

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: P456392

Luminaire Tested: **GALN-SA7C-827-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456392  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25921 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

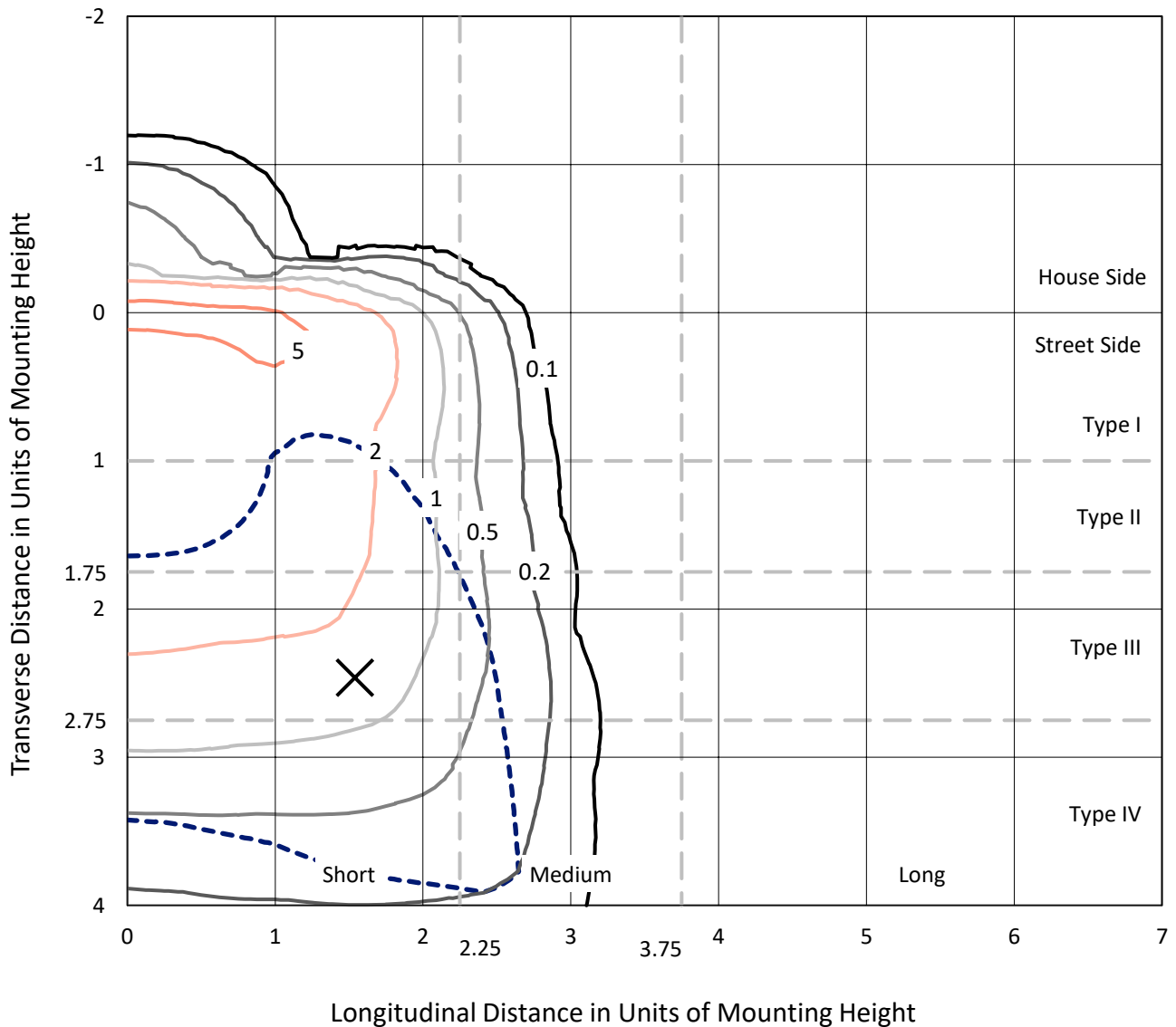
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

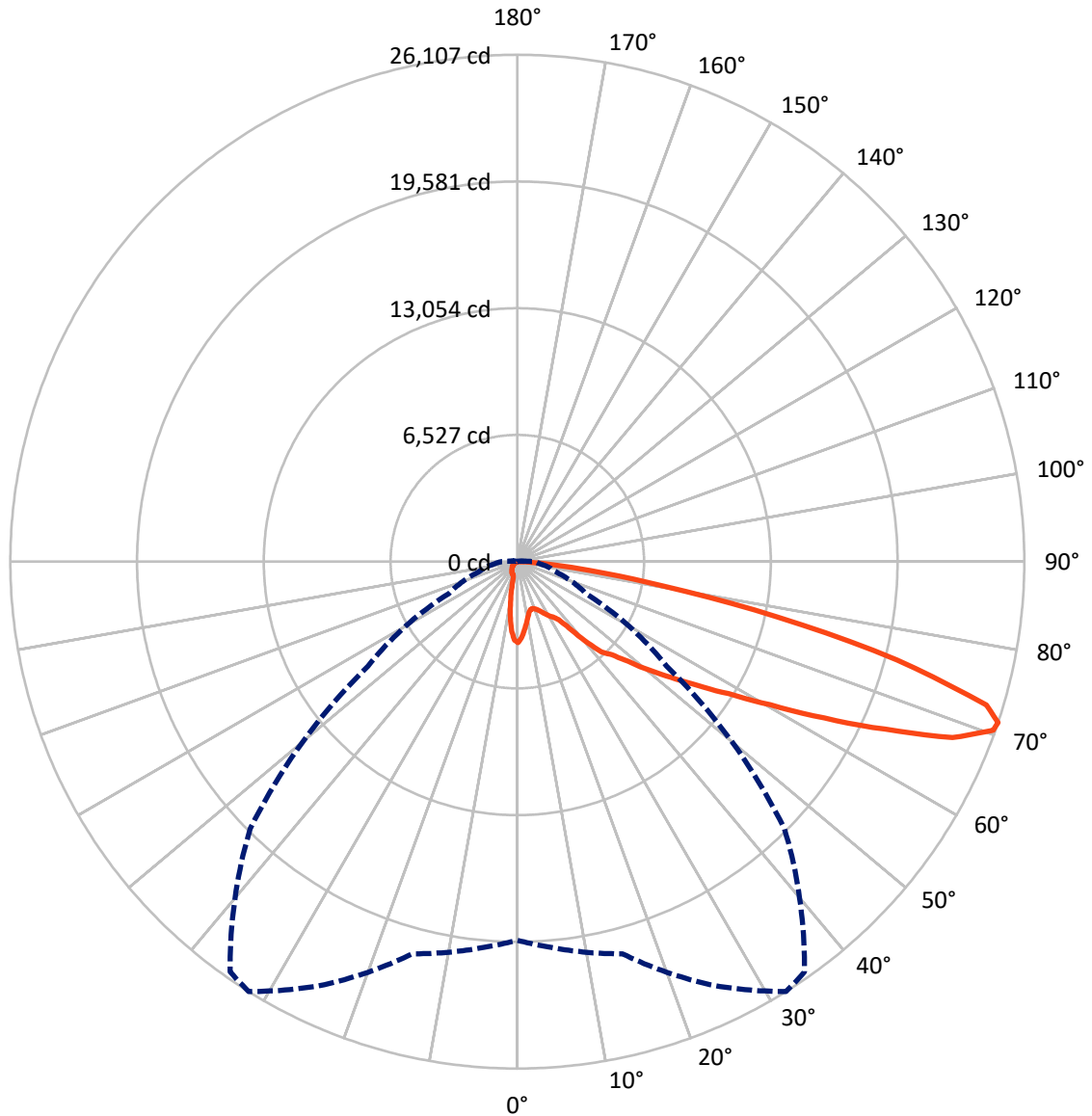
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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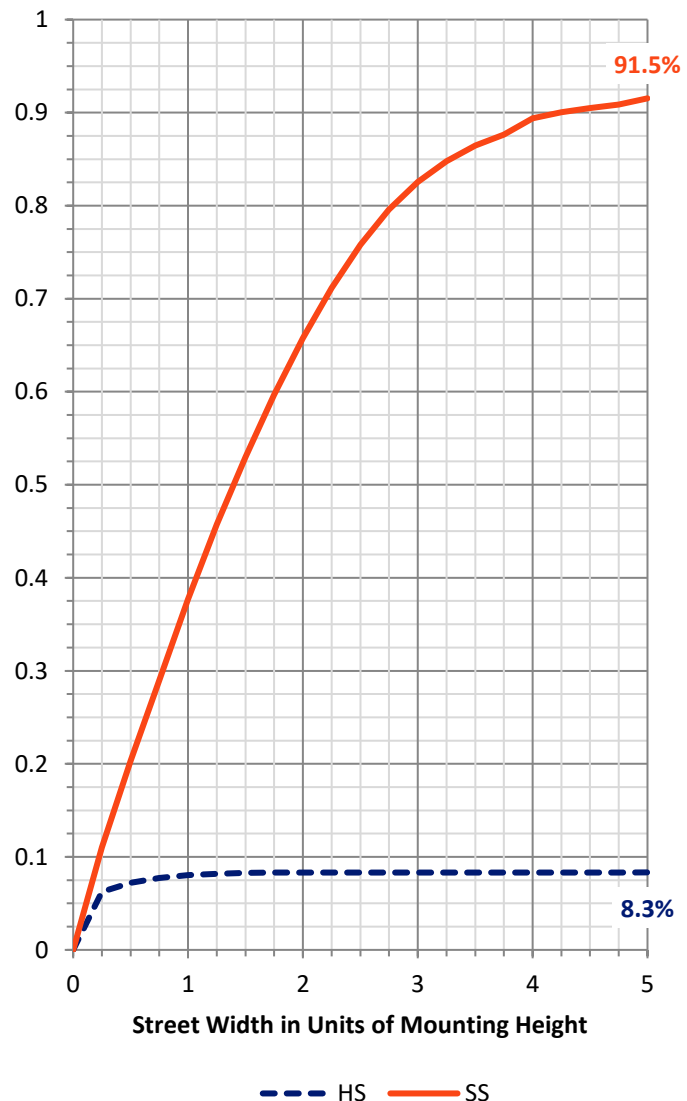
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2171.2	0.0	2171.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	23749.8	0.0	23749.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	25921.0	0.0	25921.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.0	1.3
10°-20°	735.6	2.8
20°-30°	1144.4	4.4
30°-40°	1906.6	7.4
40°-50°	3546.6	13.7
50°-60°	5694.2	22.0
60°-70°	7659.0	29.5
70°-80°	4544.2	17.5
80°-90°	351.3	1.4
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°	25921.0	100.0
0°-180°	25921.0	100.0

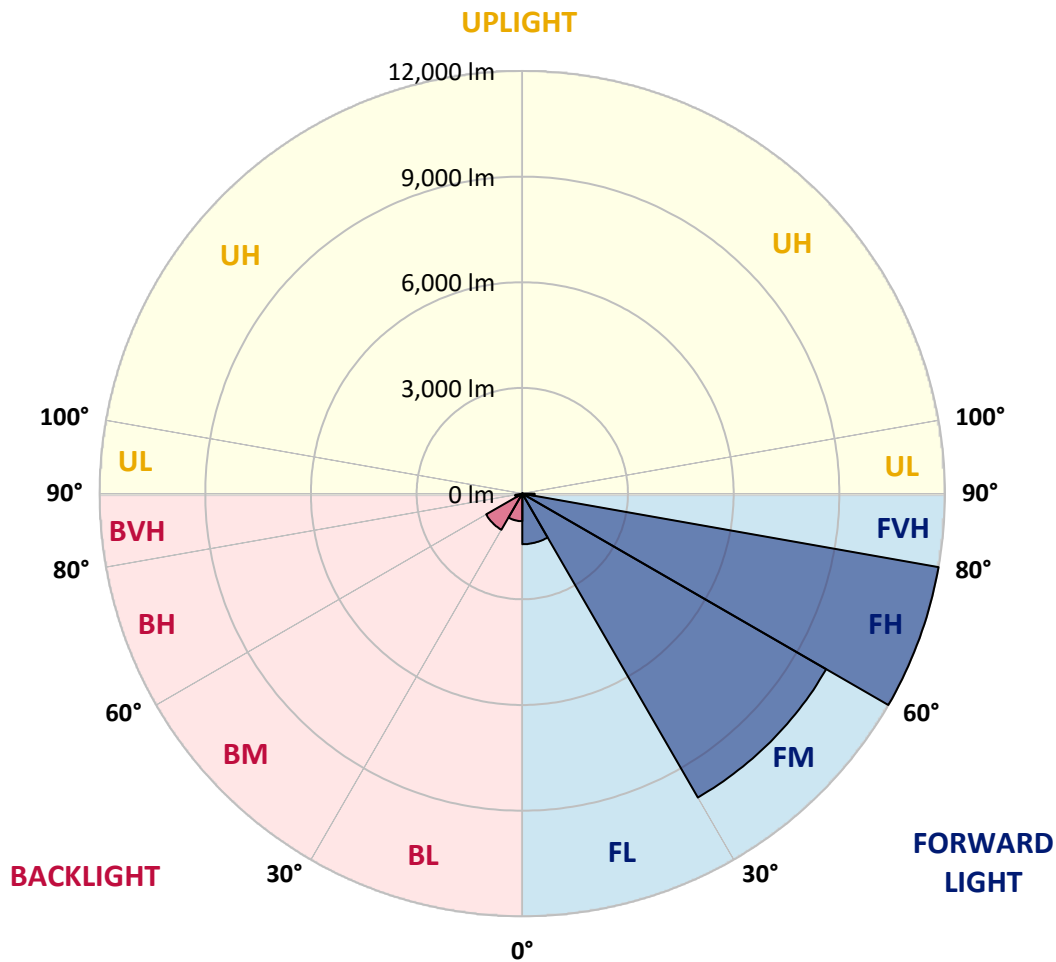


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1436.7	5.5			
