

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: P382912

Luminaire Tested: **GAN-SA2D-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12248.9 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

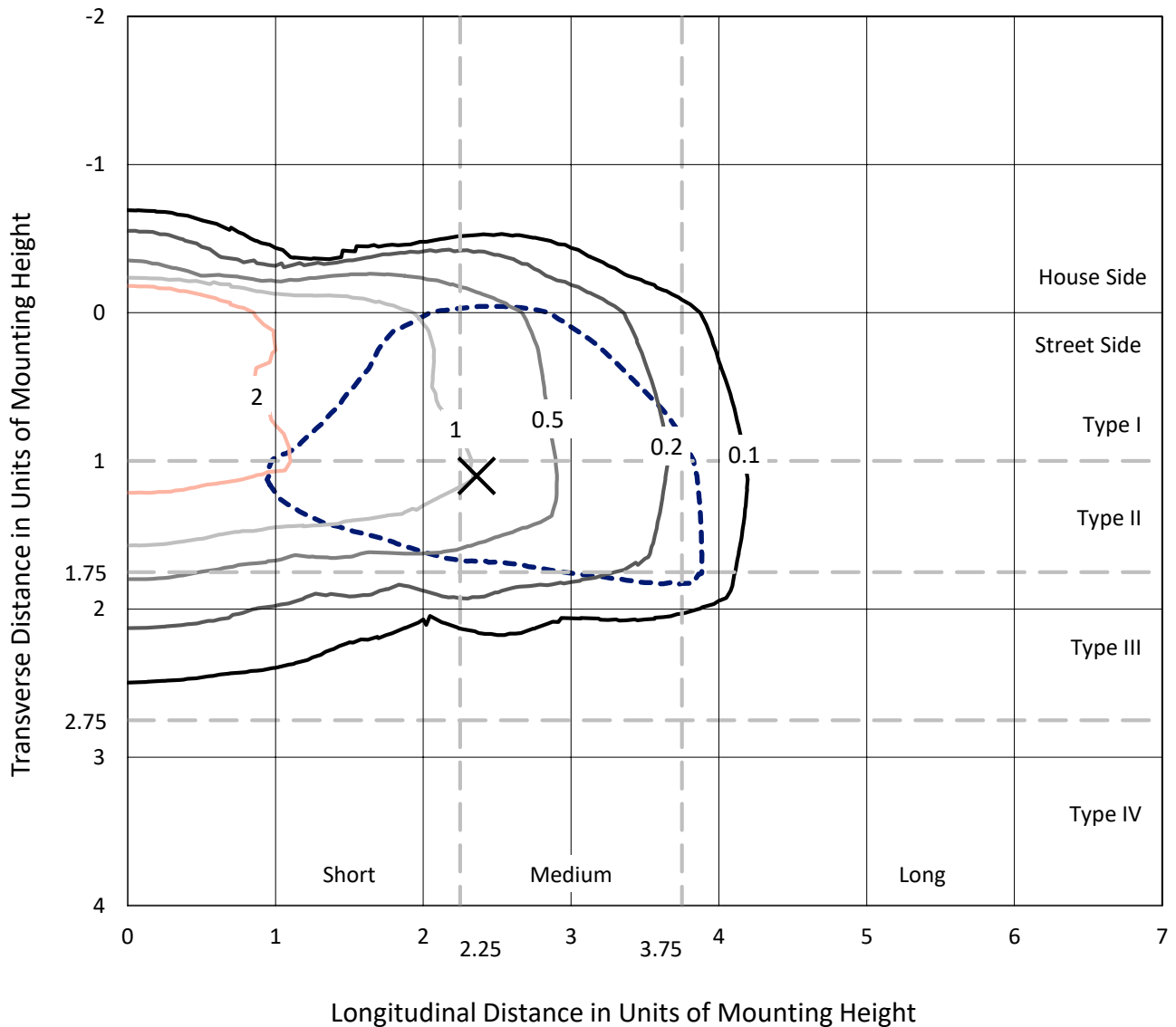
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

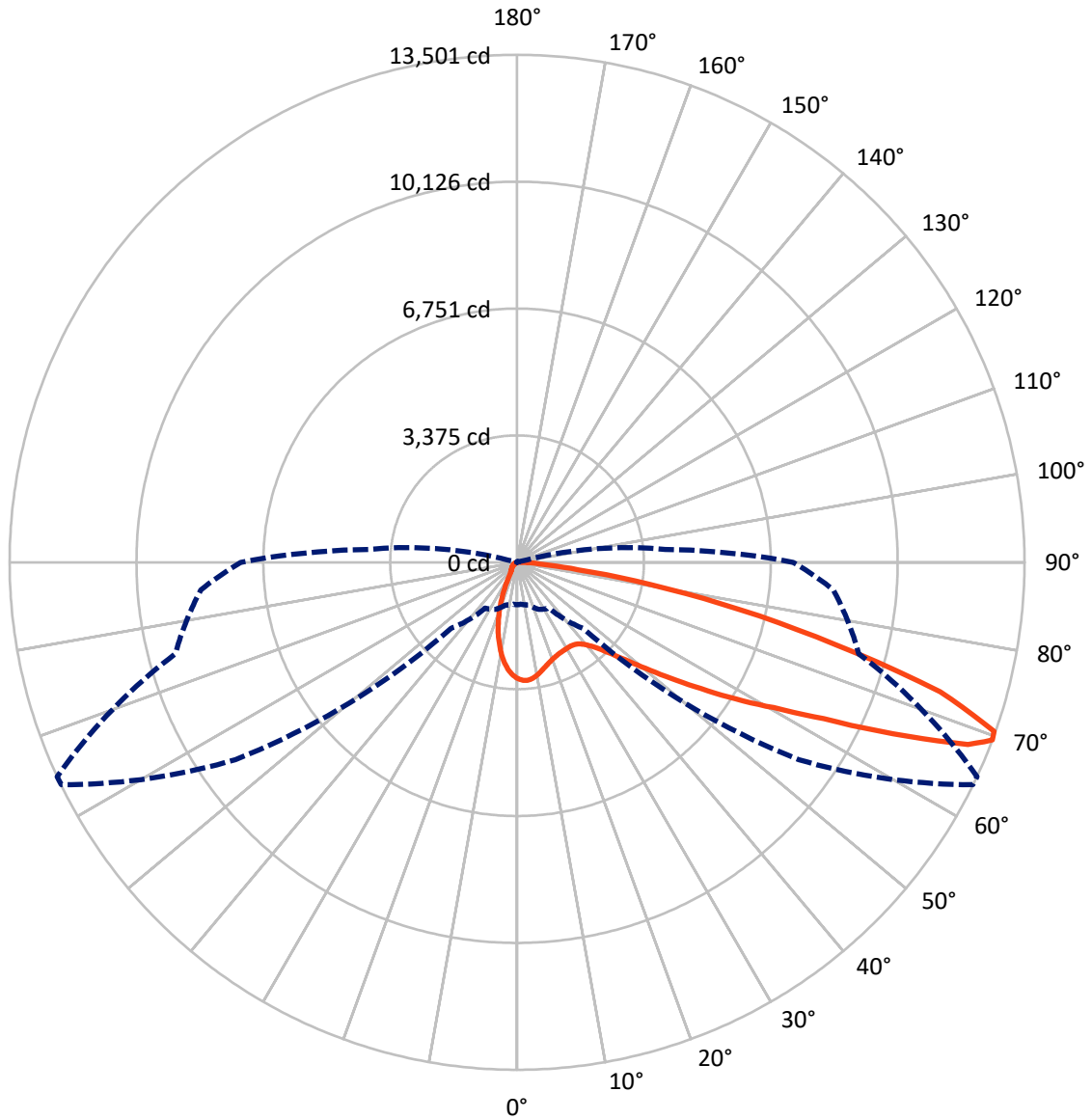
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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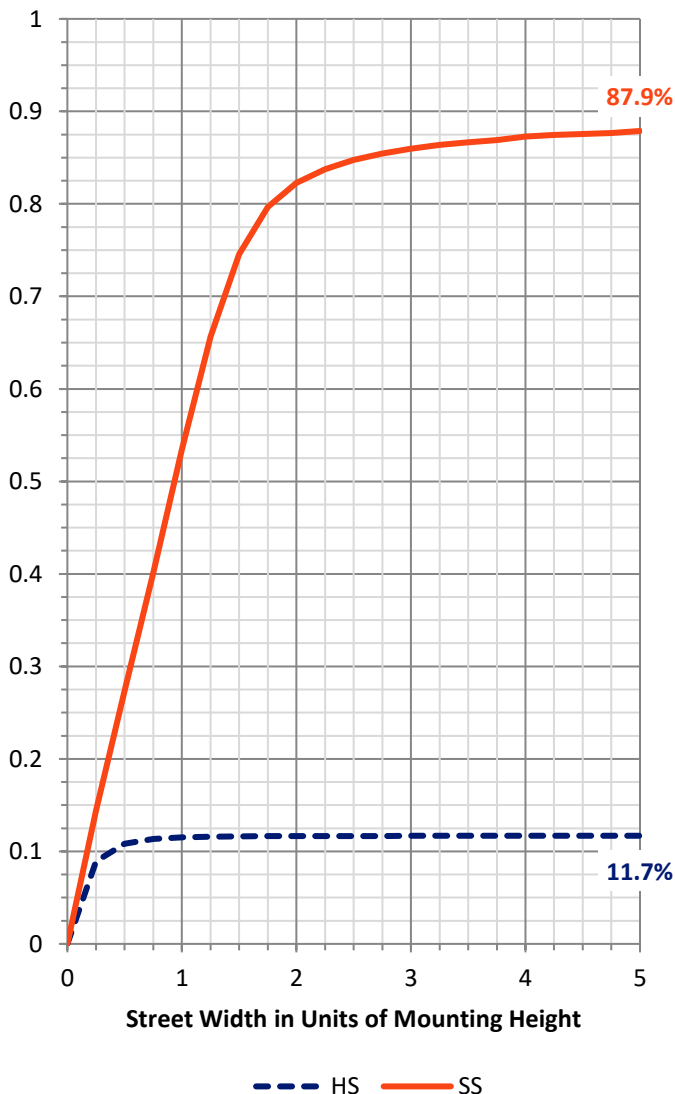
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1443.9	0.0	1443.9
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	10805.1	0.0	10805.1
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	12248.9	0.0	12248.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.8	2.1
10°-20°	566.6	4.6
20°-30°	784.8	6.4
30°-40°	1094.2	8.9
40°-50°	1700.8	13.9
50°-60°	2730.4	22.3
60°-70°	3088.5	25.2
70°-80°	1813.9	14.8
80°-90°	211.0	1.7
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°	12248.9	100.0
0°-180°	12248.9	100.0

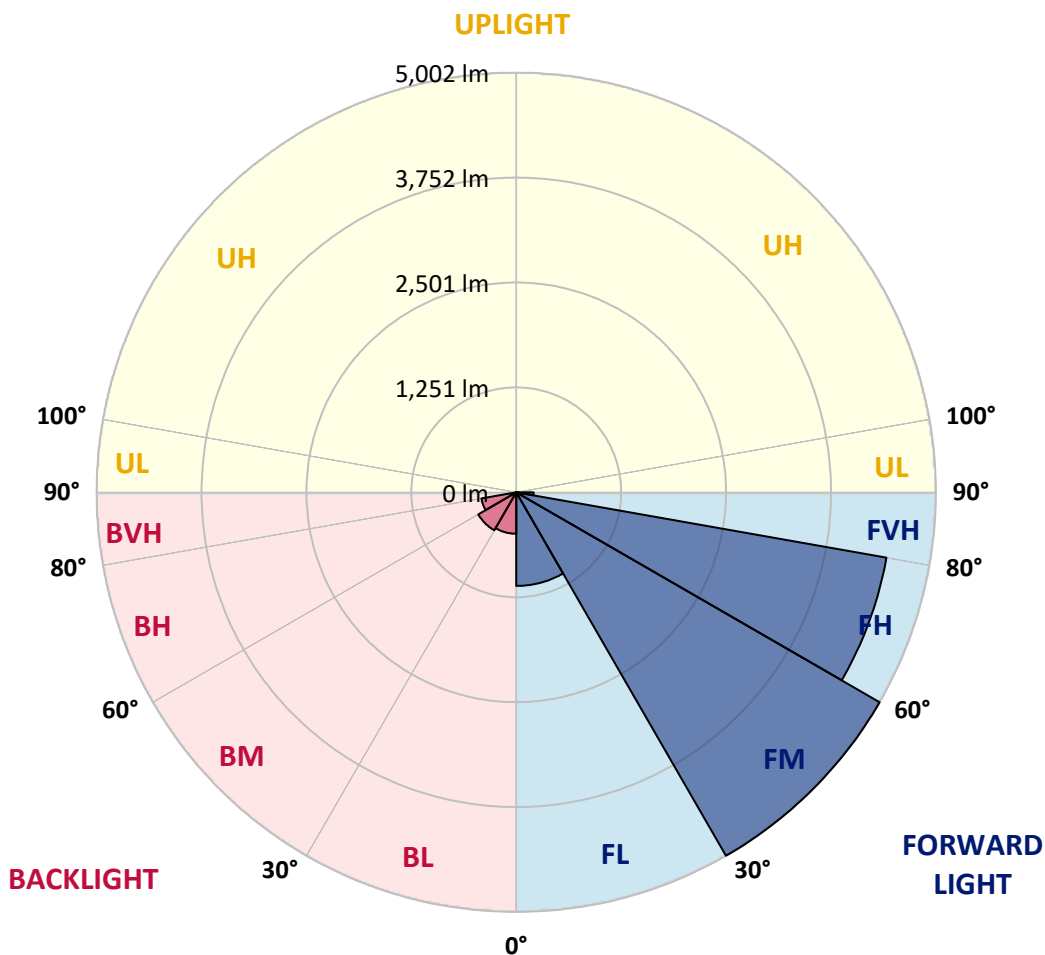


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1116.2	9.1			
