

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: P321618

Luminaire Tested: **GAN-SA4D-740-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321618  
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-SA4D-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA 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: 24072 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 258  
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

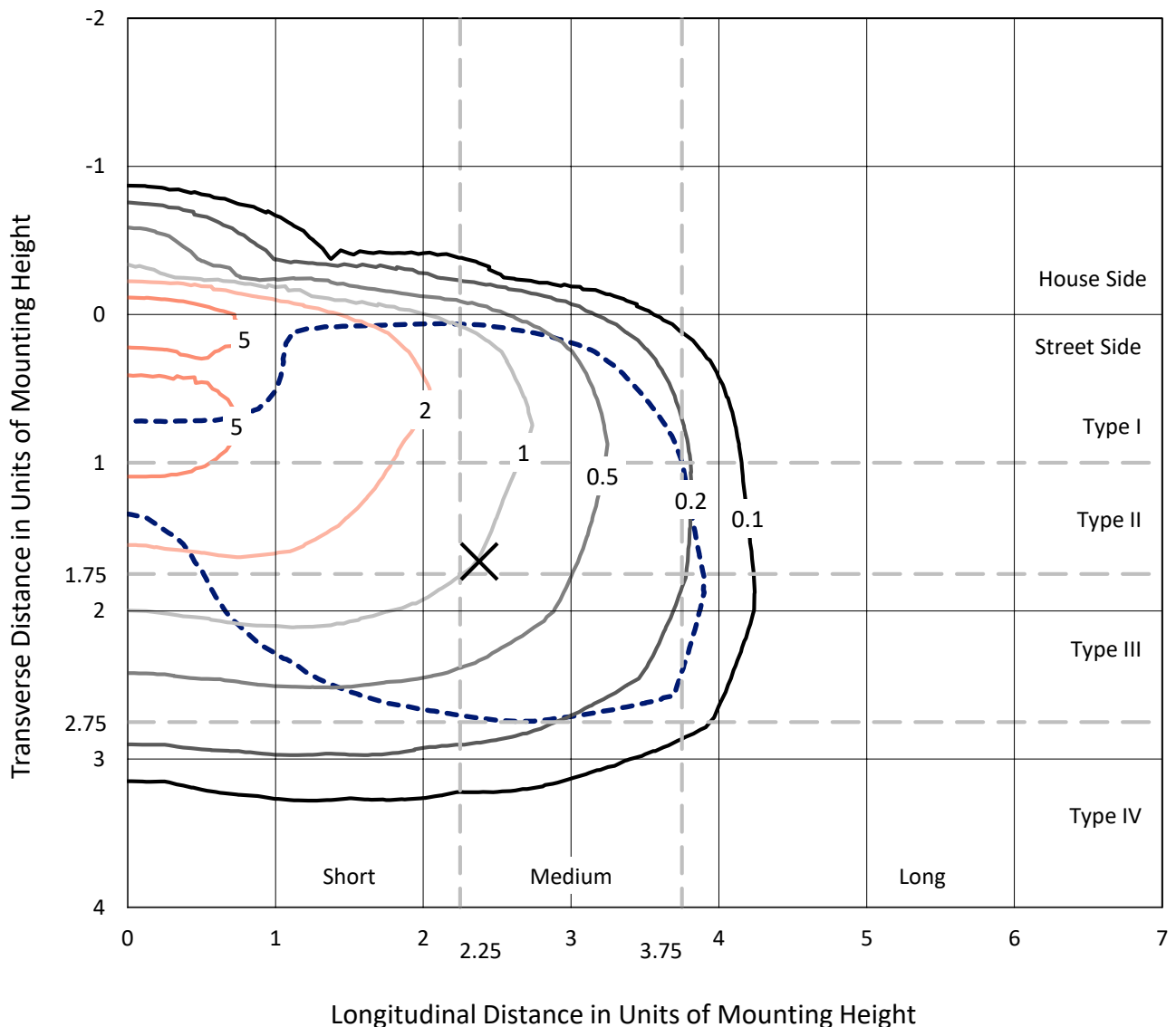




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### Iso-Footcandle Lines of Horizontal Illumination

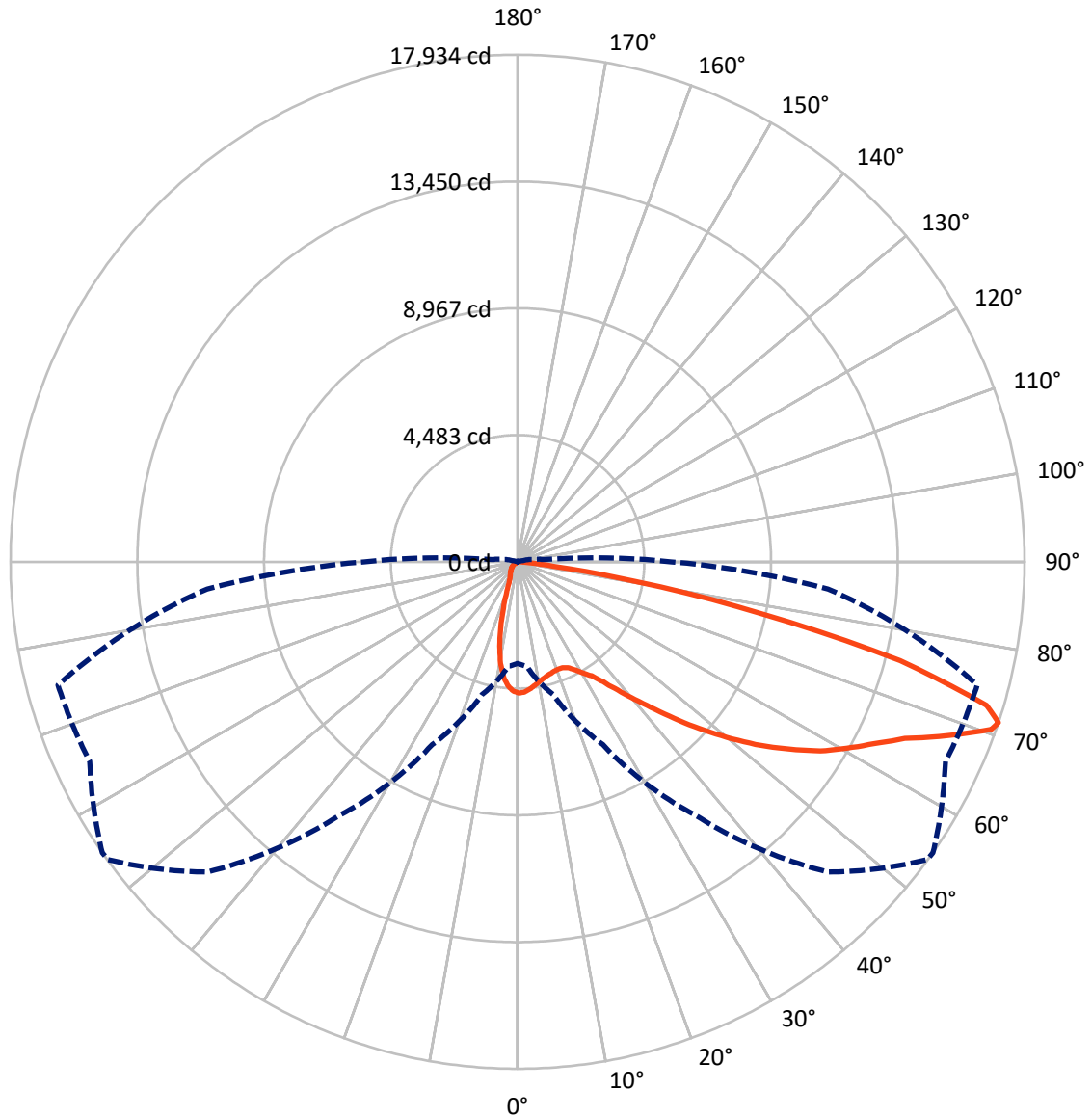
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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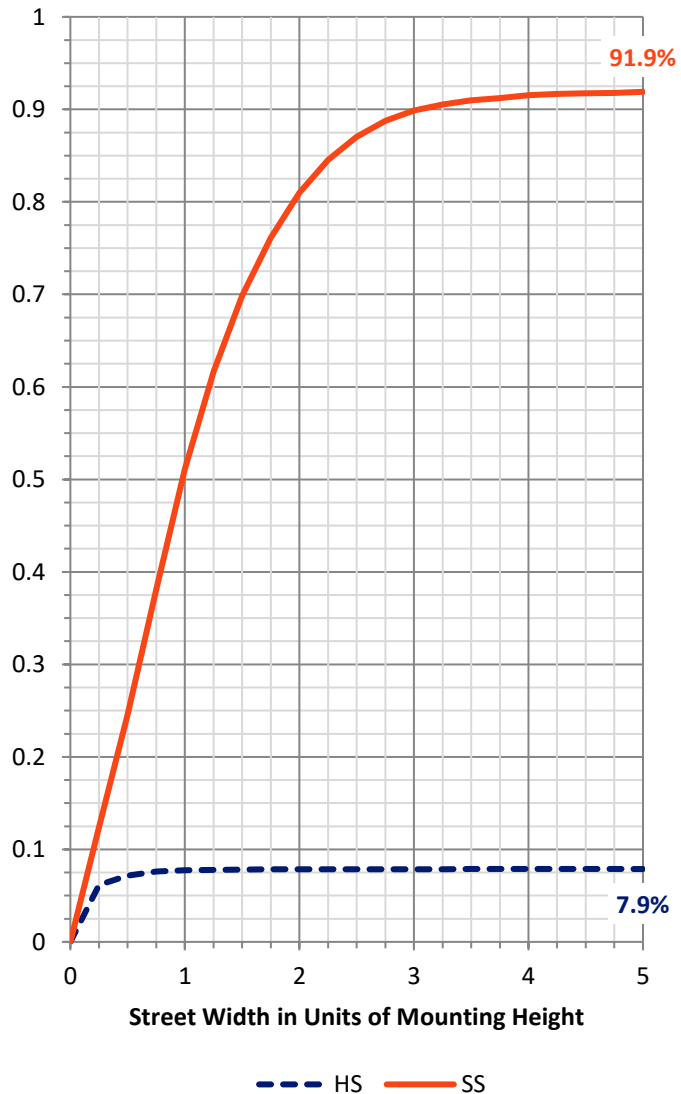
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1905.8	0.0	1905.8
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	22166.2	0.0	22166.2
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	24072.0	0.0	24072.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.8	1.6
10°-20°	893.6	3.7
20°-30°	1436.1	6.0
30°-40°	2439.9	10.1
40°-50°	3787.1	15.7
50°-60°	5091.6	21.2
60°-70°	6228.7	25.9
70°-80°	3641.8	15.1
