

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: P651891

Luminaire Tested: **GALN-SA5A-840-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-840-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA 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: 15762.9 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

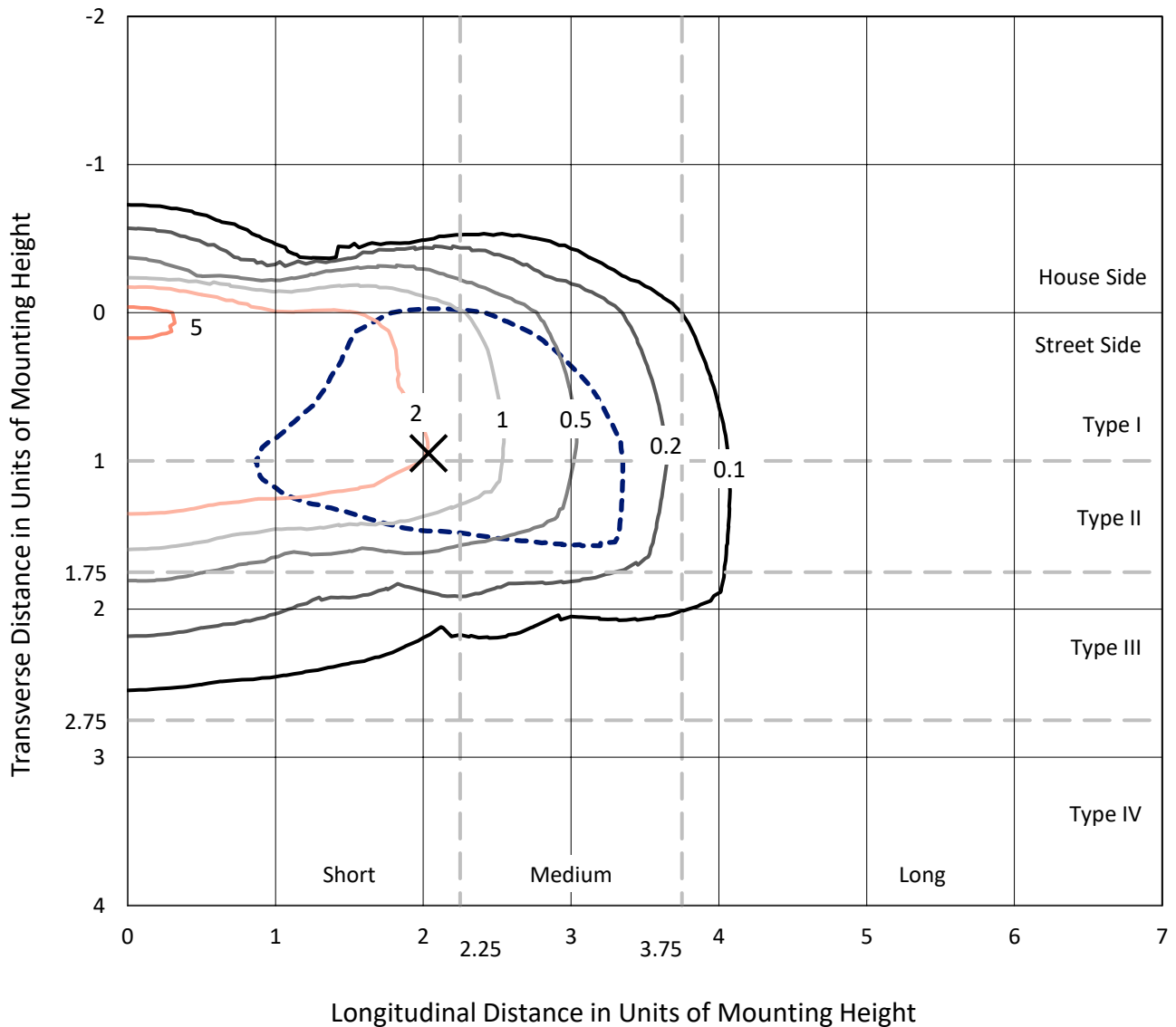
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

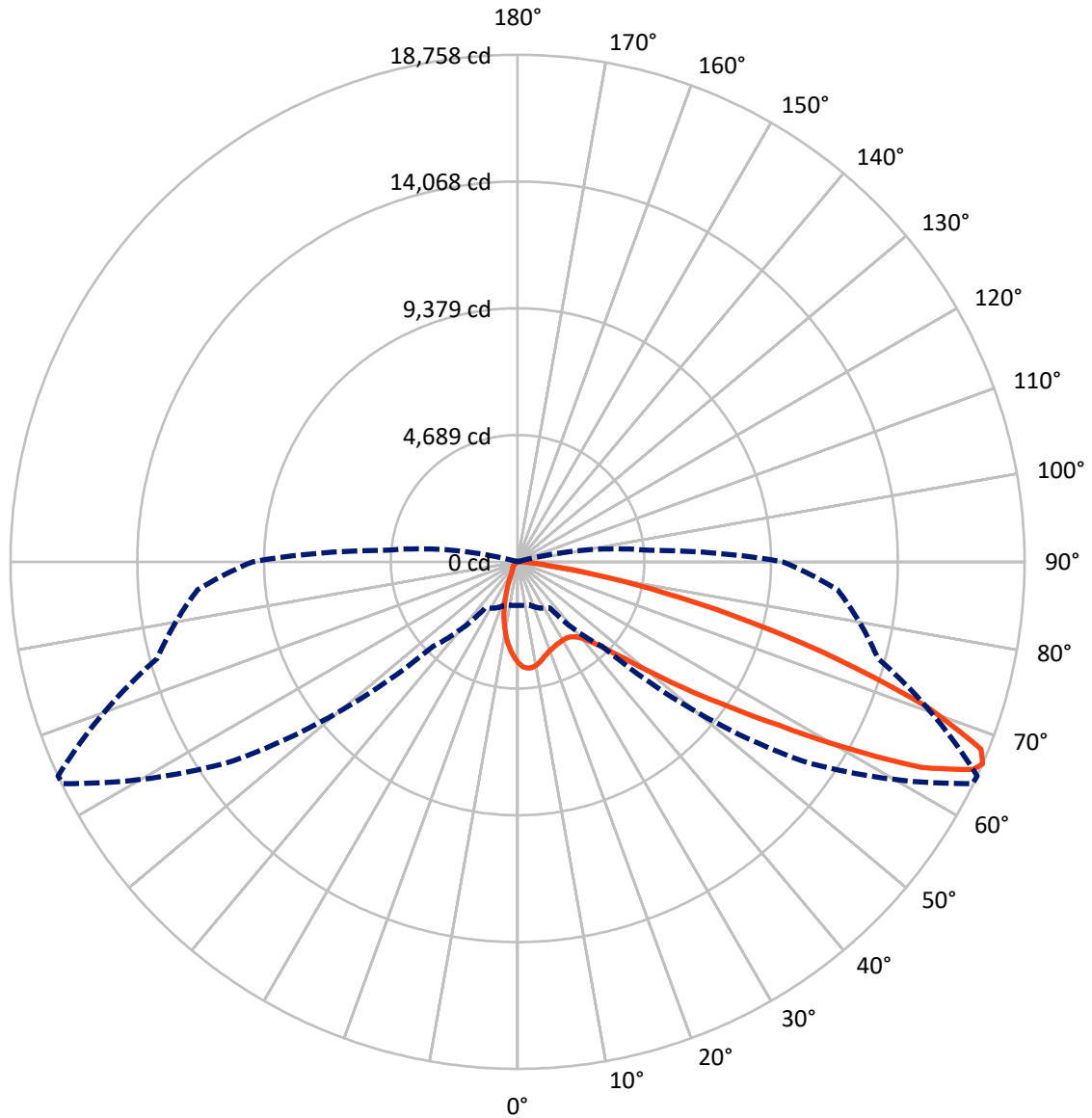
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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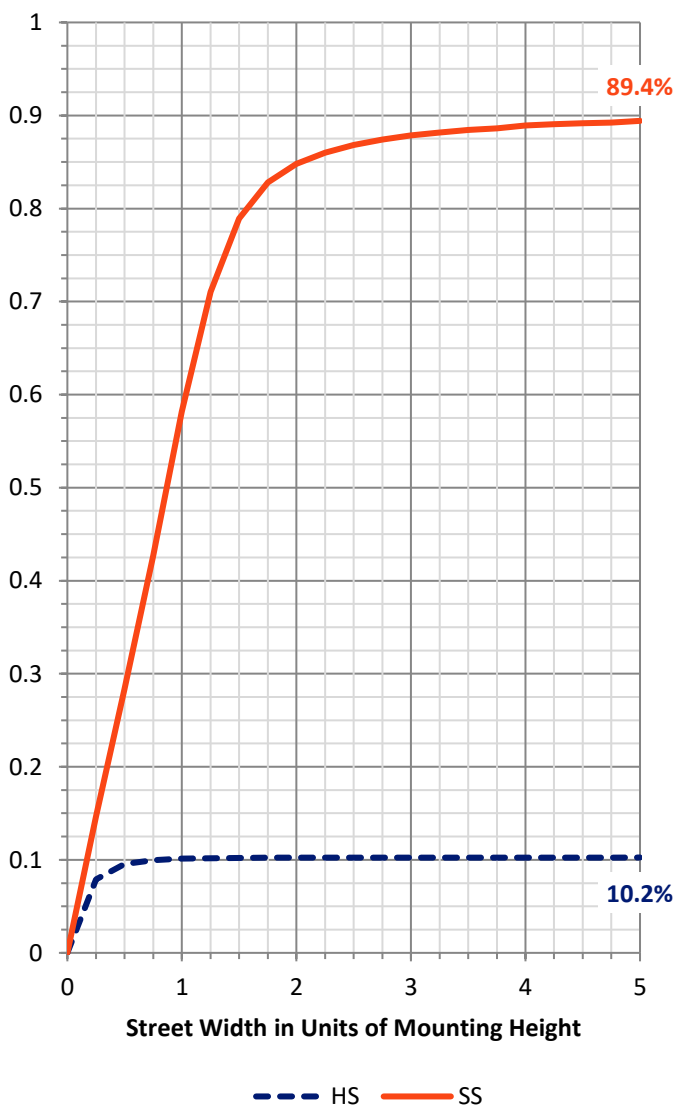
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1630.1	0.0	1630.1
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	14132.8	0.0	14132.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	15762.9	0.0	15762.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.7	1.9
10°-20°	666.1	4.2
20°-30°	954.2	6.1
30°-40°	1393.7	8.8
40°-50°	2336.9	14.8
50°-60°	3900.0	24.7
60°-70°	4139.7	26.3
70°-80°	1874.9	11.9
80°-90°	191.8	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°	15762.9	100.0
0°-180°	15762.9	100.0

**Coefficient of Utilization**



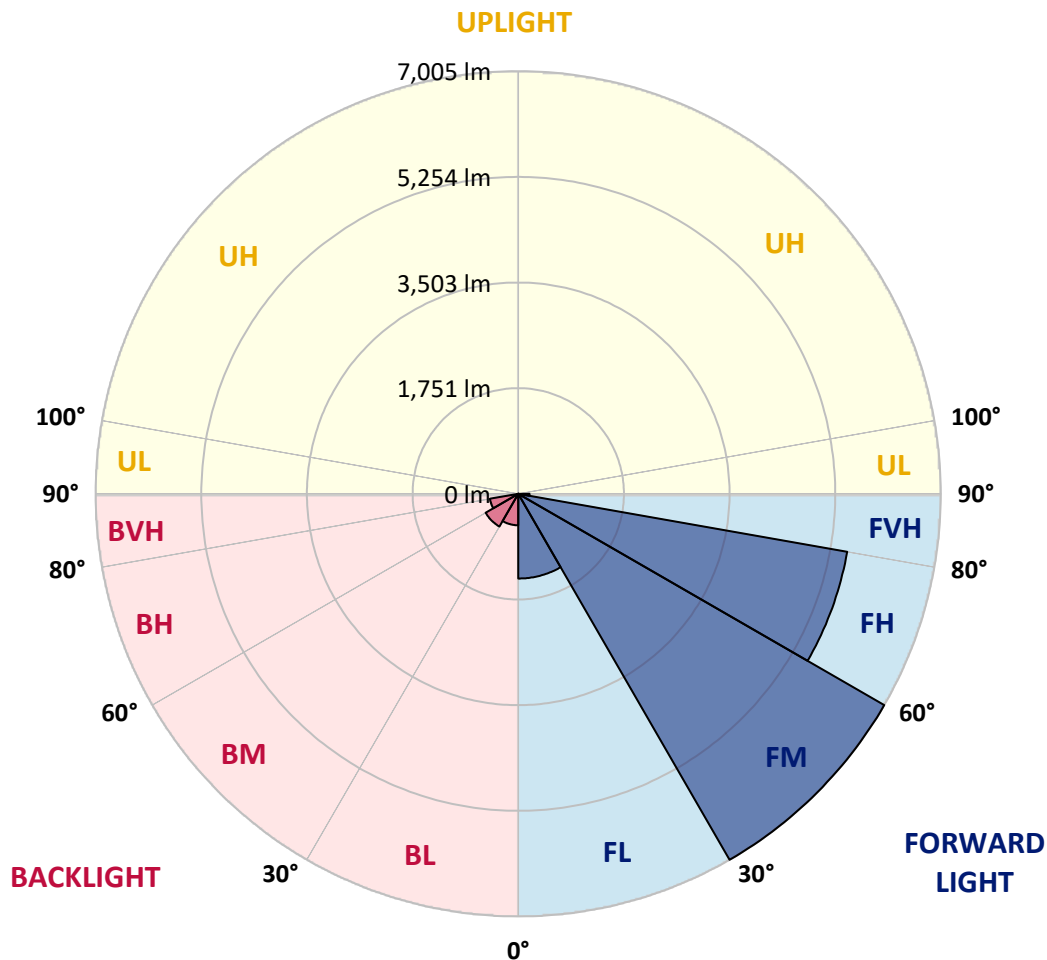
