

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: P647935

Luminaire Tested: **GALN-SA5A-835-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647935  
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-SA5A-835-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 14833.9 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

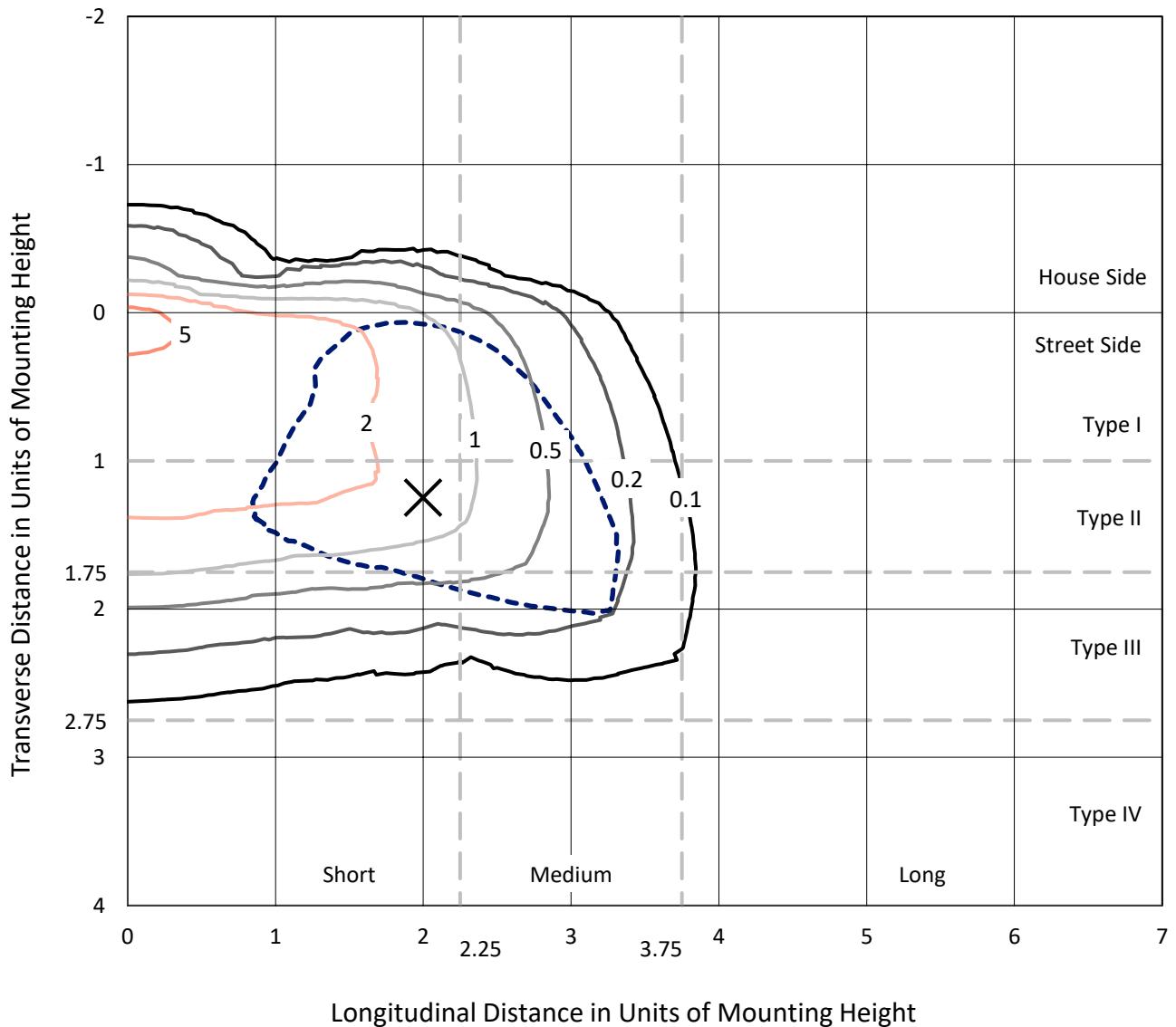
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

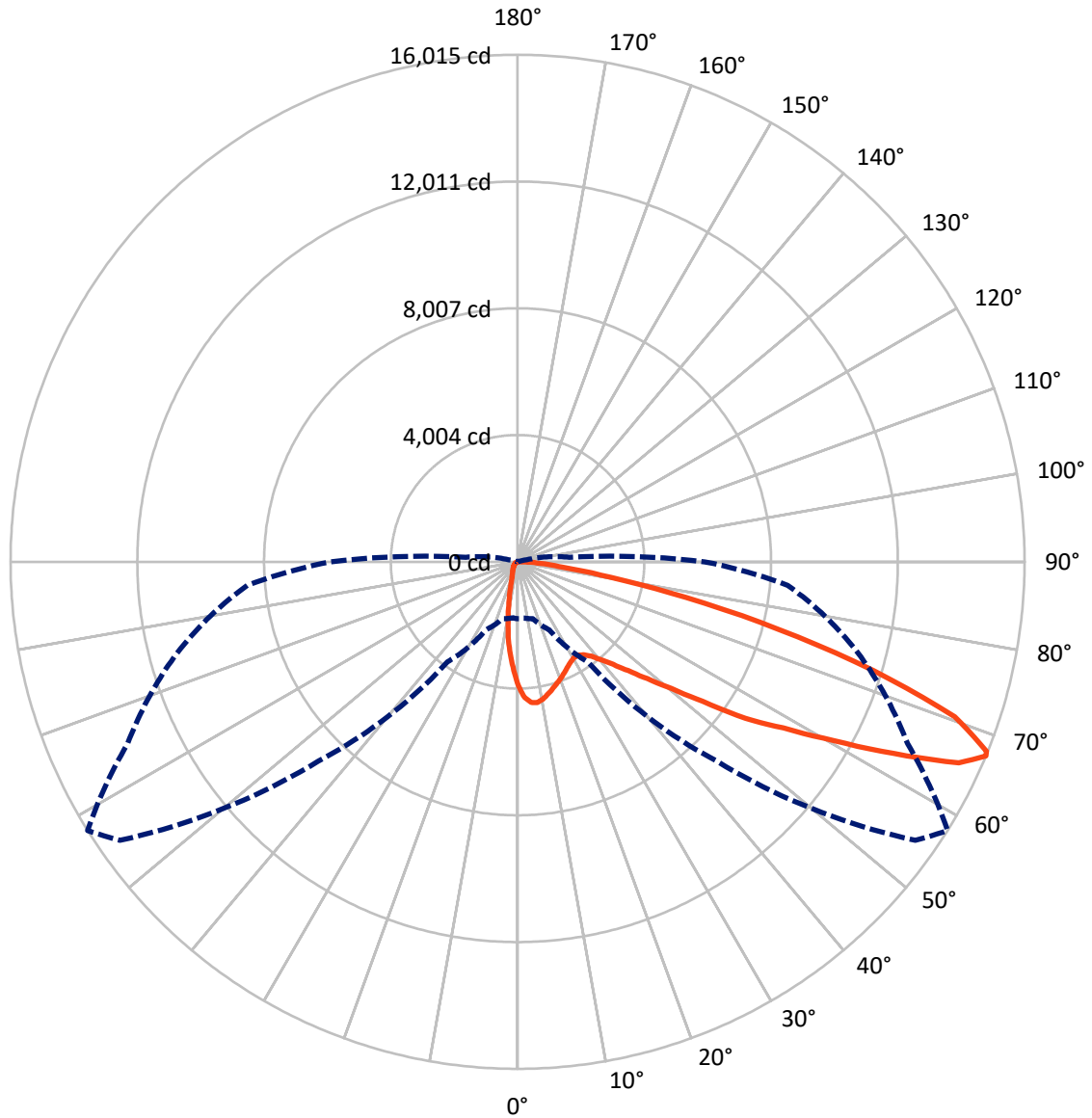
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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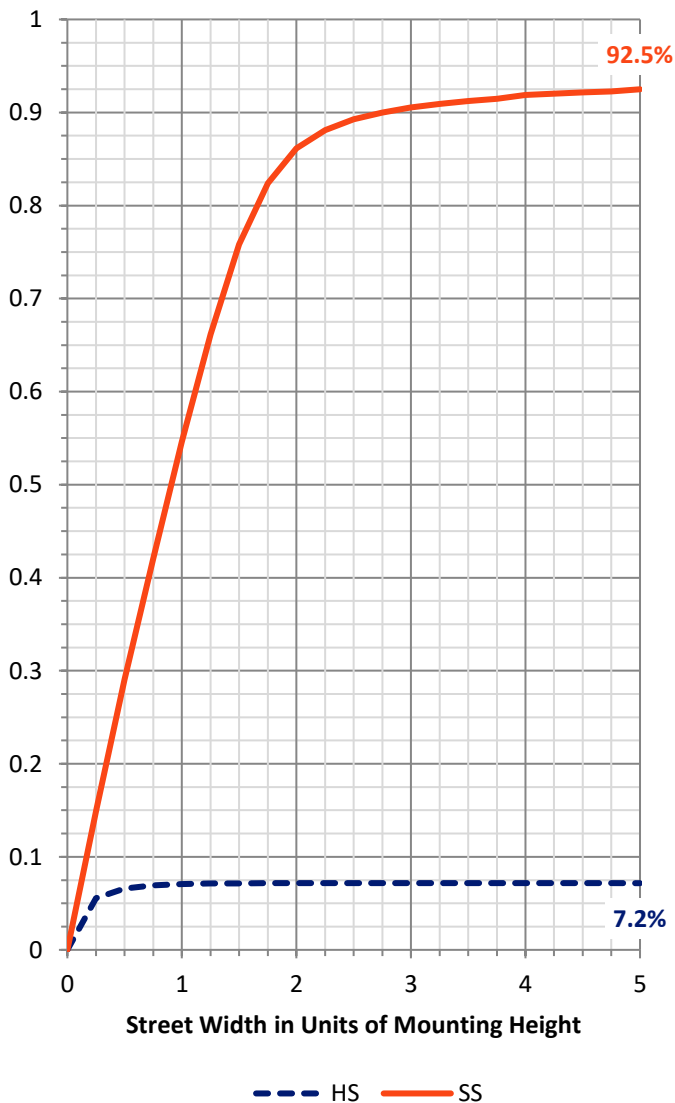
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1070.5	0.0	1070.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	13763.4	0.0	13763.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	14833.9	0.0	14833.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.1	2.2
10°-20°	689.2	4.6
20°-30°	933.9	6.3
30°-40°	1295.2	8.7
40°-50°	2065.8	13.9
50°-60°	3570.9	24.1
60°-70°	4079.0	27.5
70°-80°	1700.6	11.5
80°-90°	180.3	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°	14833.9	100.0
0°-180°	14833.9	100.0