80°-90°	157.4	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°	24072.0	100.0
0°-180°	24072.0	100.0

**Coefficient of Utilization**

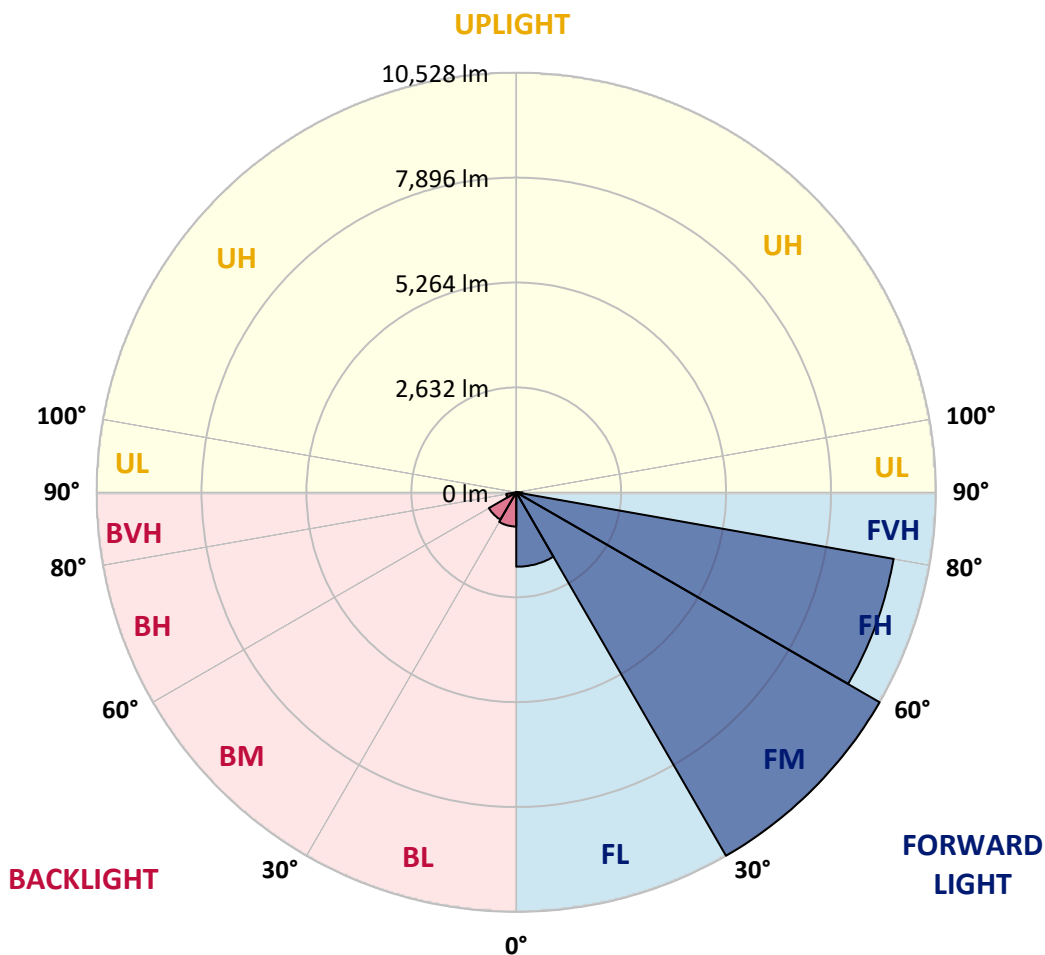


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1867.7	7.8			
FM (30°-60°)	10528.4	43.7			
FH (60°-80°)	9615.2	39.9			G4/12000
FVH (80°-90°)	154.9	0.6			G2/225
BL (0°-30°)	857.8	3.6	B2/1000		
BM (30°-60°)	790.2	3.3	B1/1000		
BH (60°-80°)	255.3	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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°	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4
2.5°	4506.2	4511.6	4531.0	4539.7	4560.2	4594.8	4612.1	4613.2	4641.3	4652.1	4660.7
5°	4187.3	4219.7	4252.2	4286.8	4349.5	4432.7	4514.8	4522.4	4613.2	4680.2	4715.9
7.5°	3912.8	3942.0	3980.9	4036.0	4124.6	4255.4	4392.7	4408.9	4580.8	4733.2	4813.2
10°	3630.7	3654.4	3710.7	3791.7	3913.9	4089.0	4273.8	4300.8	4551.6	4804.5	4945.0
12.5°	3329.1	3343.2	3411.3	3528.0	3707.4	3930.1	4173.3	4208.9	4533.2	4886.7	5100.7
15°	3100.0	3106.4	3171.3	3292.4	3497.7	3787.4	4095.4	4138.7	4537.5	4985.0	5270.4
17.5°	3041.6	3044.8	3079.4	3162.6	3344.2	3659.9	4033.8	4086.8	4550.5	5081.2	5441.1
20°	3278.3	3255.6	3219.9	3207.0	3284.8	3583.1	3997.1	4056.5	4567.8	5166.6	5594.6
