

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: P455379

Luminaire Tested: **GALN-SA6C-740-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1050mA 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: 30159 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

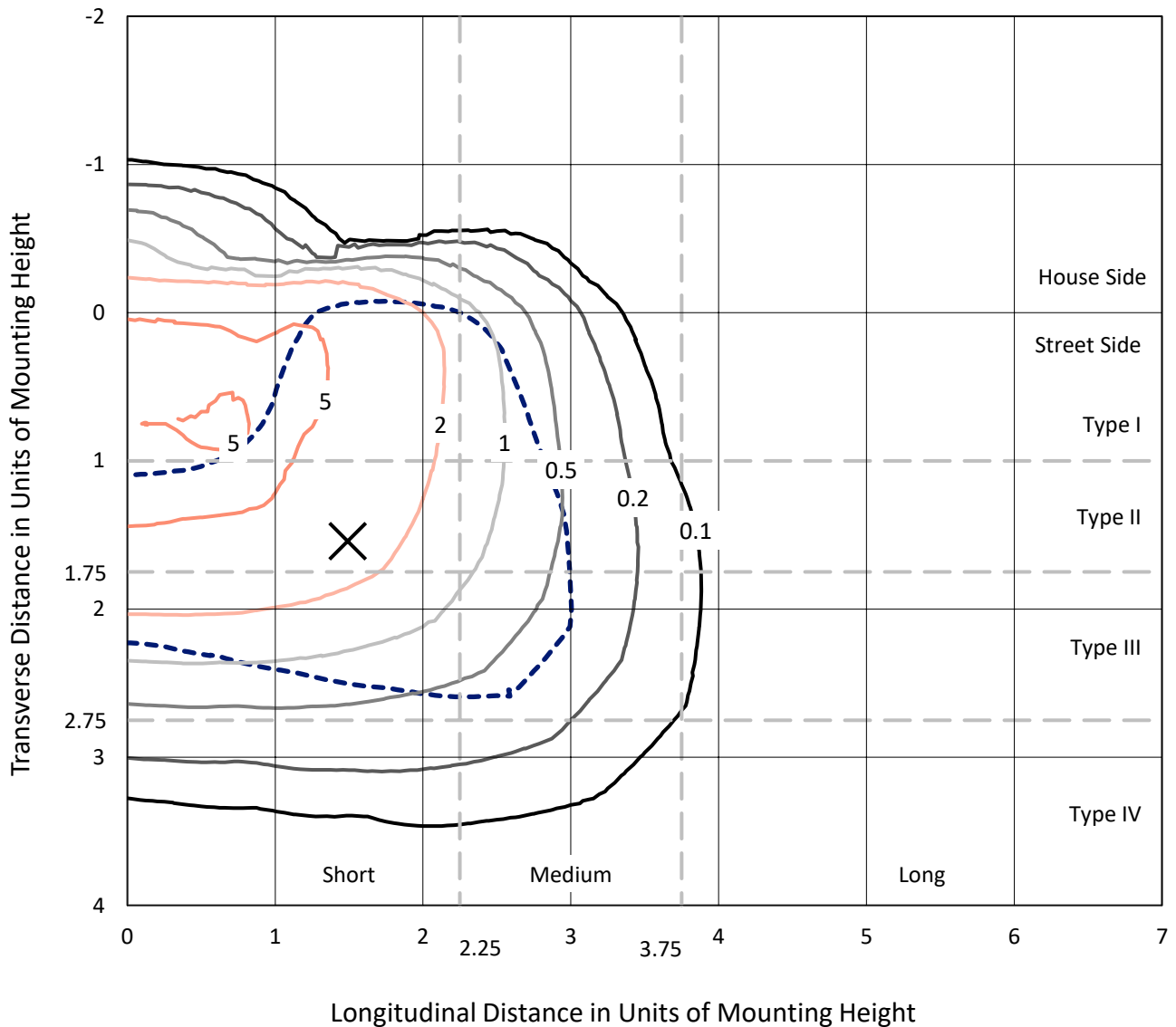
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

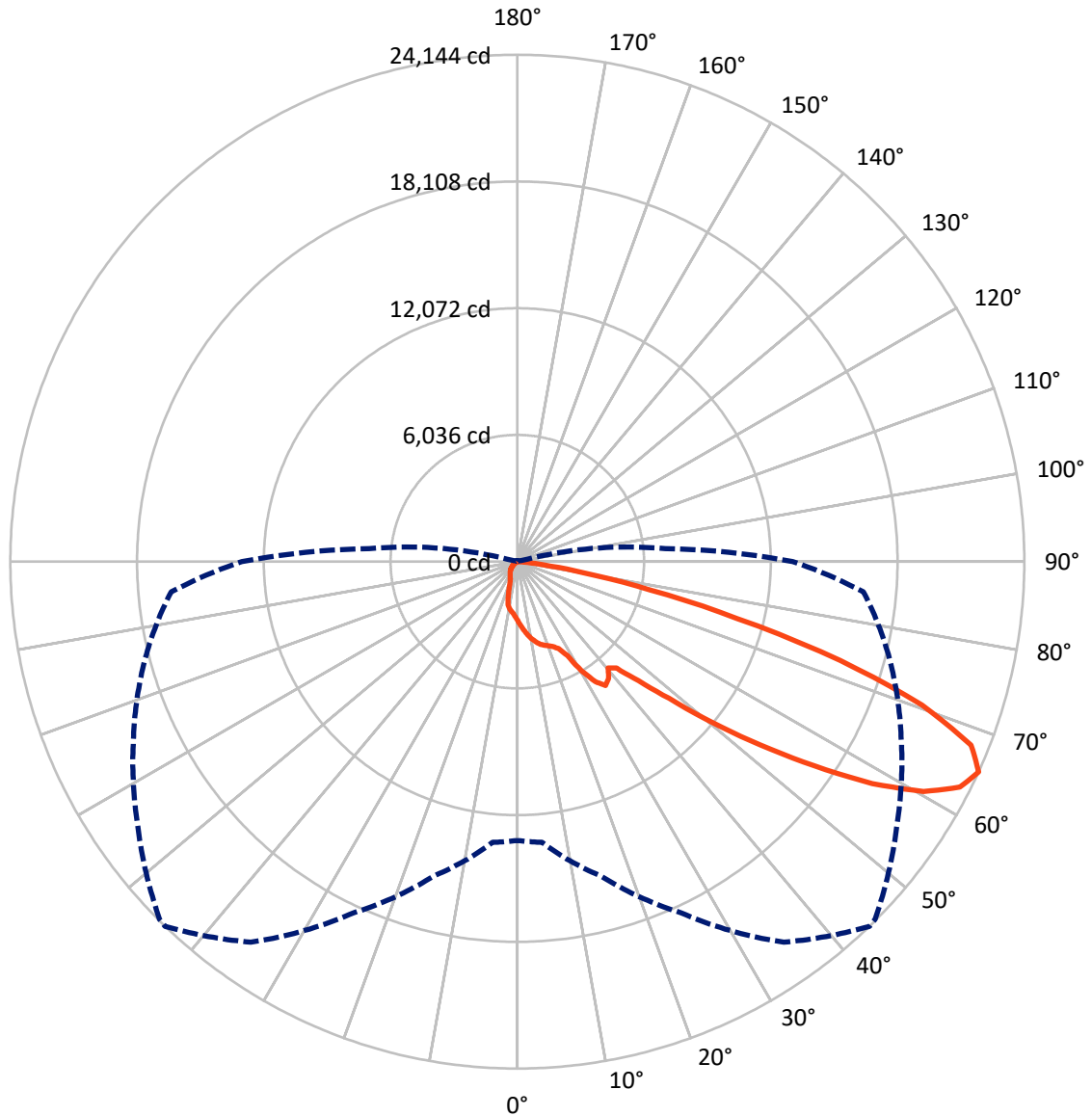
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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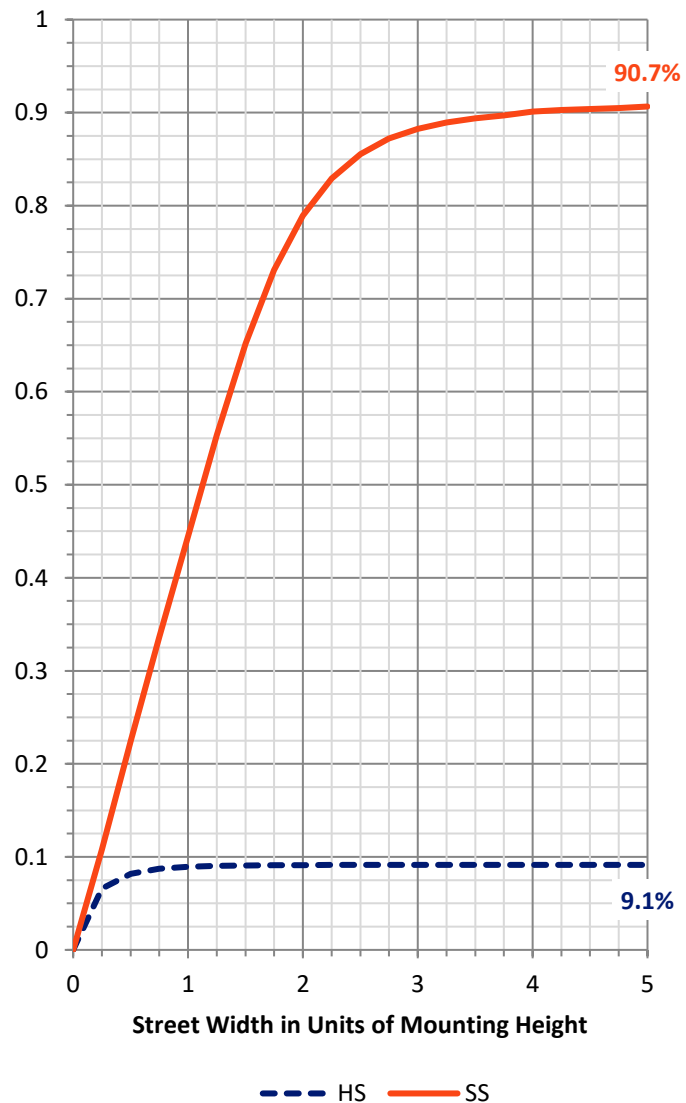
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2778.7	0.0	2778.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	27380.3	0.0	27380.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	30159.0	0.0	30159.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.2	0.9
10°-20°	840.2	2.8
20°-30°	1424.7	4.7
30°-40°	2368.8	7.9
40°-50°	4136.1	13.7
50°-60°	8080.4	26.8
60°-70°	9375.1	31.1
70°-80°	3413.9	11.3
80°-90°	240.5	0.8
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°	30159.0	100.0
0°-180°	30159.0	100.0



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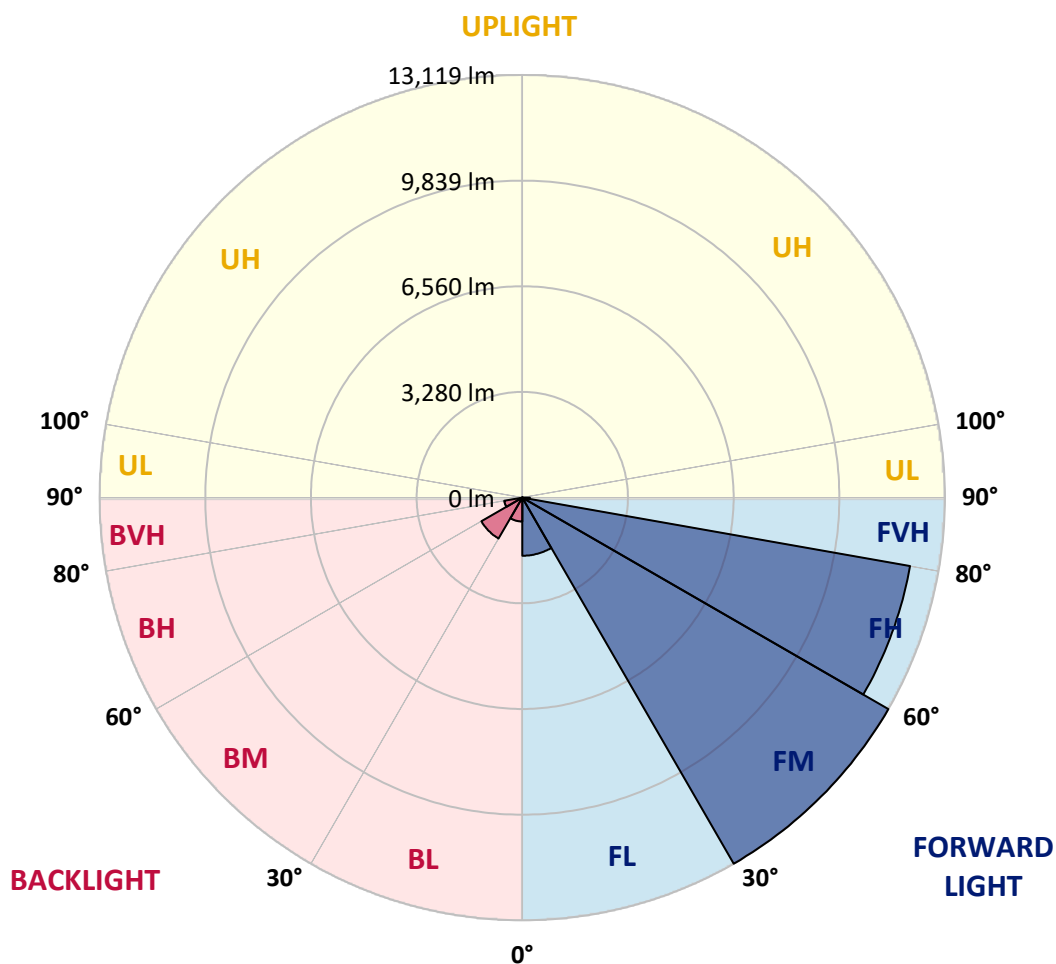
