

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: P322884

Luminaire Tested: **GAN-SA0B-740-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322884  
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-SA0B-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 800mA 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: 40997 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

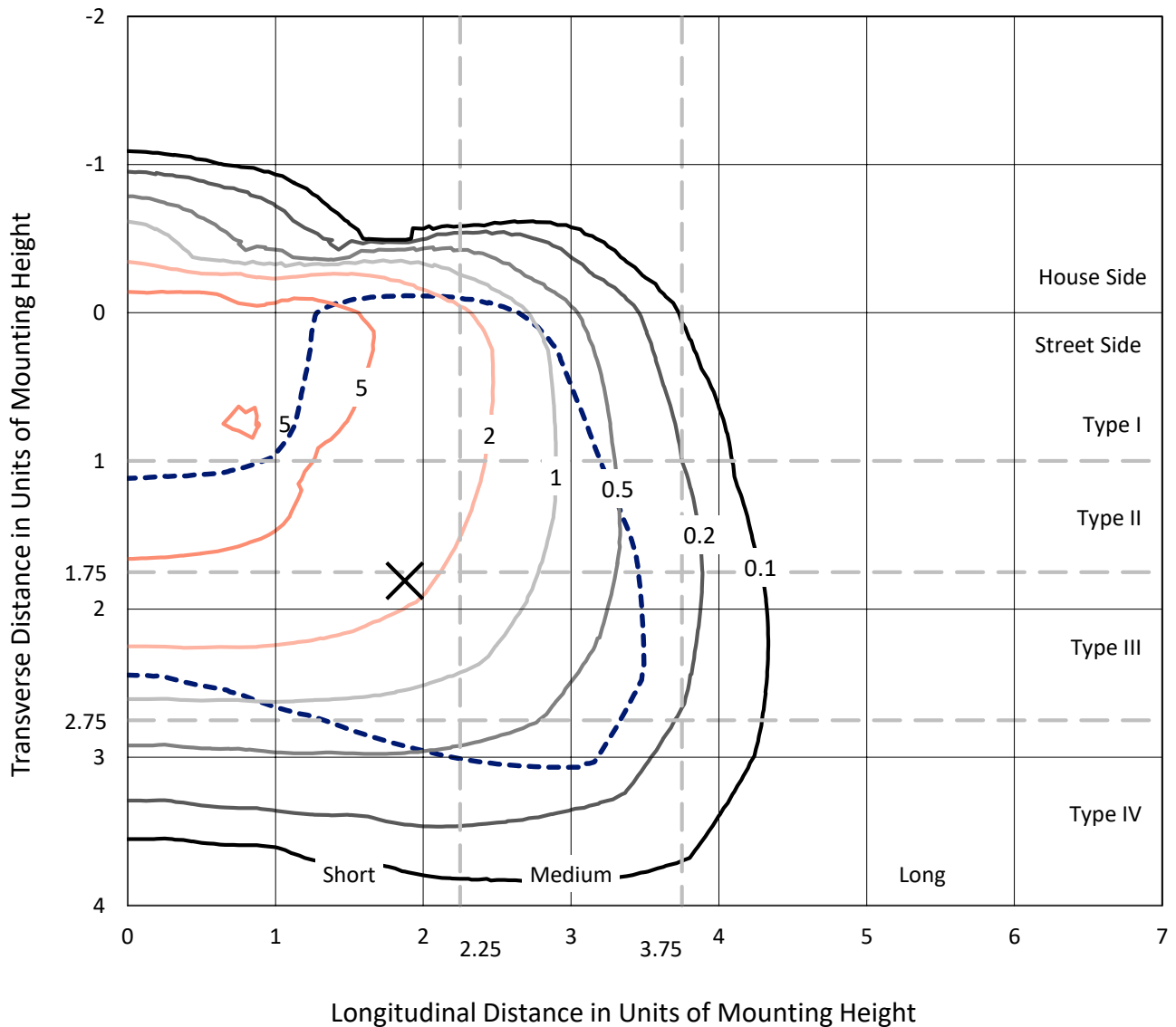
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

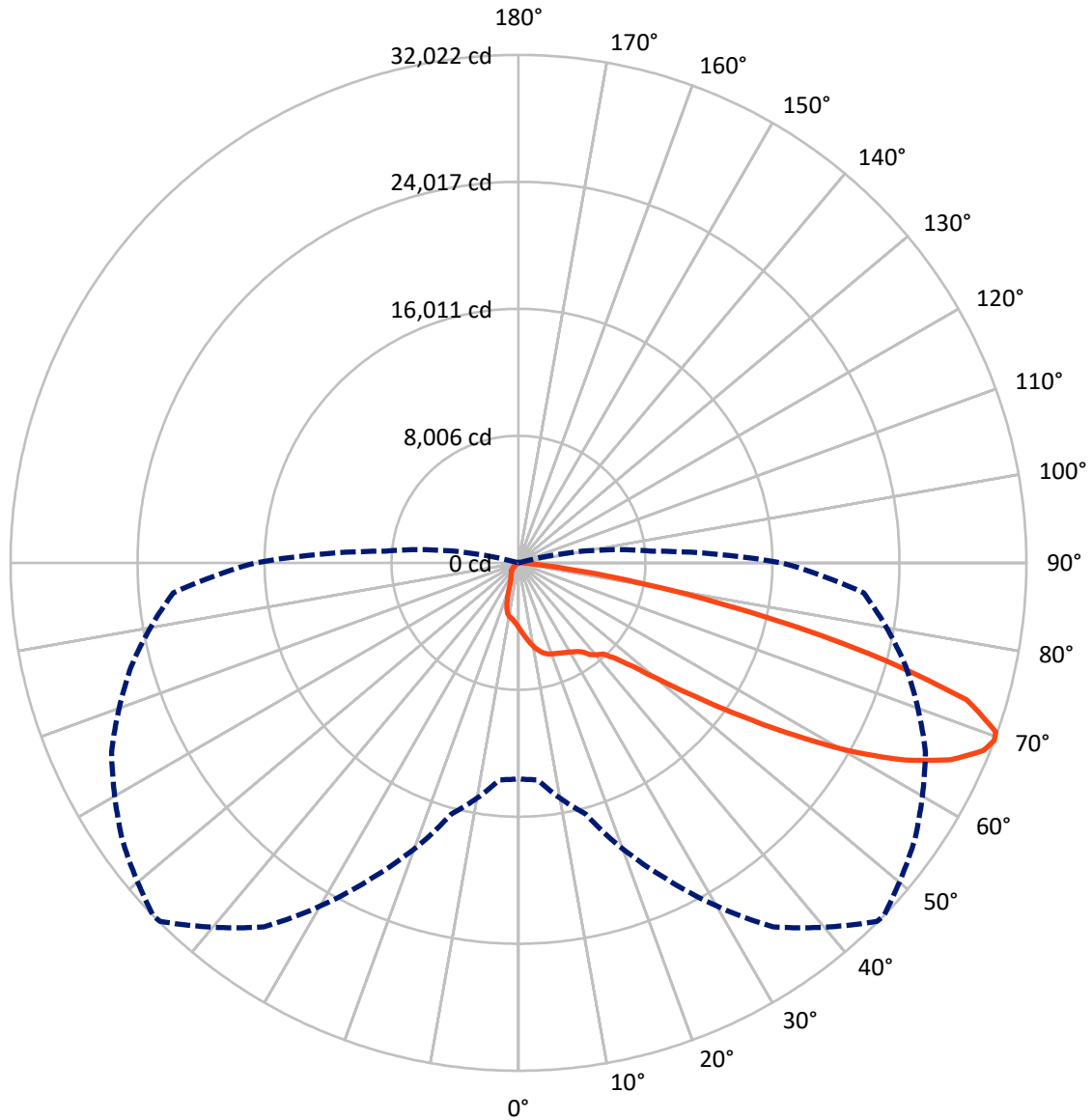
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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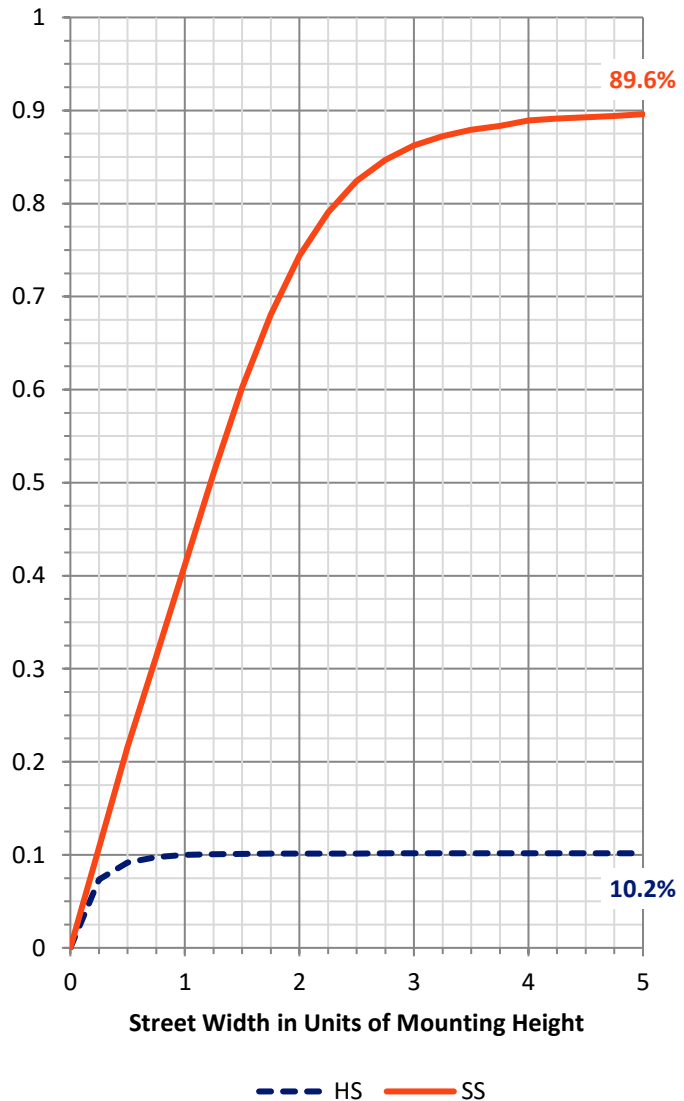
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4207.4	0.0	4207.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	36789.6	0.0	36789.6
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	40997.0	0.0	40997.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.9	1.0
10°-20°	1240.4	3.0
20°-30°	1950.7	4.8
30°-40°	2797.3	6.8
40°-50°	4834.9	11.8
50°-60°	9551.7	23.3
60°-70°	13349.4	32.6
70°-80°	6449.2	15.7
80°-90°	414.5	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°	40997.0	100.0
0°-180°	40997.0	100.0

