

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: McGRAW-EDISON

Report Number: P647880

Luminaire Tested: **GALN-SA4A-835-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11717.6 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

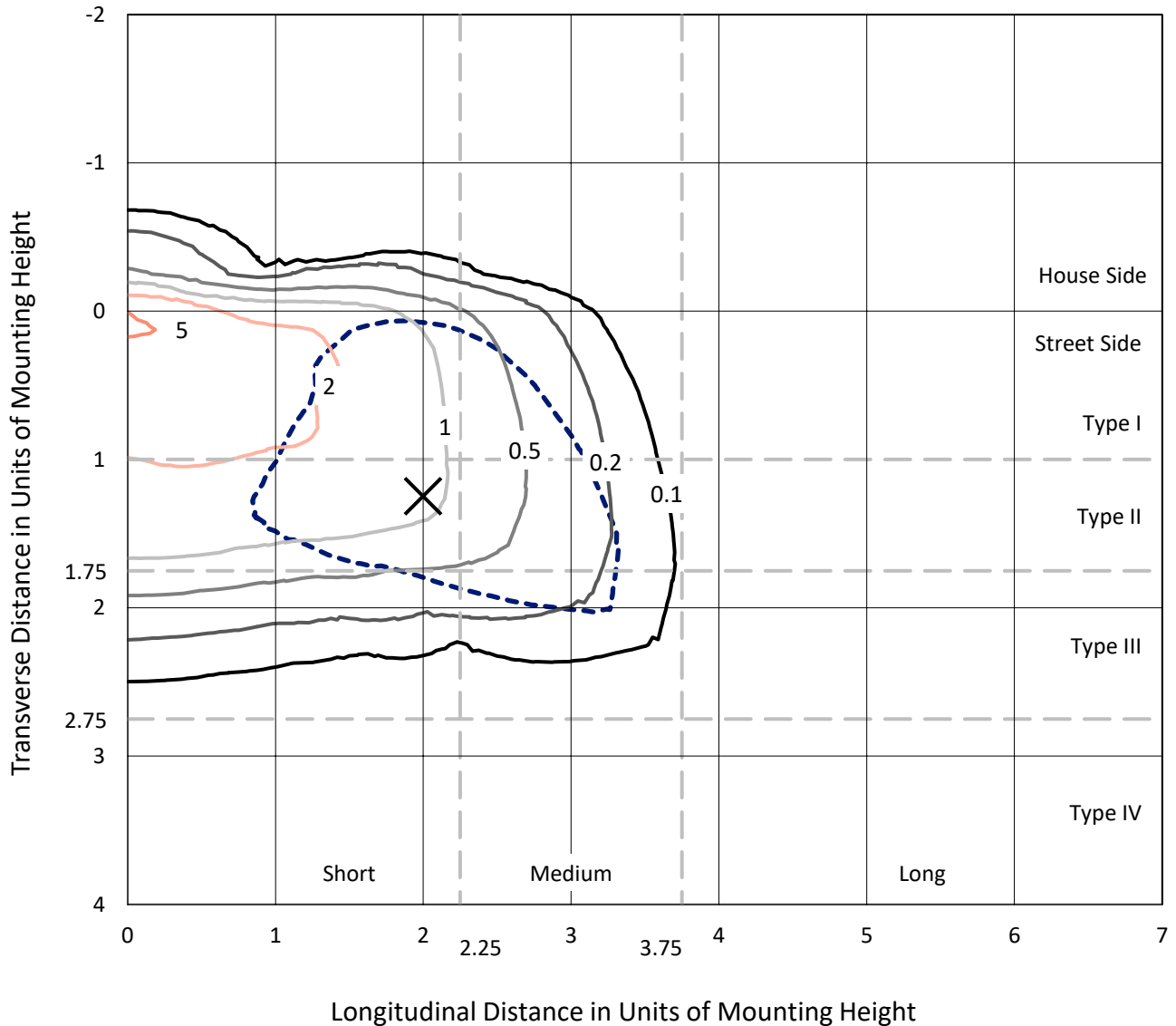
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

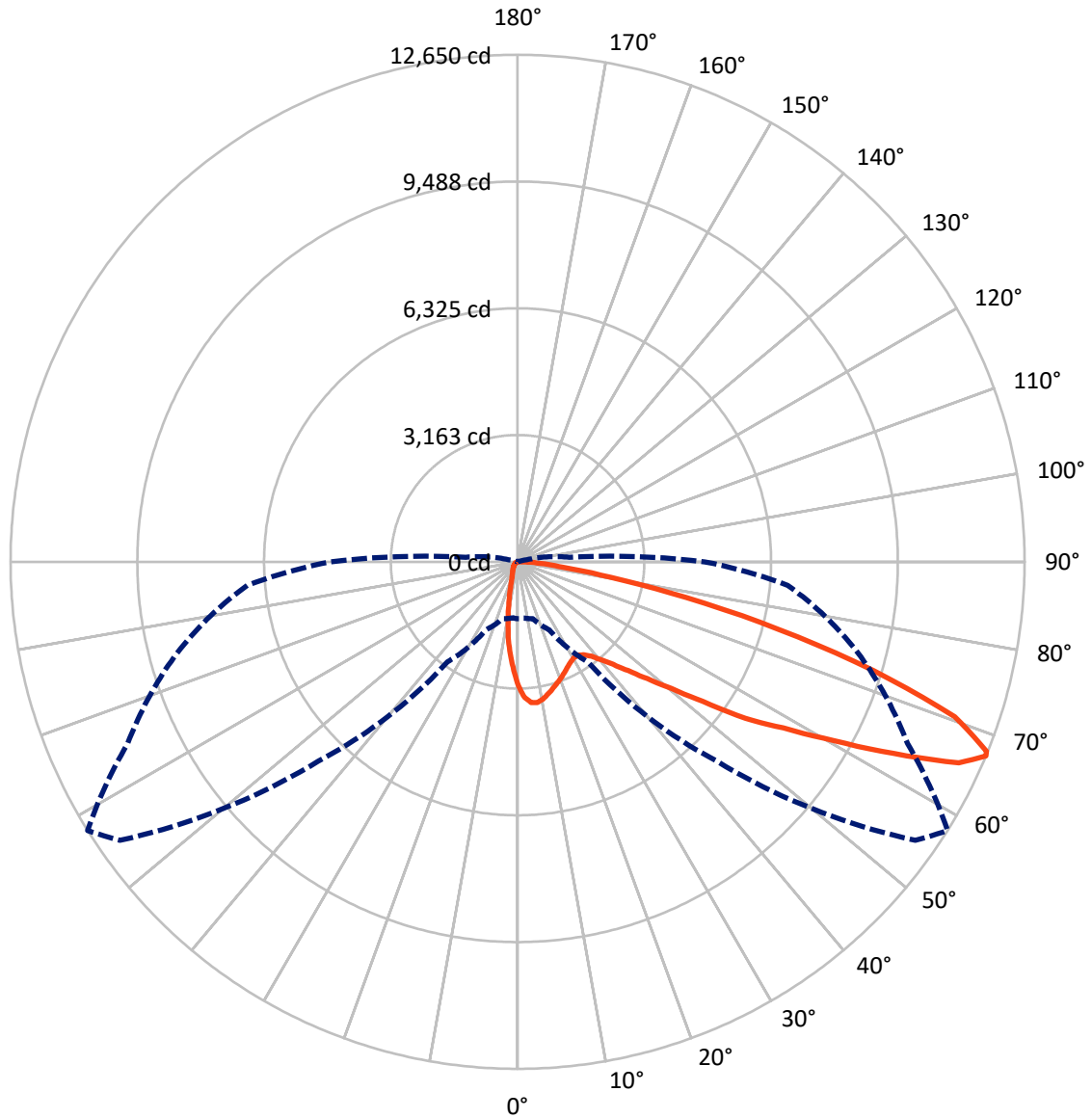
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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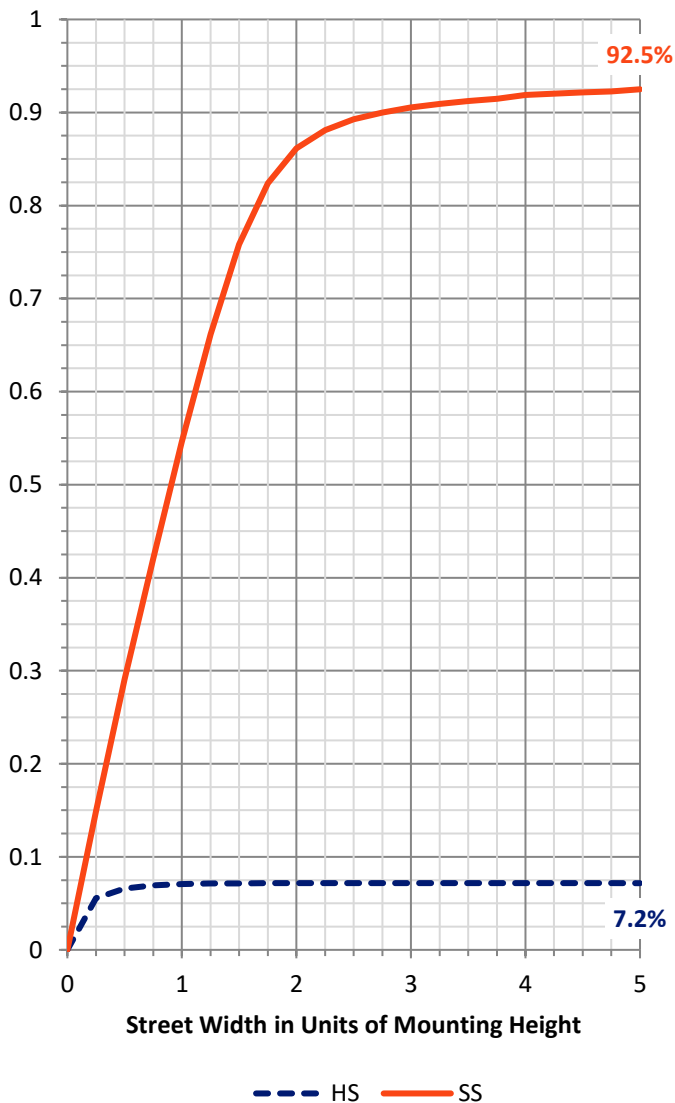
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	845.6	0.0	845.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	10872.0	0.0	10872.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	11717.6	0.0	11717.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.1	2.2
10°-20°	544.4	4.6
20°-30°	737.7	6.3
30°-40°	1023.1	8.7
40°-50°	1631.8	13.9
50°-60°	2820.7	24.1
60°-70°	3222.1	27.5
70°-80°	1343.3	11.5
80°-90°	142.4	1.2
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°	11717.6	100.0
0°-180°	11717.6	100.0

**Coefficient of Utilization**



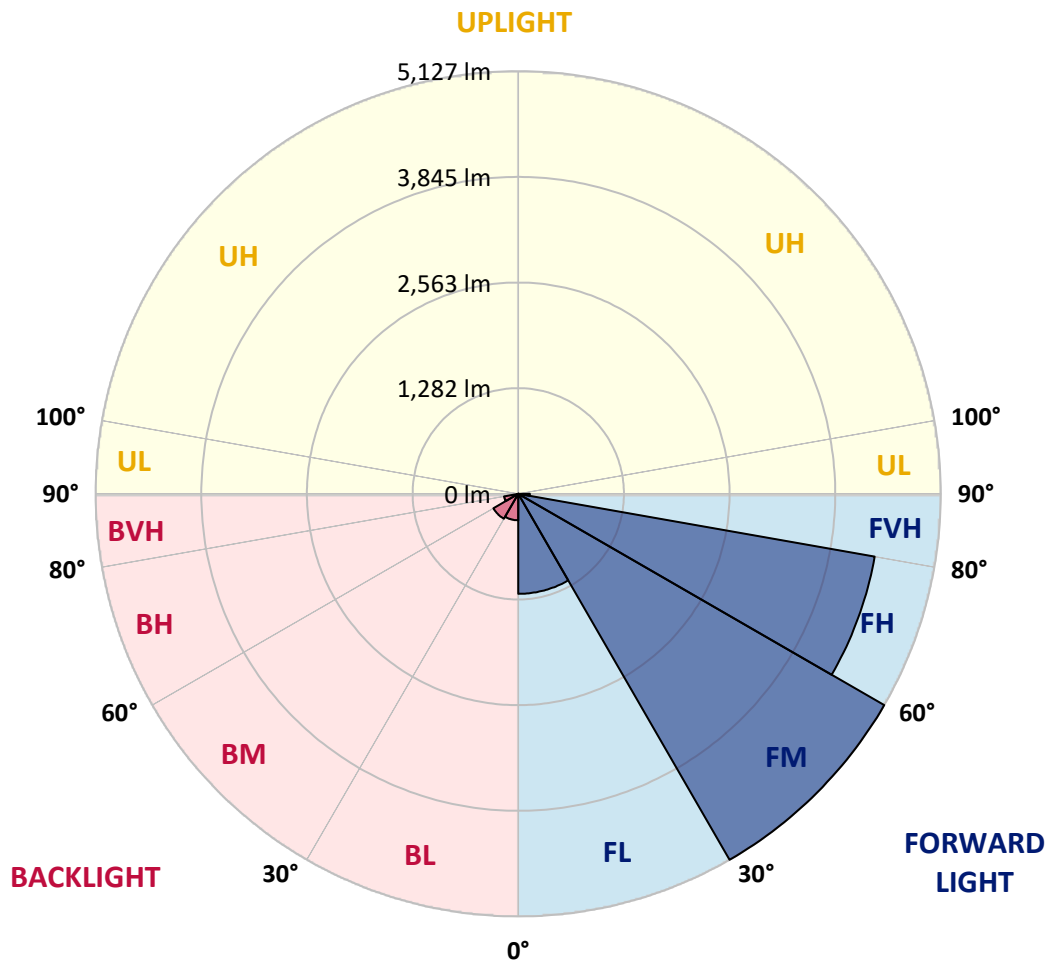