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1803.8	6.0			
FM	(30°-60°)	13119.2	43.5			
FH	(60°-80°)	12220.0	40.5			G5
FVH	(80°-90°)	237.3	0.8			G3/500
BL	(0°-30°)	740.3	2.5	B2/1000		
BM	(30°-60°)	1466.1	4.9	B2/2500		
BH	(60°-80°)	569.0	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9
2.5°	3159.5	3145.7	3138.8	3101.9	3074.2	3039.7	3039.7	2995.9	2945.2	2889.9	2839.2
5°	3512.1	3489.0	3459.1	3426.8	3362.3	3270.1	3270.1	3177.9	3071.9	2977.4	2873.7
7.5°	3850.9	3830.1	3779.4	3717.2	3611.2	3514.4	3507.5	3373.8	3247.1	3104.2	2956.7
10°	4148.1	4132.0	4088.2	3968.4	3857.8	3731.0	3728.7	3578.9	3431.4	3256.3	3074.2
12.5°	4355.5	4357.8	4300.2	4185.0	4042.1	3922.3	3913.1	3765.6	3611.2	3422.2	3198.7
15°	4503.0	4503.0	4443.1	4314.1	4185.0	4079.0	4069.8	3940.7	3781.7	3576.6	3334.6
17.5°	4544.5	4558.3	4493.8	4378.6	4274.9	4182.7	4180.4	4072.1	3945.3	3747.1	3472.9
20°	4528.4	4542.2	4491.5	4401.6	4330.2	4277.2	4270.3	4226.5	4109.0	3922.3	3620.4
22.5°	4493.8	4507.6	4470.8	4417.8	4383.2	4399.3	4387.8	4424.7	4362.5	4136.6	3795.5
25°	4500.7	4514.6	4486.9	4456.9	4486.9	4586.0	4616.0	4775.0	4719.7	4408.5	3984.5
27.5°	4717.3	4745.0	4705.8	4719.7	4825.7	5056.1	5113.7	5388.0	5143.7	4754.2	4279.5