FM (30°-60°)	9963.1	38.4			
FH (60°-80°)	12000.2	46.3			G5
FVH (80°-90°)	349.9	1.3			G3/500
BL (0°-30°)	782.3	3.0	B2/1000		
BM (30°-60°)	1184.4	4.6	B2/2500		
BH (60°-80°)	203.1	0.8	B1/500		G1/500
BVH (80°-90°)	1.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5
2.5°	3866.1	3905.9	3899.9	3913.8	3947.6	3961.6	3999.4	4041.2	4098.9	4138.7	4164.5
5°	3462.1	3492.0	3496.0	3565.6	3599.4	3637.2	3748.7	3870.0	4005.3	4112.8	4184.4
7.5°	3030.4	3046.3	3078.1	3169.7	3255.2	3293.0	3462.1	3673.1	3886.0	4086.9	4216.3
10°	2674.2	2692.1	2749.8	2847.3	2926.9	2976.6	3211.4	3476.1	3774.5	4073.0	4262.0
12.5°	2471.3	2481.2	2503.1	2590.6	2692.1	2745.8	2998.5	3301.0	3685.0	4079.0	4339.6
15°	2457.3	2453.3	2427.5	2463.3	2554.8	2610.5	2857.3	3181.6	3605.4	4098.9	4431.1
17.5°	2530.9	2521.0	2459.3	2459.3	2534.9	2580.7	2797.6	3117.9	3565.6	4144.6	4560.5
20°	2644.4	2628.4	2527.0	2519.0	2592.6	2640.4	2833.4	3121.9	3573.6	4230.2	4733.6
22.5°	2787.6	2769.7	2616.5	2620.5	2700.1	2747.8	2936.9	3193.5	3623.3	4335.6	4918.6
25°	2974.7	2954.8	2773.7	2765.7	2849.3	2891.1	3090.1	3320.9	3693.0	4467.0	5161.4
27.5°	3223.4	3181.6	2964.7	2952.8	3042.3	3096.0	3275.1	3492.0	3816.3	4648.0	5487.7