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1213.1	10.4			
FM (30°-60°)	5126.9	43.8			
FH (60°-80°)	4390.6	37.5			G2/5000
FVH (80°-90°)	141.4	1.2			G2/225
BL (0°-30°)	321.1	2.7	B1/500		
BM (30°-60°)	348.7	3.0	B1/1000		
BH (60°-80°)	174.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.0	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2
2.5°	3605.0	3610.5	3590.1	3573.7	3531.4	3486.0	3425.7	3393.6	3338.8	3244.0	3139.1
5°	3689.6	3696.6	3693.5	3689.6	3673.1	3629.3	3552.5	3524.4	3443.7	3289.5	3100.0
7.5°	3501.7	3527.5	3530.6	3561.2	3590.1	3594.0	3565.1	3543.9	3469.6	3288.7	3030.3
10°	3252.7	3269.9	3294.9	3330.2	3399.9	3457.8	3486.0	3482.9	3439.8	3264.4	2948.9
12.5°	3001.3	3010.7	3049.1	3109.4	3194.7	3293.4	3368.5	3383.4	3384.2	3235.4	2880.7
15°	2785.2	2781.3	2811.0	2880.7	3000.5	3124.2	3258.9	3282.4	3320.0	3207.2	2817.3
17.5°	2600.4	2620.8	2625.5	2702.2	2812.6	2973.1	3144.6	3186.1	3261.3	3183.0	2764.9
20°	2486.1	2497.1	2507.2	2550.3	2649.8	2818.9	3037.3	3094.5	3206.5	3161.0	2706.1
22.5°	2452.4	2459.5	2450.9	2464.2	2534.6	2685.0	2920.7	2996.6	3154.0	3140.7	2658.4
25°	2478.3	2485.3	2465.0	2449.3	2473.6	2576.1	2807.9	2900.3	3111.7	3136.8	2622.3