**Coefficient of Utilization**

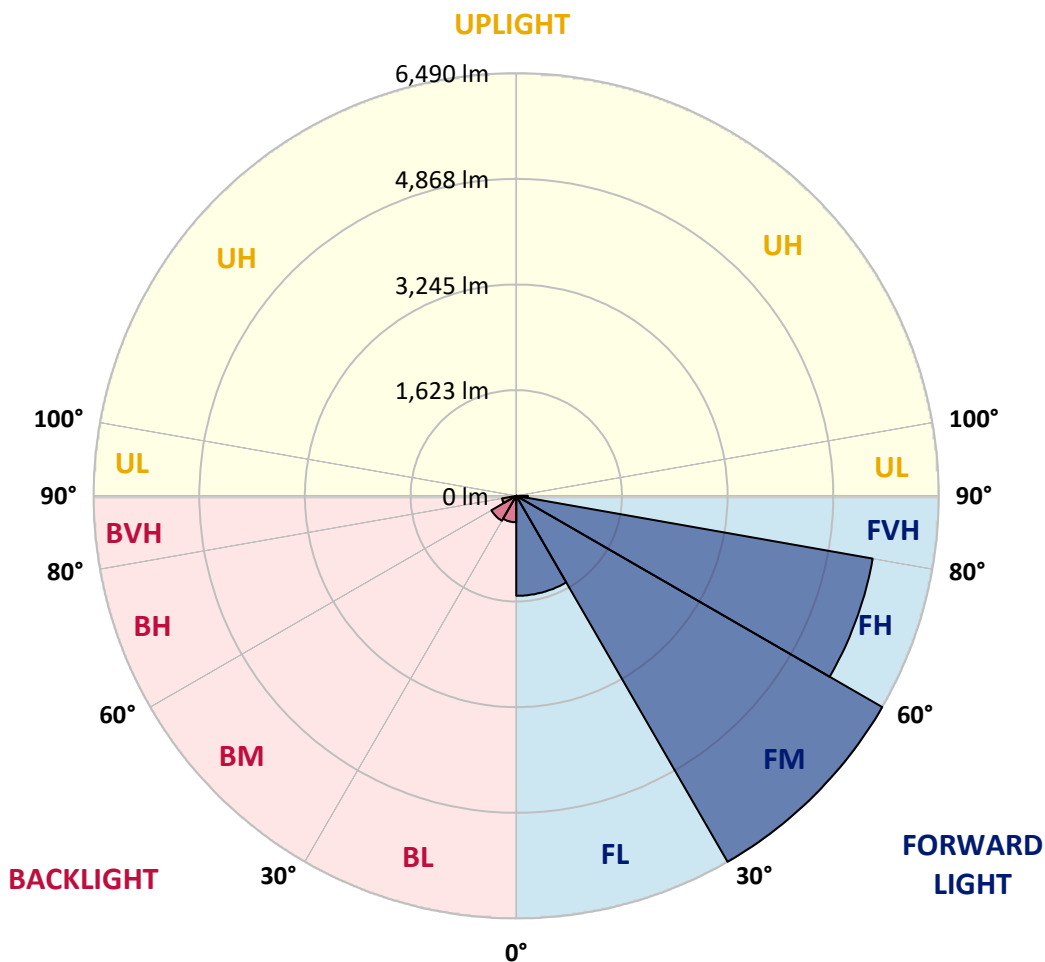


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.7	10.4			
FM (30°-60°)	6490.5	43.8			
FH (60°-80°)	5558.3	37.5			G3/7500
FVH (80°-90°)	179.0	1.2			G2/225
BL (0°-30°)	406.5	2.7	B1/500		
BM (30°-60°)	441.4	3.0	B1/1000		
BH (60°-80°)	221.3	1.5	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3
2.5°	4563.8	4570.7	4544.9	4524.1	4470.6	4413.1	4336.8	4296.2	4226.7	4106.8	3974.0
5°	4670.8	4679.8	4675.8	4670.8	4650.0	4594.5	4497.4	4461.7	4359.6	4164.3	3924.4
7.5°	4433.0	4465.6	4469.6	4508.3	4544.9	4549.9	4513.2	4486.4	4392.3	4163.3	3836.2
10°	4117.7	4139.5	4171.2	4215.8	4304.1	4377.4	4413.1	4409.2	4354.7	4132.6	3733.1
12.5°	3799.5	3811.4	3860.0	3936.3	4044.4	4169.2	4264.4	4283.2	4284.3	4095.9	3646.8
15°	3525.9	3521.0	3558.7	3646.8	3798.5	3955.2	4125.6	4155.4	4203.0	4060.2	3566.6
17.5°	3292.0	3317.7	3323.7	3420.8	3560.6	3763.8	3980.9	4033.5	4128.6	4029.5	3500.2
20°	3147.3	3161.1	3174.0	3228.5	3354.5	3568.5	3845.1	3917.5	4059.2	4001.8	3425.8
22.5°	3104.7	3113.5	3102.6	3119.5	3208.7	3399.0	3697.4	3793.6	3992.8	3975.9	3365.3
25°	3137.3	3146.3	3120.5	3100.7	3131.4	3261.3	3554.7	3671.6	3939.3	3971.0	3319.8