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1404.5	8.9			
FM (30°-60°)	7005.4	44.4			
FH (60°-80°)	5537.1	35.1			G3/7500
FVH (80°-90°)	185.7	1.2			G2/225
BL (0°-30°)	521.5	3.3	B2/1000		
BM (30°-60°)	625.2	4.0	B1/1000		
BH (60°-80°)	477.4	3.0	B1/500		G1/500
BVH (80°-90°)	6.1	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0
2.5°	3939.2	3943.4	3948.7	3956.2	3961.5	3945.6	3923.2	3897.6	3892.3	3838.1	3772.1
5°	3728.4	3734.8	3781.6	3807.1	3864.6	3916.8	3949.8	3954.0	3951.9	3900.8	3795.4
7.5°	3428.2	3446.2	3492.0	3536.7	3644.3	3743.3	3860.4	3942.4	3947.7	3933.9	3802.9
10°	3184.4	3196.1	3219.5	3307.8	3397.3	3548.4	3712.4	3866.7	3879.5	3935.0	3796.5
12.5°	2993.8	3010.8	3039.5	3107.7	3215.2	3357.9	3544.2	3751.8	3778.4	3914.7	3778.4
15°	2860.7	2869.2	2897.9	2965.0	3069.4	3201.4	3389.8	3631.5	3654.9	3888.1	3775.2
17.5°	2797.8	2807.4	2827.7	2880.9	2967.1	3089.6	3273.8	3534.6	3564.4	3871.0	3786.9
20°	2814.9	2823.4	2824.5	2852.2	2910.7	3014.0	3188.6	3444.1	3482.4	3860.4	3806.1
22.5°	2911.8	2912.9	2900.1	2887.3	2907.5	2982.1	3136.4	3386.6	3426.0	3858.3	3828.5
25°	3056.6	3059.8	3038.4	2993.8	2953.3	2991.6	3124.7	3349.4	3384.5	3853.0	3842.3