27.5°	2540.9	2554.2	2526.0	2497.8	2483.8	2517.4	2719.4	2826.7	3082.7	3155.6	2605.9
30°	2638.8	2646.6	2625.5	2591.0	2558.9	2525.3	2673.2	2775.8	3074.9	3199.4	2604.3
32.5°	2745.3	2761.7	2750.0	2727.3	2685.8	2605.9	2686.6	2777.4	3093.7	3262.8	2623.9
35°	2876.8	2895.6	2906.6	2901.9	2848.6	2749.2	2771.1	2847.8	3143.8	3379.5	2677.2
37.5°	3006.0	3022.5	3084.3	3105.5	3058.5	2964.5	2935.5	2986.4	3254.2	3532.2	2773.5
40°	3154.0	3175.9	3262.8	3343.5	3320.8	3222.1	3168.9	3211.2	3423.4	3762.4	2955.9
42.5°	3295.7	3334.9	3467.2	3609.7	3630.8	3520.4	3485.2	3499.3	3673.9	4093.6	3210.4
45°	3497.0	3533.8	3704.5	3897.9	3997.3	3911.2	3875.1	3872.8	4017.7	4559.5	3623.0
47.5°	3787.4	3820.3	4021.6	4212.6	4389.6	4401.3	4333.2	4356.7	4449.9	5104.5	4128.8
50°	4143.7	4221.2	4353.6	4552.4	4788.9	4980.0	5001.1	4969.8	5049.6	5735.6	4736.4
52.5°	4661.3	4691.0	4812.4	4976.0	5253.2	5577.5	5828.8	5785.7	5760.7	6337.0	5350.3
55°	5047.3	5087.2	5275.9	5500.7	5907.1	6334.6	6879.6	6894.5	6578.1	6914.8	5951.0
57.5°	4930.6	4991.7	5277.5	5729.4	6622.8	7404.2	7809.8	7820.0	7334.5	7476.2	6629.0
60°	4331.6	4360.6	4770.1	5373.0	6683.8	8563.0	9129.2	9046.9	8104.2	8104.2	7228.0
