	242.9	135.7	78.4	59.3	55.1	54.1	54.1	54.1
57.5°	6602.3	2169.7	259.8	188.7	97.5	63.6	52.0	48.8	46.7	45.6	45.6
60°	6747.5	2079.5	185.6	135.7	73.1	53.0	44.5	41.4	38.2	36.1	36.1
62.5°	6940.5	2001.1	137.9	100.7	56.2	42.4	37.1	33.9	29.7	27.6	27.6
65°	7089.0	1861.0	105.0	75.3	42.4	33.9	28.6	27.6	21.2	19.1	18.1
67.5°	6862.1	1553.5	84.9	55.1	31.9	26.5	22.3	21.2	12.8	10.6	10.6
70°	5885.4	1081.6	67.9	40.3	23.3	21.2	18.1	13.8	9.5	8.5	8.5
71°	5337.1	903.5	61.5	33.9	20.1	20.1	17.0	11.6	8.5	7.5	7.5
72.5°	4433.7	641.6	52.0	26.5	18.1	21.2	18.1	10.6	8.5	7.5	6.3
75°	2573.7	268.3	36.1	18.1	13.8	25.4	23.3	9.5	6.3	5.3	5.3
77.5°	774.1	98.7	20.1	11.6	10.6	22.3	26.5	8.5	3.2	1.0	1.0
80°	141.0	42.4	12.8	7.5	7.5	13.8	20.1	4.3	0.0	0.0	0.0
82.5°	49.8	21.2	7.5	4.3	3.2	6.3	9.5	0.0	0.0	0.0	0.0
85°	28.6	14.8	4.3	2.1	0.0	1.0	2.1	0.0	0.0	0.0	0.0
87.5°	19.1	4.3	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)