FM (30°-60°)	5002.1	40.8			
FH (60°-80°)	4480.5	36.6			G2/5000
FVH (80°-90°)	206.3	1.7			G2/225
BL (0°-30°)	494.0	4.0	B1/500		
BM (30°-60°)	523.2	4.3	B1/1000		
BH (60°-80°)	421.9	3.4	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3
2.5°	3122.8	3115.0	3121.2	3134.8	3141.5	3141.5	3146.7	3140.4	3142.5	3127.5	3105.7
5°	2927.4	2915.5	2932.6	2970.4	3017.1	3057.0	3116.0	3147.1	3150.3	3150.8	3125.3
7.5°	2717.0	2706.1	2731.5	2776.0	2836.2	2910.2	3013.5	3103.6	3108.8	3157.5	3138.8
10°	2545.9	2538.2	2567.7	2615.4	2685.8	2768.7	2895.2	3020.7	3035.7	3143.5	3136.8
12.5°	2410.1	2403.9	2431.9	2486.9	2558.9	2650.6	2782.8	2928.4	2948.6	3111.9	3126.5
15°	2311.2	2310.1	2333.4	2386.3	2466.1	2551.6	2686.9	2842.9	2866.2	3077.7	3124.9
17.5°	2259.3	2260.9	2277.9	2323.1	2391.5	2476.4	2606.0	2770.9	2796.2	3047.1	3132.6
20°	2254.2	2255.6	2265.0	2290.4	2345.8	2421.0	2540.2	2710.2	2736.7	3024.3	3145.1
22.5°	2299.7	2298.7	2301.3	2298.7	2329.8	2386.8	2496.6	2663.6	2694.1	3009.3	3155.0
25°	2387.3	2385.8	2384.8	2365.6	2344.8	2375.4	2478.6	2637.1	2666.2	2998.4	3160.6
27.5°	2509.1	2508.1	2506.5	2474.9	2412.7	2393.5	2480.6	2627.3	2651.7	2989.6	3159.6