62.5°	3071.8	3117.2	3449.2	4336.3	6036.3	8965.5	10709.3	10539.4	9164.4	8704.8	7585.1
65°	1963.1	1919.2	2139.2	2737.4	4496.8	8371.2	12085.1	12095.2	10162.0	8945.1	7390.1
67°	1421.9	1404.7	1468.1	1871.4	3049.1	7037.0	12114.0	12650.4	10735.2	8793.2	6766.8
67.5°	1300.6	1313.9	1360.1	1688.1	2770.3	6403.5	11982.5	12617.5	10864.4	8701.6	6541.3
70°	985.8	963.1	1013.2	1194.1	1660.7	4039.6	10307.6	11572.2	10703.8	7792.6	5226.6
72.5°	725.1	722.7	792.4	976.4	1278.6	2151.8	7737.8	9278.8	8744.7	5933.7	3291.0
75°	489.4	511.3	622.5	815.9	1158.8	1395.3	5275.1	6731.6	6070.8	3369.3	1345.2
77.5°	278.7	280.3	400.9	655.4	1040.6	1122.8	3125.8	4288.6	3213.5	1120.5	399.3
80°	120.6	132.3	198.9	476.1	862.9	994.4	1792.3	2356.9	1299.8	237.2	129.2
82.5°	44.6	52.5	87.7	292.8	629.5	819.0	1082.9	1125.2	440.8	83.8	80.6
85°	0.0	1.6	32.1	137.0	328.1	365.7	723.5	667.1	195.0	39.9	52.5
87.5°	0.0	0.0	0.0	14.1	43.1	136.2	224.7	250.6	47.0	14.1	12.5
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°	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2	3106.2
2.5°	3082.7	3031.9	2904.2	2776.6	2681.9	2602.8	2483.8	2418.8	2384.3	2333.4	2336.6