27.5°	3256.8	3255.7	3249.3	3174.8	3059.8	3034.2	3134.3	3329.1	3359.0	3838.1	3847.6
30°	3536.7	3528.2	3514.4	3430.3	3254.6	3137.5	3174.8	3316.4	3344.1	3816.7	3833.8
32.5°	3812.5	3844.4	3842.3	3762.5	3543.1	3321.7	3258.9	3333.4	3353.7	3802.9	3813.5
35°	4134.0	4132.9	4214.9	4185.1	3928.6	3556.9	3402.6	3389.8	3405.8	3812.5	3803.9
37.5°	4432.1	4459.8	4587.6	4618.4	4384.2	3889.1	3606.0	3511.2	3516.5	3877.4	3827.4
40°	4803.6	4856.9	5047.4	5150.7	4944.2	4382.0	3906.2	3733.7	3734.8	4037.1	3915.8
42.5°	5282.7	5366.8	5544.6	5717.1	5606.4	4965.5	4356.5	4086.1	4084.0	4318.2	4118.0
45°	5865.1	5923.7	6125.9	6399.6	6329.3	5779.9	5012.4	4632.2	4604.6	4779.2	4476.8
47.5°	6367.6	6447.4	6653.0	6964.9	7284.2	6774.3	5795.9	5382.8	5364.7	5512.8	5092.2
50°	6587.0	6657.2	6873.3	7310.9	8084.9	8079.6	6962.7	6478.3	6447.4	6527.3	6043.9
52.5°	6346.4	6412.4	6630.6	7175.7	8461.8	9670.2	8653.4	7852.8	7815.5	7713.3	7181.0
55°	5522.3	5576.6	5899.2	6525.2	8317.0	10730.5	10982.9	9550.9	9406.1	9009.0	8468.2
57.5°	4397.0	4369.2	4569.4	5296.6	7467.4	11086.1	13374.0	11666.4	11407.7	10129.0	9557.3
60°	3047.0	3132.1	3213.1	3692.2	5614.9	10469.7	14861.3	14325.8	13985.2	11230.9	10600.6