30°	2669.3	2676.5	2674.5	2630.4	2533.4	2449.0	2502.4	2622.1	2643.4	2972.5	3148.7
32.5°	2857.4	2872.0	2883.3	2836.2	2714.9	2558.9	2552.6	2627.8	2643.4	2959.5	3129.0
35°	3052.9	3071.5	3113.4	3096.8	2937.3	2724.2	2639.3	2662.0	2674.9	2966.8	3119.7
37.5°	3245.1	3267.4	3358.6	3406.9	3228.6	2942.9	2774.0	2746.5	2753.3	3010.9	3130.1
40°	3468.5	3502.2	3640.6	3718.4	3576.3	3235.8	2975.5	2891.6	2894.2	3107.7	3178.3
42.5°	3761.9	3796.6	3946.4	4068.2	3968.1	3605.8	3249.2	3113.4	3110.9	3289.2	3291.7
45°	4119.5	4155.8	4310.7	4446.0	4400.9	4044.3	3599.6	3437.4	3434.3	3575.3	3506.9
47.5°	4524.8	4560.6	4699.0	4838.4	4887.1	4556.4	4045.9	3879.5	3872.3	3972.8	3839.1
50°	4872.6	4895.9	5023.5	5211.1	5430.8	5185.6	4601.0	4440.9	4433.0	4501.0	4326.9
52.5°	4999.1	5012.6	5142.1	5404.9	5953.2	6037.7	5330.2	5124.0	5118.3	5147.8	4976.2
55°	4743.0	4767.4	4926.5	5316.2	6236.2	7000.8	6250.8	5969.8	5926.8	5863.1	5655.2
57.5°	4045.3	4084.3	4255.3	4773.6	6104.1	7764.7	7603.6	6926.6	6863.4	6473.6	6207.3
60°	3031.1	3078.8	3220.7	3780.0	5398.7	8036.8	9081.8	7992.8	7850.2	6959.8	6714.7
62.5°	2080.0	2103.8	2200.2	2564.6	3975.9	7591.1	10318.5	9420.7	9160.6	7488.5	7263.6