30°	3428.3	3382.6	3175.6	3143.8	3239.3	3281.1	3466.1	3722.8	4059.1	4964.4	5939.4
32.5°	3696.9	3629.3	3386.5	3303.0	3404.4	3458.2	3742.7	4152.6	4419.2	5298.7	6476.6
35°	4301.8	4260.0	3963.6	3671.1	3665.1	3732.7	4150.6	4586.3	4789.3	5820.0	7208.8
37.5°	5167.4	5137.5	4823.1	4431.1	4317.7	4285.9	4646.0	5063.9	5380.3	6536.3	8060.4
40°	6172.2	6102.5	5814.0	5481.7	5334.5	5241.0	5231.0	5774.2	6152.3	7509.3	8947.9
42.5°	6892.5	6765.1	6414.9	6391.0	6359.2	6261.7	5979.2	6812.9	7149.1	8555.9	9897.0
45°	7648.6	7455.5	6934.2	6844.7	6832.8	6826.8	7109.3	8042.5	8235.5	9690.0	10871.9
47.5°	8235.5	8082.3	7654.5	7614.7	7664.5	7799.8	8603.6	9347.8	9308.0	10700.8	11689.7
50°	9017.5	8902.1	8426.5	8502.2	8758.8	8979.7	10288.9	10770.5	10189.4	11496.7	12284.6
52.5°	9940.7	9727.8	9286.1	9491.1	9885.0	10253.1	12077.7	12016.0	10808.3	12095.6	12728.4
55°	10740.6	10589.4	10438.2	10651.1	11240.0	11699.7	13693.4	12949.2	11257.9	12577.1	12923.4
57.5°	12093.6	12057.8	11902.6	12119.5	12833.8	13311.3	15139.9	13673.5	11546.5	12827.8	12694.5
60°	14095.3	14037.6	13749.1	14025.7	14956.9	15707.0	16473.0	14324.1	11612.1	12730.3	12035.9
62.5°	16502.9	16305.9	16059.2	16467.1	17744.5	18074.8	17728.6	14710.1	11367.4	11954.3	10448.1