**Coefficient of Utilization**



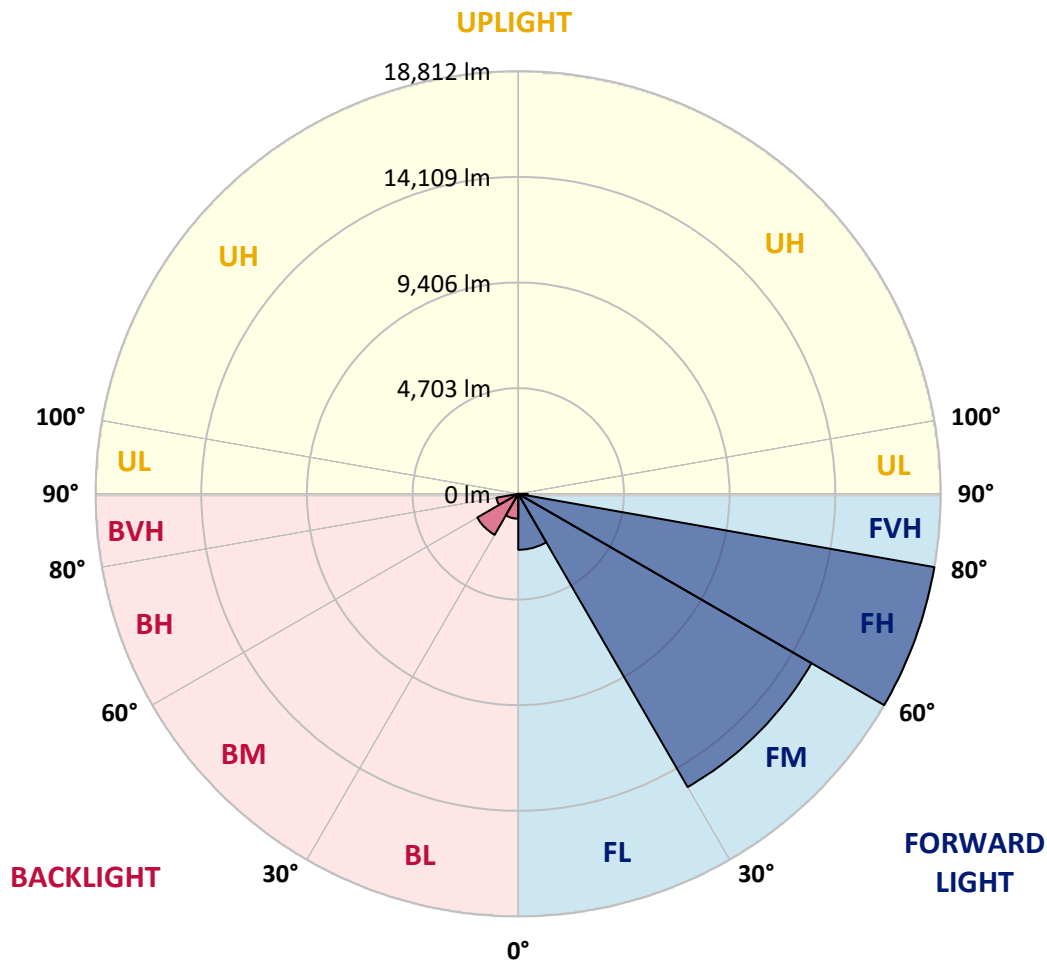
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.1	6.1			
FM (30°-60°)	15075.5	36.8			
FH (60°-80°)	18812.0	45.9			G5
FVH (80°-90°)	411.0	1.0			G3/500
BL (0°-30°)	1108.9	2.7	B3/2500		
BM (30°-60°)	2108.4	5.1	B2/2500		
BH (60°-80°)	986.6	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7
2.5°	4563.3	4557.5	4530.6	4519.1	4453.7	4415.3	4399.9	4351.9	4282.7	4213.5	4136.6
5°	5082.3	5080.4	5030.4	4982.3	4859.3	4744.0	4722.9	4611.4	4455.7	4309.6	4163.5
7.5°	5612.8	5587.8	5537.9	5445.6	5266.8	5082.3	5065.0	4907.4	4686.3	4474.9	4265.4
10°	6062.6	6047.2	5981.9	5841.6	5632.1	5422.5	5401.4	5207.2	4957.4	4697.9	4430.7
12.5°	6412.5	6400.9	6314.4	6139.5	5916.5	5699.3	5670.5	5497.5	5230.3	4940.1	4624.8
15°	6625.8	6620.1	6514.3	6327.9	6108.8	5920.4	5895.4	5743.5	5495.6	5191.9	4836.3
17.5°	6675.8	6677.7	6568.2	6379.8	6199.1	6064.5	6045.3	5930.0	5722.4	5420.6	5047.7
20°	6564.3	6587.4	6489.4	6326.0	6214.5	6143.4	6128.0	6058.8	5883.9	5599.4	5216.9
22.5°	6406.7	6418.2	6351.0	6241.4	6195.3	6208.7	6201.0	6162.6	6014.6	5753.2	5384.1
25°	6310.6	6310.6	6270.2	6178.0	6208.7	6291.4	6293.3	6285.6	6168.3	5941.5	5587.8
27.5°	6306.7	6295.2	6249.1	6179.9	6264.5	6391.3	6399.0	6450.9	6377.9	6170.3	5841.6