65°	1588.6	1596.9	1636.3	1761.7	2367.6	6166.3	10810.3	11304.8	10990.1	8120.9	7833.2
67.5°	1280.2	1273.5	1327.9	1507.2	1585.5	3761.9	10236.5	13087.2	12940.0	8966.1	8406.4
69°	1128.8	1119.5	1175.0	1383.3	1489.1	2486.9	9151.2	13492.1	13501.4	9412.5	8445.8
70°	1015.9	1022.1	1077.1	1309.8	1456.5	1952.0	8114.6	13388.9	13462.4	9579.3	8209.4
72.5°	678.4	695.0	805.4	1087.4	1400.5	1477.2	4899.6	11489.3	11772.2	9203.6	7043.2
75°	382.5	395.0	526.0	819.9	1319.6	1406.6	2587.9	8464.4	8738.1	7696.4	5431.3
77.5°	187.6	194.3	297.5	529.2	1103.5	1340.3	1467.8	5749.6	6062.1	5023.5	3072.0
80°	79.3	82.9	148.8	326.5	788.8	1279.2	1090.0	3538.5	3577.3	1968.0	818.4
82.5°	30.6	31.6	62.7	203.7	501.2	997.2	911.7	1677.7	1637.3	370.6	186.6
85°	3.6	4.2	22.8	122.3	278.8	513.1	740.7	723.1	669.1	73.6	95.9
87.5°	0.0	0.0	1.6	37.4	82.9	240.5	385.1	300.1	270.5	23.8	49.7
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°	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3
2.5°	3087.5	3082.4	3054.4	3013.9	2975.5	2927.9	2882.3	2854.8	2833.0	2818.6	2835.6
5°	3095.8	3073.1	2988.0	2879.2	2772.4	2652.2	2540.2	2445.4	2408.1	2366.6	2385.2