30°	5199.0	5180.6	5106.8	5173.6	5542.4	6030.9	6014.8	5971.0	5588.5	5152.9	4629.8
32.5°	5636.9	5620.7	5616.1	5904.2	6572.5	6809.9	6798.3	6374.3	5987.1	5609.2	4975.5
35°	5814.3	5752.1	5738.3	6436.5	7554.2	7240.8	7169.4	6540.2	6471.1	6107.0	5328.0
37.5°	6348.9	6305.2	6090.8	6524.1	7162.4	7058.7	7003.4	6826.0	6987.3	6547.1	5726.7
40°	7450.5	7328.4	7134.8	6710.8	6607.1	6650.8	6706.1	7192.4	7598.0	7148.6	6259.1
42.5°	8819.4	8791.7	8432.2	7641.8	6865.2	6925.1	6996.5	7957.5	8476.0	8054.3	7127.9
45°	10462.5	10501.7	9983.2	9049.8	8031.2	8081.9	8185.6	9086.7	9665.2	9462.4	8494.5
47.5°	11955.8	11925.9	11750.7	10780.5	9840.3	9727.4	9895.6	10536.3	11310.6	11342.8	10190.6
50°	13458.4	13617.4	13357.0	12976.7	12278.5	12041.1	11978.9	12292.3	13472.2	13317.8	12227.8
52.5°	15617.7	15700.7	15212.1	15115.3	15274.3	14504.6	14442.4	14518.5	15573.9	15043.9	13753.4
55°	16975.1	16926.7	16744.6	17500.5	18129.6	17168.7	17090.3	16783.8	17318.5	16263.0	15221.3
57.5°	17403.7	17472.9	17896.9	19263.5	20752.2	19936.4	19793.5	18922.4	18576.7	17399.1	16571.8
60°	17212.4	17339.2	18254.1	20286.7	22351.5	22229.4	22107.2	20643.9	19480.1	18348.6	17518.9