30°	6460.5	6447.1	6349.0	6258.7	6366.3	6502.8	6522.0	6635.4	6598.9	6418.2	6124.1
32.5°	6820.0	6771.9	6554.7	6406.7	6487.4	6650.8	6675.8	6856.5	6914.2	6723.9	6397.1
35°	7312.1	7160.2	6846.9	6687.3	6695.0	6866.1	6889.2	7154.4	7325.5	7004.5	6608.5
37.5°	7990.6	7915.6	7406.2	6979.5	7014.1	7273.6	7340.9	7629.2	7581.2	7158.3	6848.8
40°	9478.4	9361.1	8819.1	7798.4	7319.7	7604.2	7625.4	7779.2	7783.0	7506.2	7348.6
42.5°	11504.4	11456.3	10885.4	9284.2	7921.4	7825.3	7863.7	8123.2	8413.5	8240.5	8232.8
45°	13747.6	13722.6	13117.1	11256.4	9138.1	8550.0	8598.0	8945.9	9501.4	9539.9	9784.0
47.5°	15552.5	15541.0	15193.1	13457.3	11000.8	9778.2	9793.6	10162.7	11139.2	11621.6	12011.8
50°	17197.9	17253.7	16978.8	15838.9	13538.1	11702.4	11665.8	11911.9	13480.4	14270.4	14754.8
52.5°	19485.4	19564.2	18793.4	18061.0	16200.3	14089.7	14060.9	14318.5	16294.5	16886.5	16973.0
55°	21505.6	21371.0	20761.7	20550.3	19446.9	17038.4	17030.7	17257.5	19016.3	19268.2	19427.7
57.5°	22397.5	22345.6	22639.7	23124.1	22847.3	20523.4	20506.1	20333.1	21451.8	21478.7	21968.8
60°	22960.7	23024.1	23925.7	25419.2	26109.3	24273.6	24162.1	23106.8	23777.6	23718.1	24242.8
62.5°	22537.8	22662.8	24285.1	26774.4	28550.5	27547.1	27389.5	25647.9	25765.2	25559.5	26047.8