65°	18751.3	18548.3	18554.3	19413.9	20804.7	21029.5	19193.0	14652.4	10651.1	10010.4	7706.3
67.5°	20472.4	20438.6	20681.3	22358.7	24177.3	24022.1	20502.3	13788.9	8528.0	6488.5	4094.9
70°	20560.0	20625.6	21322.0	24153.4	25999.9	25753.2	20390.8	11208.2	5316.6	2984.6	1613.7
71°	19501.4	19943.1	20906.2	24097.7	26107.4	25787.0	19451.7	9387.6	3899.9	2081.3	1164.0
72.5°	16618.3	16851.1	18932.4	22679.0	25257.7	24573.3	17070.0	6580.1	2497.1	1273.4	668.6
75°	9152.8	9725.8	12678.6	17792.2	20201.8	19600.9	11124.6	3125.9	1245.6	696.4	276.6
77.5°	4357.5	4246.1	6186.1	10581.4	13697.4	13665.5	5605.1	1388.8	726.3	471.6	139.3
80°	1245.6	1400.8	2367.8	5030.1	7604.8	7688.3	2152.9	670.5	503.4	368.1	71.6
82.5°	376.1	384.0	869.5	2224.5	3782.5	3565.6	807.8	342.2	362.1	292.5	41.8
85°	65.7	81.6	256.7	784.0	1442.6	1094.4	203.0	163.2	238.8	193.0	23.9
87.5°	4.0	6.0	85.6	89.5	127.3	73.6	35.8	23.9	51.7	51.7	13.9
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°	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5	4168.5
2.5°	4182.4	4194.4	4186.4	4168.5	4138.7	4102.8	4055.1	4015.3	3981.5	3963.6	3985.4
5°	4208.3	4224.2	4184.4	4094.9	3959.6	3812.3	3645.2	3515.9	3414.4	3382.6	3370.6