7.5°	3093.2	3050.3	2897.3	2703.4	2507.5	2304.9	2113.1	1965.4	1888.7	1813.5	1832.7
10°	3080.3	3007.7	2776.0	2488.9	2195.6	1904.3	1632.2	1425.4	1309.8	1205.0	1220.0
12.5°	3051.7	2950.7	2633.0	2243.3	1850.9	1466.8	1148.0	883.2	741.1	678.4	686.3
15°	3034.7	2895.2	2481.6	1994.4	1482.8	1021.5	701.8	521.9	457.1	436.4	439.0
17.5°	3026.4	2841.9	2325.1	1709.9	1106.6	650.5	453.5	400.1	386.1	382.5	383.5
20°	3018.1	2787.9	2163.9	1428.4	762.5	437.5	372.6	357.2	351.9	347.3	348.3
22.5°	3004.1	2736.1	1990.8	1143.4	514.1	355.0	335.8	320.8	309.9	304.2	305.3
25°	2987.0	2681.7	1814.1	851.6	375.2	316.7	298.6	277.3	264.4	253.9	254.5
27.5°	2959.5	2614.9	1631.6	619.9	315.1	283.5	259.2	235.9	214.1	202.1	202.1
30°	2921.1	2539.2	1429.0	443.7	282.4	250.9	221.3	192.3	169.0	158.1	157.1
32.5°	2878.7	2460.4	1224.2	336.4	256.5	220.3	186.6	156.0	135.3	126.5	125.9
35°	2842.4	2375.4	1020.0	282.0	230.7	190.8	153.9	128.0	111.4	104.1	103.7
37.5°	2819.0	2290.4	821.0	251.9	207.4	163.3	129.0	105.7	93.8	88.1	87.6
40°	2815.4	2227.1	639.0	229.1	185.6	138.9	107.8	89.7	78.8	72.6	72.0
42.5°	2862.6	2190.9	490.3	209.9	163.3	117.7	91.8	76.7	65.3	59.1	58.6
45°	2986.4	2202.3	377.4	192.8	140.9	99.5	77.8	63.7	53.4	48.7	47.7