65°	20292.7	20486.8	23145.2	26518.7	29761.5	30105.5	29946.0	27891.2	27343.3	27005.0	26734.0
67.5°	16477.1	16592.4	19368.1	24294.7	29215.6	31631.8	31599.1	29857.6	28535.1	26760.9	24658.0
69°	13616.9	13730.3	16402.2	21953.5	28014.2	31958.5	32022.0	30488.0	28308.3	25277.0	21847.8
70°	11533.2	11654.3	14143.6	19946.7	26620.6	31806.7	31920.1	30428.5	27658.6	23558.5	19381.6
72.5°	6049.2	6153.0	8707.6	13741.8	21701.7	29205.9	29550.0	27856.6	23445.1	17109.5	11460.2
75°	1901.1	1960.6	3400.4	7183.3	14858.6	22708.9	22787.7	21851.6	16648.2	9411.1	4772.8
77.5°	724.7	707.4	1132.2	2646.9	7512.0	14299.3	14781.7	13655.3	8736.4	3327.3	1101.4
80°	390.2	392.1	588.2	1095.7	3213.9	7348.6	7756.1	6618.1	3104.4	1038.0	253.7
82.5°	169.2	176.8	330.6	580.5	1476.3	2710.3	2914.1	2425.8	1186.0	697.8	94.2
85°	36.5	40.4	159.5	315.2	601.6	761.2	797.7	786.2	755.4	542.1	36.5
87.5°	0.0	0.0	71.1	113.4	151.9	173.0	151.9	198.0	417.1	365.2	19.2
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°	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7	4107.7
2.5°	4111.6	4077.0	4017.4	3952.0	3905.9	3857.9	3819.4	3802.1	3782.9	3769.4	3786.7
5°	4103.9	4036.6	3921.3	3809.8	3729.1	3663.7	3609.9	3588.8	3567.6	3552.2	3550.3