27.5°	3216.6	3233.5	3197.9	3162.1	3144.3	3186.9	3442.7	3578.5	3902.6	3994.8	3298.9
30°	3340.6	3350.5	3323.7	3280.1	3239.4	3196.8	3384.2	3514.0	3892.7	4050.3	3297.0
32.5°	3475.3	3496.2	3481.3	3452.6	3400.0	3298.9	3401.0	3516.0	3916.5	4130.6	3321.7
35°	3641.9	3665.7	3679.6	3673.6	3606.2	3480.4	3508.1	3605.2	3979.9	4278.3	3389.1
37.5°	3805.5	3826.3	3904.6	3931.4	3871.9	3752.9	3716.3	3780.7	4119.7	4471.6	3511.1
40°	3992.8	4020.5	4130.6	4232.7	4203.9	4079.0	4011.6	4065.2	4333.8	4763.0	3742.0
42.5°	4172.2	4221.8	4389.3	4569.7	4596.5	4456.7	4412.1	4430.0	4651.0	5182.3	4064.2
45°	4427.0	4473.6	4689.7	4934.5	5060.4	4951.4	4905.7	4902.8	5086.1	5772.1	4586.6
47.5°	4794.7	4836.4	5091.1	5333.0	5557.0	5571.9	5485.6	5515.4	5633.4	6462.0	5226.9
50°	5245.8	5343.9	5511.5	5763.2	6062.5	6304.4	6331.2	6291.6	6392.6	7261.0	5996.1
52.5°	5901.0	5938.7	6092.3	6299.5	6650.4	7060.8	7379.0	7324.4	7292.7	8022.3	6773.3
55°	6389.7	6440.3	6679.1	6963.6	7478.1	8019.3	8709.2	8728.1	8327.6	8753.9	7533.6
57.5°	6242.0	6319.3	6681.1	7253.1	8384.1	9373.4	9886.9	9899.7	9285.1	9464.6	8392.0
60°	5483.7	5520.3	6038.8	6802.1	8461.4	10840.5	11557.2	11453.0	10259.6	10259.6	9150.4