62.5°	15850.5	16027.9	17491.3	20104.6	22893.1	23655.9	23503.8	21717.8	20081.6	18809.5	17684.9
65°	13283.2	13414.6	15516.3	18452.3	22123.4	24144.4	24089.1	22054.2	20176.1	18387.8	16548.7
67.5°	9469.3	9916.3	11863.7	15550.9	19846.5	23310.2	23404.7	21651.0	19288.8	16564.9	13705.0
70°	5952.6	6256.8	7653.3	11133.1	15910.4	20450.3	20761.4	19805.0	16740.0	12912.2	9174.3
72.5°	2839.2	3065.0	4060.6	7047.2	11229.9	16090.1	16336.7	16258.4	12944.5	8135.0	4733.5
75°	1265.2	1350.4	1938.1	3597.4	7250.0	10815.1	11453.5	11559.5	8088.9	3979.9	1841.3
77.5°	645.3	647.6	908.0	1742.2	3620.4	6452.7	6579.4	6950.4	4385.5	1753.7	640.7
80°	343.4	366.4	481.6	822.7	1878.2	3177.9	3161.8	3475.2	1945.0	859.6	214.3
82.5°	154.4	170.5	271.9	430.9	917.2	1205.3	1299.7	1421.9	834.2	548.5	94.5
85°	46.1	55.3	133.7	216.6	331.9	348.0	389.5	502.4	472.4	389.5	48.4
87.5°	6.9	6.9	55.3	59.9	48.4	62.2	64.5	71.4	152.1	142.9	25.3
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°	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9	2806.9
2.5°	2811.5	2795.4	2737.8	2689.4	2647.9	2622.5	2592.6	2574.1	2564.9	2558.0	2560.3
5°	2823.0	2783.9	2684.8	2606.4	2546.5	2482.0	2438.2	2412.8	2401.3	2382.9	2382.9