7.5°	4171.2	4077.0	3900.1	3736.8	3611.8	3523.4	3450.4	3419.6	3394.6	3383.1	3373.5
10°	4300.0	4178.9	3942.4	3729.1	3567.6	3417.7	3260.1	3139.0	3060.1	3023.6	3010.2
12.5°	4467.2	4315.3	4023.2	3769.4	3534.9	3246.6	2912.1	2623.8	2437.4	2375.8	2339.3
15°	4663.3	4474.9	4128.9	3821.3	3415.8	2889.1	2322.0	1945.3	1772.3	1737.7	1699.2
17.5°	4851.6	4644.0	4255.8	3830.9	3154.3	2308.6	1701.1	1445.5	1378.2	1401.3	1407.1
20°	5016.9	4811.3	4380.7	3746.4	2679.5	1731.9	1316.7	1253.3	1278.3	1322.5	1330.2
22.5°	5184.2	4972.7	4496.0	3523.4	2072.1	1314.8	1186.0	1201.4	1226.4	1270.6	1278.3
25°	5387.9	5168.8	4603.7	3114.0	1555.1	1118.7	1126.4	1149.5	1174.5	1214.8	1218.7
27.5°	5622.4	5416.8	4674.8	2581.5	1153.3	1028.4	1053.4	1088.0	1113.0	1151.4	1159.1
30°	5933.8	5743.5	4697.9	2029.8	966.9	947.6	959.2	1001.5	1038.0	1072.6	1078.4
32.5°	6226.0	6066.5	4621.0	1532.0	895.7	872.7	872.7	897.7	940.0	972.6	980.3
35°	6495.1	6391.3	4374.9	1120.6	841.9	803.5	784.3	784.3	811.2	838.1	845.8
37.5°	6850.7	6846.9	3977.0	893.8	790.0	745.8	705.4	674.7	665.1	670.8	674.7
40°	7460.1	7465.8	3458.0	801.6	745.8	686.2	624.7	569.0	517.1	499.8	497.9
42.5°	8411.6	8325.1	2914.1	757.3	707.4	624.7	532.5	457.5	376.8	351.8	349.8
45°	9922.4	9409.2	2337.4	717.0	667.0	555.5	440.2	338.3	273.0	253.7	253.7