7.5°	4248.1	4258.0	4150.6	3951.6	3665.1	3316.9	3012.5	2755.8	2556.8	2497.1	2409.6
10°	4299.8	4293.9	4090.9	3720.8	3217.4	2694.1	2222.5	1872.3	1607.7	1512.2	1504.2
12.5°	4379.4	4347.6	4015.3	3406.4	2684.2	1999.7	1416.7	1108.3	941.1	885.4	873.5
15°	4478.9	4403.3	3895.9	3038.3	2055.4	1291.3	873.5	780.0	758.1	754.1	750.1
17.5°	4596.3	4476.9	3738.7	2586.7	1444.5	837.7	730.2	728.2	730.2	726.3	724.3
20°	4755.5	4554.5	3551.7	2051.4	955.1	706.4	696.4	696.4	698.4	696.4	696.4
22.5°	4924.6	4646.0	3320.9	1565.9	720.3	670.5	668.6	672.5	676.5	674.5	674.5
25°	5133.5	4765.4	3016.4	1072.5	644.7	640.7	642.7	650.6	658.6	660.6	658.6
27.5°	5436.0	4912.7	2690.1	738.2	591.0	594.9	614.8	634.7	646.7	648.7	648.7
30°	5776.2	5075.8	2264.3	598.9	547.2	547.2	571.1	608.9	634.7	638.7	640.7
32.5°	6214.0	5264.8	1792.8	539.2	505.4	501.4	523.3	569.1	616.8	630.7	630.7
35°	6755.2	5487.7	1333.1	501.4	475.5	465.6	477.5	515.3	577.0	616.8	620.8
37.5°	7389.9	5698.6	975.0	467.6	447.7	433.8	441.7	471.6	521.3	581.0	596.9
40°	7976.9	5885.6	728.2	439.7	419.8	409.9	415.9	429.8	471.6	527.3	537.2
42.5°	8617.6	6030.9	579.0	409.9	392.0	388.0	388.0	394.0	421.8	453.7	455.7