5°	3005.2	2901.9	2677.2	2444.6	2256.7	2073.5	1854.2	1765.7	1691.3	1649.0	1620.8
7.5°	2890.1	2737.4	2404.7	2094.6	1805.6	1485.4	1245.0	1084.5	976.4	936.5	898.1
10°	2764.1	2561.3	2128.3	1698.3	1297.4	967.0	763.4	616.2	563.8	515.2	519.9
12.5°	2647.4	2400.8	1874.6	1340.5	909.1	614.7	479.2	418.9	401.7	396.2	396.2
15°	2551.9	2247.3	1602.0	1007.7	623.3	441.6	383.7	367.2	361.0	359.4	359.4
17.5°	2450.1	2101.7	1356.2	744.6	453.4	369.6	350.0	339.0	336.7	335.1	335.1
20°	2359.3	1955.2	1122.8	554.4	366.4	332.8	320.2	313.2	310.9	309.3	310.1
22.5°	2273.1	1825.2	903.6	418.9	322.6	303.0	290.5	283.4	278.7	274.8	275.6
25°	2196.4	1699.9	726.6	343.0	290.5	273.3	260.7	250.6	240.4	235.7	234.9
27.5°	2142.4	1590.3	566.1	293.6	261.5	242.7	227.1	214.5	201.2	194.2	192.6
30°	2097.7	1479.1	447.9	259.2	232.6	214.5	195.0	177.0	162.9	155.8	152.7
32.5°	2068.8	1373.4	353.1	231.0	208.3	186.4	164.4	146.4	130.8	123.7	122.1
35°	2064.1	1284.9	288.9	207.5	186.4	162.9	140.2	120.6	107.3	100.2	98.7
37.5°	2097.7	1216.8	241.9	188.7	168.3	142.5	117.4	99.4	87.7	82.2	81.4
40°	2187.8	1173.7	209.8	173.0	151.9	123.7	100.2	84.6	72.8	67.3	67.3
42.5°	2359.3	1175.3	188.7	158.2	135.5	105.7	85.3	70.5	60.3	55.6	54.0