47.5°	12123.3	10833.5	1810.7	672.8	613.2	476.7	332.5	244.1	199.9	190.3	192.2
50°	14399.2	12229.1	1387.8	617.0	547.8	394.1	246.0	176.8	151.9	151.9	153.8
52.5°	16417.5	13251.7	1082.2	557.4	467.1	309.5	186.5	138.4	126.9	124.9	126.9
55°	18307.1	13911.0	828.5	488.2	371.0	230.7	142.2	113.4	105.7	101.9	100.0
57.5°	20129.3	14237.8	620.9	394.1	269.1	167.2	113.4	96.1	88.4	82.7	80.7
60°	21342.2	13972.5	426.7	290.3	186.5	121.1	94.2	82.7	73.0	67.3	65.4
62.5°	22026.5	13247.8	274.9	209.5	132.6	90.3	75.0	69.2	55.7	50.0	50.0
65°	21749.7	12052.2	192.2	149.9	96.1	67.3	55.7	55.7	40.4	32.7	30.8
67.5°	19273.9	10181.9	146.1	111.5	69.2	50.0	42.3	48.1	25.0	15.4	15.4
69°	16582.8	8438.5	124.9	92.3	57.7	40.4	36.5	44.2	17.3	11.5	9.6
70°	14412.7	7279.4	113.4	80.7	48.1	34.6	32.7	42.3	17.3	9.6	7.7
72.5°	8623.0	4059.7	86.5	57.7	30.8	26.9	26.9	48.1	17.3	9.6	7.7
75°	3485.0	1430.1	63.4	40.4	23.1	23.1	32.7	61.5	15.4	7.7	5.8
77.5°	790.0	313.3	36.5	25.0	15.4	23.1	38.4	48.1	9.6	3.8	0.0
80°	192.2	76.9	23.1	15.4	9.6	17.3	28.8	26.9	1.9	0.0	0.0
82.5°	63.4	26.9	9.6	7.7	1.9	5.8	13.5	7.7	0.0	0.0	0.0
85°	26.9	15.4	3.8	1.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0
87.5°	17.3	5.8	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)