62.5°	3888.7	3946.2	4366.5	5489.6	7641.6	11350.0	13557.5	13342.4	11601.7	11019.9	9602.4
65°	2485.1	2429.6	2708.2	3465.5	5692.8	10597.6	15299.1	15312.0	12864.6	11324.2	9355.5
67°	1800.1	1778.3	1858.6	2369.1	3860.0	8908.5	15335.8	16014.9	13590.2	11131.9	8566.5
67.5°	1646.5	1663.3	1721.8	2137.2	3507.1	8106.6	15169.3	15973.2	13753.8	11015.9	8281.0
70°	1248.0	1219.3	1282.7	1511.7	2102.4	5113.9	13049.0	14649.9	13550.6	9865.0	6616.7
72.5°	917.9	914.9	1003.2	1236.1	1618.7	2724.0	9795.6	11746.5	11070.4	7511.8	4166.3
75°	619.5	647.3	788.1	1032.9	1467.1	1766.4	6678.1	8521.9	7685.2	4265.4	1703.0
77.5°	352.9	354.9	507.5	829.7	1317.4	1421.5	3957.1	5429.2	4068.2	1418.5	505.6
80°	152.7	167.6	251.8	602.7	1092.4	1258.9	2269.0	2983.7	1645.5	300.4	163.6
82.5°	56.5	66.4	111.0	370.8	796.9	1036.8	1371.0	1424.4	558.0	106.1	102.1
85°	0.0	2.0	40.6	173.4	415.3	462.9	916.0	844.5	246.8	50.6	66.4
87.5°	0.0	0.0	0.0	17.9	54.5	172.5	284.5	317.2	59.5	17.9	15.9
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°	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3	3932.3
2.5°	3902.6	3838.2	3676.6	3515.0	3395.1	3294.9	3144.3	3062.0	3018.4	2953.9	2957.9
5°	3804.4	3673.6	3389.1	3094.7	2856.9	2624.9	2347.3	2235.3	2141.1	2087.6	2051.9