22.5°	3927.9	3860.9	3712.8	3515.0	3395.0	3588.5	4006.8	4066.3	4622.9	5271.4	5771.9
25°	4892.1	4799.1	4547.3	4158.1	3784.2	3744.2	4087.9	4148.4	4729.9	5396.8	5941.6
27.5°	5989.1	5897.3	5589.2	5033.6	4395.9	4052.2	4273.8	4330.0	4888.8	5508.2	6071.3
30°	7039.8	7013.8	6650.6	6019.4	5165.5	4551.6	4513.7	4561.3	5006.6	5575.2	6174.0
32.5°	7930.4	7889.3	7597.5	6983.6	6046.4	5151.5	4795.9	4809.9	5095.3	5661.6	6308.0
35°	8756.2	8705.4	8449.2	7868.8	6950.0	5884.3	5230.4	5209.8	5288.7	5835.7	6502.6
37.5°	9477.1	9523.6	9239.3	8687.0	7760.7	6646.3	5816.2	5754.6	5591.4	6118.9	6784.7
40°	10080.3	10080.3	9932.2	9471.7	8636.2	7434.3	6478.8	6397.7	6046.4	6555.5	7142.4
42.5°	10297.5	10344.0	10399.1	10138.6	9419.9	8253.6	7217.0	7132.7	6687.4	7174.9	7594.2
45°	10310.5	10384.0	10666.1	10665.0	10127.8	9067.5	8049.3	8009.3	7508.9	7970.4	8154.1
47.5°	10127.8	10219.7	10684.5	10948.2	10688.8	9825.2	8959.4	8909.7	8474.1	8945.3	8740.0
50°	9845.7	9947.3	10487.8	11059.5	11070.4	10484.5	9918.1	9843.6	9536.6	10059.7	9345.3
52.5°	9340.9	9537.7	10311.6	11085.5	11321.1	11054.1	10830.4	10798.0	10725.6	11133.0	9827.3
55°	8261.2	8479.5	9869.5	11094.1	11553.5	11558.9	11685.4	11694.0	11839.9	12136.1	10186.2
57.5°	7751.0	7874.2	9097.8	11135.2	11898.3	12131.8	12556.6	12623.6	12849.5	13088.4	10595.8