7.5°	2887.6	2825.3	2687.1	2567.2	2463.5	2376.0	2293.0	2263.0	2242.3	2237.7	2233.1
10°	2979.7	2901.4	2712.4	2546.5	2399.0	2279.2	2161.6	2057.9	1977.3	1928.9	1922.0
12.5°	3095.0	2982.0	2751.6	2532.7	2343.7	2131.7	1820.6	1610.9	1470.3	1426.5	1433.4
15°	3201.0	3078.8	2790.8	2521.1	2242.3	1767.6	1415.0	1175.3	1103.9	1097.0	1099.3
17.5°	3327.7	3182.5	2836.9	2505.0	1963.4	1350.4	1050.9	986.3	1000.2	1023.2	1020.9
20°	3459.1	3293.2	2892.2	2408.2	1567.1	1016.3	928.7	935.6	956.4	977.1	981.7
22.5°	3599.7	3419.9	2956.7	2175.5	1196.0	884.9	880.3	889.5	910.3	933.3	937.9
25°	3793.2	3578.9	3005.1	1871.3	905.7	818.1	827.3	843.5	861.9	887.2	891.8
27.5°	4042.1	3793.2	3030.4	1474.9	783.5	758.2	760.5	783.5	806.6	829.6	829.6
30°	4364.8	4049.0	2979.7	1115.4	723.6	700.6	691.4	705.2	735.1	758.2	760.5
32.5°	4652.8	4291.0	2846.1	852.7	679.8	647.6	624.5	626.8	638.4	652.2	654.5
35°	4940.9	4526.1	2617.9	716.7	633.7	596.9	562.3	543.9	534.6	527.7	534.6
37.5°	5309.6	4818.7	2313.7	652.2	594.6	548.5	500.1	460.9	428.6	407.9	412.5
40°	5784.3	5224.3	1954.2	610.7	557.7	502.4	437.9	387.2	331.9	313.4	304.2
42.5°	6567.9	5839.6	1576.3	576.1	520.8	454.0	373.3	304.2	253.5	235.1	239.7
45°	7805.4	6616.3	1214.5	539.3	483.9	401.0	313.4	239.7	198.2	189.0	193.6