7.5°	3658.7	3465.5	3044.1	2651.6	2285.9	1880.5	1576.1	1372.9	1236.1	1185.5	1137.0
10°	3499.1	3242.4	2694.2	2150.0	1642.5	1224.2	966.5	780.1	713.7	652.2	658.2
12.5°	3351.5	3039.2	2373.1	1697.1	1150.9	778.1	606.7	530.3	508.5	501.6	501.6
15°	3230.5	2845.0	2028.1	1275.7	789.0	559.1	485.7	464.9	457.0	455.0	455.0
17.5°	3101.7	2660.6	1716.9	942.7	573.9	467.8	443.1	429.2	426.3	424.2	424.2
20°	2986.7	2475.2	1421.5	701.8	463.9	421.3	405.4	396.5	393.5	391.6	392.5
22.5°	2877.6	2310.6	1143.9	530.3	408.4	383.6	367.8	358.8	352.9	348.0	348.9
25°	2780.5	2152.0	919.9	434.2	367.8	345.9	330.1	317.2	304.4	298.4	297.4
27.5°	2712.1	2013.2	716.7	371.7	331.1	307.3	287.4	271.6	254.8	245.9	243.8
30°	2655.6	1872.5	567.0	328.1	294.4	271.6	246.8	224.0	206.2	197.2	193.3
32.5°	2618.9	1738.7	447.1	292.5	263.7	235.9	208.2	185.3	165.5	156.6	154.6
35°	2612.9	1626.7	365.7	262.7	235.9	206.2	177.4	152.7	135.8	126.8	124.9
37.5°	2655.6	1540.4	306.3	238.9	213.1	180.4	148.7	125.9	111.0	104.1	103.1
40°	2769.6	1485.9	265.7	219.1	192.3	156.6	126.8	107.0	92.2	85.3	85.3
42.5°	2986.7	1487.9	238.9	200.2	171.5	133.8	108.1	89.2	76.3	70.4	68.4
45°	3325.7	1555.3	216.1	181.4	151.7	116.0	92.2	73.4	60.4	55.5	55.5