45°	9256.3	6082.6	485.5	374.1	362.1	366.1	364.1	360.1	372.1	368.1	368.1
47.5°	9711.9	6020.9	401.9	340.2	340.2	346.2	336.3	322.3	316.4	292.5	294.5
50°	10024.3	5796.1	330.3	300.5	316.4	324.3	304.4	282.5	260.7	234.8	228.8
52.5°	10153.6	5396.2	270.6	248.7	280.6	290.5	266.6	240.8	206.9	185.0	179.1
55°	10070.1	4902.7	224.8	203.0	236.8	248.7	224.8	195.0	157.2	133.3	129.3
57.5°	9702.0	4313.8	191.0	161.2	189.0	197.0	181.1	149.2	111.4	87.5	87.5
60°	9065.2	3704.9	155.2	127.3	141.3	153.2	137.3	107.4	75.6	53.7	49.7
62.5°	7773.9	3008.5	125.4	99.5	99.5	109.4	95.5	77.6	47.8	27.9	25.9
65°	5613.1	2063.4	99.5	73.6	71.6	71.6	59.7	51.7	27.9	11.9	8.0
67.5°	3050.3	1164.0	79.6	55.7	49.7	47.8	37.8	29.8	11.9	2.0	0.0
70°	1199.8	447.7	61.7	37.8	31.8	29.8	19.9	13.9	8.0	0.0	0.0
71°	813.8	308.4	53.7	31.8	25.9	21.9	15.9	11.9	6.0	0.0	0.0
72.5°	465.6	191.0	41.8	23.9	19.9	15.9	11.9	8.0	6.0	0.0	0.0
75°	203.0	97.5	25.9	17.9	13.9	9.9	8.0	6.0	2.0	0.0	0.0
77.5°	103.5	53.7	17.9	13.9	8.0	6.0	4.0	2.0	0.0	0.0	0.0
80°	57.7	27.9	11.9	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
82.5°	31.8	15.9	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	4.0	0.0	0.0	0.0	0.0	2.0	2.0	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)