47.5°	9446.2	7621.0	935.6	497.8	437.9	343.4	246.6	189.0	163.6	161.3	159.0
50°	10990.2	8556.7	781.2	451.7	382.6	285.8	202.8	159.0	142.9	140.6	140.6
52.5°	12386.8	9227.3	636.0	398.7	322.6	235.1	170.5	140.6	126.7	119.8	119.8
55°	13628.9	9665.2	516.2	334.2	253.5	186.7	147.5	126.7	110.6	101.4	99.1
57.5°	14566.9	9718.2	387.2	267.3	189.0	145.2	126.7	110.6	92.2	80.7	76.0
60°	14967.8	9259.6	285.8	202.8	140.6	115.2	101.4	89.9	69.1	57.6	55.3
62.5°	14564.6	8367.7	212.0	154.4	108.3	85.3	71.4	66.8	48.4	34.6	32.3
65°	13119.6	7079.5	168.2	117.5	80.7	62.2	46.1	43.8	30.0	16.1	13.8
67.5°	10510.9	5544.7	133.7	87.6	57.6	41.5	30.0	27.7	16.1	4.6	4.6
70°	6835.2	3544.3	108.3	64.5	36.9	27.7	18.4	13.8	9.2	2.3	0.0
72.5°	3380.7	1656.9	87.6	50.7	25.3	13.8	6.9	4.6	6.9	0.0	0.0
75°	1311.3	590.0	64.5	34.6	13.8	6.9	4.6	0.0	2.3	0.0	0.0
77.5°	435.6	195.9	39.2	18.4	9.2	4.6	0.0	0.0	0.0	0.0	0.0
80°	161.3	76.0	20.7	11.5	4.6	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	64.5	30.0	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.3	18.4	9.2	6.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.0	13.8	9.2	6.9	4.6	2.3	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)