60°	7430.0	7575.9	8717.3	11079.0	12439.8	12883.0	13364.0	13386.7	13628.8	14070.9	11150.3
62.5°	7173.8	7317.5	8477.3	10862.8	13048.4	13786.6	14153.0	14155.2	14336.8	15241.5	11780.5
65°	6541.5	6662.5	7992.0	10619.6	13450.4	14680.5	15069.6	15055.6	15203.6	16475.8	12512.2
67.5°	5627.1	5720.0	7000.8	9697.6	13299.1	15493.3	16453.1	16406.6	16227.2	17542.7	12799.8
70°	4350.5	4384.0	5517.9	8081.7	11881.0	15805.7	17790.2	17766.4	16855.2	17351.3	11745.9
71°	3596.1	3706.3	4862.9	7132.7	10930.9	15517.1	17919.9	17933.9	16697.4	16830.4	11020.6
72.5°	2088.3	2182.3	3524.7	5477.9	9280.4	14313.0	17247.6	17349.2	15960.2	15308.5	9413.4
75°	447.5	478.8	1306.8	2651.4	5105.0	10031.6	13613.7	13975.8	13008.4	10414.3	5673.5
77.5°	311.3	336.2	559.9	1203.0	1687.3	4956.9	8456.8	8865.4	7771.5	3913.9	1815.9
80°	246.4	274.5	436.7	594.5	456.1	1598.6	3961.4	4211.1	2591.9	873.3	305.9
82.5°	137.3	163.2	340.5	321.0	175.1	303.7	1109.0	1253.8	518.8	176.2	72.4
85°	40.0	48.6	219.4	233.5	74.6	58.4	189.2	234.6	98.4	46.5	32.4
87.5°	0.0	0.0	105.9	89.7	21.6	8.6	17.3	19.5	19.5	19.5	21.6
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°	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4	4642.4