45°	2627.0	1228.5	170.7	143.3	119.8	91.6	72.8	57.9	47.8	43.8	43.8
47.5°	2985.7	1334.2	155.0	128.4	105.7	78.3	61.9	47.0	38.4	34.5	34.5
50°	3454.7	1504.1	141.7	115.9	94.0	67.3	50.1	38.4	29.8	26.6	25.8
52.5°	3944.8	1714.0	126.1	104.9	80.6	57.2	40.7	29.8	22.7	20.4	19.6
55°	4485.9	1919.2	111.2	94.0	65.8	47.8	32.1	23.5	16.4	14.1	14.1
57.5°	5031.6	2120.4	93.2	78.3	51.7	35.2	25.1	17.2	11.0	8.6	8.6
60°	5493.6	2185.4	79.1	63.4	39.2	25.1	18.0	11.0	6.3	3.9	3.9
62.5°	5557.1	1966.2	66.6	48.5	28.2	17.2	9.4	6.3	2.3	1.6	1.6
65°	5212.5	1597.3	55.6	36.8	18.8	8.6	3.9	2.3	0.8	0.0	0.0
67°	4670.7	1295.1	45.4	27.4	13.3	5.5	2.3	0.8	0.0	0.0	0.0
67.5°	4532.1	1234.8	43.8	25.8	11.7	4.7	1.6	0.8	0.0	0.0	0.0
70°	3556.5	924.7	31.3	15.7	7.0	3.1	0.0	0.0	0.0	0.0	0.0
72.5°	2210.5	523.0	22.7	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0
75°	835.5	183.2	15.7	6.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	260.0	69.7	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.7	26.6	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.0	11.0	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	1.6	0.8	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)