62.5°	2240.0	2296.4	2349.7	2571.1	3530.3	8359.5	15124.3	17057.7	16755.3	12401.0	11596.0
65°	1771.6	1775.9	1797.1	2015.4	2326.2	5436.1	13860.6	18598.2	18520.5	13527.3	11999.6
66°	1614.0	1615.1	1648.0	1882.3	2087.8	4426.8	12848.1	18715.4	18757.9	13797.8	11881.4
67.5°	1410.6	1406.4	1454.3	1691.8	1901.4	3191.8	11036.1	18240.5	18492.8	14005.3	11456.6
70°	1093.4	1088.1	1146.6	1419.2	1751.3	2129.2	7335.4	15661.9	16068.7	13580.6	10136.5
72.5°	728.2	732.5	832.6	1120.0	1671.5	1874.8	4413.0	11914.4	12489.3	11214.9	7974.2
75°	424.8	432.3	546.1	832.6	1451.1	1787.5	2497.7	8495.9	8863.1	7744.2	4967.6
77.5°	222.5	225.7	305.5	549.3	1112.6	1659.8	1664.0	5427.6	5600.1	3763.5	1966.4
80°	118.2	115.0	164.0	331.1	765.5	1457.5	1350.0	2873.4	2987.4	1117.9	497.2
82.5°	44.7	48.9	87.3	217.1	452.5	1046.5	1162.6	1270.1	1230.7	245.9	208.7
85°	8.5	10.7	37.3	128.8	227.8	437.6	857.1	622.8	577.0	92.6	120.3
87.5°	1.1	2.1	10.7	30.9	33.0	148.0	253.4	172.5	149.0	34.1	50.0
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°	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0	3738.0
2.5°	3740.1	3711.3	3615.5	3520.8	3423.9	3336.6	3277.0	3180.1	3155.6	3120.4	3100.3
5°	3732.6	3665.6	3481.4	3280.2	3092.8	2890.5	2736.1	2587.1	2507.2	2466.7	2451.9