2.5°	4660.7	4668.3	4641.3	4605.6	4567.8	4521.3	4472.7	4434.8	4433.8	4415.4	4397.0
5°	4718.0	4713.7	4639.1	4525.6	4391.6	4252.2	4119.2	3969.0	3919.3	3857.7	3837.1
7.5°	4824.0	4793.7	4635.9	4387.3	4093.3	3801.4	3499.9	3196.2	3066.5	2949.7	2929.2
10°	4956.9	4899.6	4615.3	4179.8	3640.4	3102.1	2647.1	2234.2	2052.6	1913.2	1906.7
12.5°	5095.3	5007.7	4558.1	3866.3	3047.0	2290.4	1766.2	1359.7	1208.4	1111.1	1119.8
15°	5240.1	5109.3	4434.8	3443.7	2371.4	1554.3	1085.2	846.3	785.8	760.9	767.4
17.5°	5388.2	5179.6	4263.0	2934.6	1704.5	1003.1	751.2	684.2	684.2	689.6	691.8
20°	5516.8	5217.4	4010.1	2363.9	1155.5	730.7	657.2	647.4	652.9	661.5	662.6
22.5°	5644.3	5219.6	3680.4	1785.6	808.5	639.9	625.8	621.5	624.7	634.5	635.6
25°	5748.1	5193.6	3267.5	1270.0	645.3	603.1	596.6	594.5	596.6	608.5	608.5
27.5°	5790.3	5099.6	2763.8	892.8	578.3	562.1	559.9	562.1	565.3	573.9	575.0
30°	5794.6	4935.3	2214.7	646.4	524.2	506.9	511.3	518.8	515.6	513.4	515.6
32.5°	5805.4	4745.1	1679.7	531.8	478.8	451.8	446.4	446.4	433.4	425.9	421.5
35°	5841.1	4521.3	1218.1	477.7	432.4	401.0	380.5	356.7	331.8	318.9	315.6
37.5°	5897.3	4286.8	872.3	442.1	391.3	355.6	316.7	274.5	238.9	229.1	229.1
40°	6000.0	4044.6	645.3	414.0	358.9	314.5	256.2	201.0	168.6	163.2	163.2