47.5°	3212.4	2281.1	300.1	175.7	119.7	84.5	66.3	52.9	44.1	39.4	38.8
50°	3614.7	2466.1	250.9	157.1	100.0	72.0	55.0	43.0	35.8	31.6	31.1
52.5°	4148.6	2795.8	223.9	138.9	82.9	61.2	45.1	34.2	27.9	24.9	24.4
55°	4737.3	3194.8	206.2	119.2	67.9	50.8	35.8	26.9	21.8	19.2	18.2
57.5°	5312.2	3540.5	189.7	100.0	56.5	41.5	28.5	21.2	17.1	14.5	14.0
60°	5840.2	3858.3	170.6	80.3	46.1	32.7	22.3	16.6	13.5	10.9	10.9
62.5°	6405.8	4103.9	144.1	62.7	37.8	24.9	18.2	15.0	10.9	9.3	8.8
65°	7004.9	4286.4	113.0	48.7	29.5	18.6	15.0	15.6	8.8	6.7	6.2
67.5°	7447.5	4250.1	83.5	38.4	22.8	14.5	14.5	16.6	7.7	5.2	4.7
69°	7350.1	3955.2	70.0	33.2	19.7	12.5	13.5	16.6	7.3	4.7	4.2
70°	7067.7	3628.7	61.7	29.5	17.6	11.4	12.9	16.0	6.7	4.7	4.2
72.5°	5885.9	2733.1	48.2	22.3	14.0	9.3	10.9	14.0	6.7	4.7	3.6
75°	4427.4	1749.3	36.8	16.0	10.3	7.3	8.3	10.3	6.7	4.2	3.6
77.5°	2409.1	630.8	26.5	10.9	7.3	5.7	5.7	7.7	6.2	3.1	2.0
80°	619.4	158.6	16.6	7.3	5.7	4.2	3.6	5.2	3.6	0.6	0.0
82.5°	152.9	35.8	8.8	5.2	4.2	1.6	1.6	2.6	1.6	0.0	0.0
85°	83.9	17.6	5.7	3.6	2.0	0.0	0.0	0.6	0.0	0.0	0.0
87.5°	43.0	5.2	1.6	1.0	0.6	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)