47.5°	3779.7	1689.1	196.3	162.6	133.8	99.1	78.3	59.5	48.5	43.6	43.6
50°	4373.4	1904.2	179.4	146.7	118.9	85.3	63.4	48.5	37.7	33.7	32.7
52.5°	4994.0	2169.8	159.6	132.8	102.1	72.3	51.5	37.7	28.7	25.8	24.7
55°	5678.9	2429.6	140.8	118.9	83.2	60.4	40.6	29.8	20.8	17.9	17.9
57.5°	6369.9	2684.4	118.0	99.1	65.5	44.6	31.7	21.8	13.9	10.9	10.9
60°	6954.7	2766.7	100.1	80.3	49.6	31.7	22.8	13.9	7.9	4.9	4.9
62.5°	7035.0	2489.1	84.3	61.5	35.7	21.8	11.9	7.9	3.0	2.0	2.0
65°	6598.8	2022.2	70.4	46.6	23.8	10.9	4.9	3.0	1.0	0.0	0.0
67°	5912.9	1639.5	57.5	34.7	16.8	7.0	3.0	1.0	0.0	0.0	0.0
67.5°	5737.4	1563.3	55.5	32.7	14.9	6.0	2.0	1.0	0.0	0.0	0.0
70°	4502.3	1170.7	39.6	19.8	8.9	4.0	0.0	0.0	0.0	0.0	0.0
72.5°	2798.4	662.2	28.7	11.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1057.7	231.9	19.8	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	329.1	88.2	11.9	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.0	33.7	7.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.4	13.9	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.6	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	2.0	1.0	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)