42.5°	6162.1	3789.6	514.5	389.1	330.7	272.4	195.6	145.9	122.1	118.9	117.8
45°	6330.7	3508.5	449.6	365.3	300.5	223.7	144.8	108.1	94.0	90.8	90.8
47.5°	6499.3	3209.1	418.3	342.6	271.3	174.0	108.1	85.4	78.9	78.9	80.0
50°	6642.0	2896.8	395.6	317.8	233.5	131.9	85.4	72.4	70.3	74.6	75.7
52.5°	6677.7	2589.8	367.5	286.4	187.0	100.5	70.3	63.8	63.8	63.8	63.8
55°	6656.0	2352.0	330.7	247.5	138.4	80.0	60.5	56.2	55.1	55.1	55.1
57.5°	6729.5	2211.5	264.8	192.4	99.4	64.9	53.0	49.7	47.6	46.5	46.5
60°	6877.6	2119.6	189.2	138.4	74.6	54.0	45.4	42.2	38.9	36.7	36.7
62.5°	7074.3	2039.6	140.5	102.7	57.3	43.2	37.8	34.6	30.3	28.1	28.1
65°	7225.7	1896.9	107.0	76.7	43.2	34.6	29.2	28.1	21.6	19.5	18.4
67.5°	6994.4	1583.5	86.5	56.2	32.4	27.0	22.7	21.6	13.0	10.8	10.8
70°	5998.9	1102.5	69.2	41.1	23.8	21.6	18.4	14.1	9.7	8.6	8.6
71°	5440.1	920.9	62.7	34.6	20.5	20.5	17.3	11.9	8.6	7.6	7.6
72.5°	4519.2	653.9	53.0	27.0	18.4	21.6	18.4	10.8	8.6	7.6	6.5
75°	2623.3	273.5	36.7	18.4	14.1	25.9	23.8	9.7	6.5	5.4	5.4
77.5°	789.0	100.5	20.5	11.9	10.8	22.7	27.0	8.6	3.2	1.1	1.1
80°	143.8	43.2	13.0	7.6	7.6	14.1	20.5	4.3	0.0	0.0	0.0
82.5°	50.8	21.6	7.6	4.3	3.2	6.5	9.7	0.0	0.0	0.0	0.0
85°	29.2	15.1	4.3	2.2	0.0	1.1	2.2	0.0	0.0	0.0	0.0
87.5°	19.5	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)