7.5°	3711.3	3604.9	3317.4	3002.3	2702.0	2399.7	2136.7	1936.6	1807.7	1719.4	1659.8
10°	3668.8	3521.9	3126.8	2693.6	2240.0	1840.8	1507.5	1254.2	1058.2	996.5	998.6
12.5°	3625.1	3429.2	2913.9	2350.8	1788.6	1285.0	931.6	731.4	637.7	606.9	600.5
15°	3584.7	3340.9	2705.2	2018.6	1331.9	832.6	600.5	530.2	504.6	499.3	498.3
17.5°	3563.3	3258.9	2482.7	1638.5	929.5	565.3	481.2	462.0	454.6	449.3	447.2
20°	3545.2	3187.6	2269.8	1282.9	635.6	463.1	431.2	413.1	400.3	395.0	391.8
22.5°	3532.5	3114.1	2049.4	993.3	486.5	410.9	382.2	358.8	340.7	334.3	330.0
25°	3513.3	3033.2	1826.9	726.1	409.9	365.2	332.2	304.5	281.1	269.4	267.2
27.5°	3485.6	2941.6	1583.1	537.7	366.3	324.7	284.3	250.2	226.7	214.0	215.0
30°	3441.0	2845.8	1339.3	426.9	331.1	283.2	239.5	206.5	184.2	174.6	173.5
32.5°	3387.7	2729.7	1115.8	366.3	299.1	245.9	200.2	171.4	154.4	146.9	145.8
35°	3337.7	2612.7	887.9	329.0	266.2	211.8	168.2	143.7	130.9	124.6	125.6
37.5°	3310.0	2508.3	692.1	299.1	239.5	182.1	144.8	123.5	111.8	106.5	105.4
40°	3328.1	2423.1	550.4	272.6	209.7	156.5	124.6	106.5	94.8	87.3	87.3
42.5°	3413.2	2385.8	444.0	247.0	182.1	135.2	108.6	91.6	78.8	71.3	72.4
45°	3673.0	2425.3	371.6	223.5	156.5	117.2	93.7	75.6	63.9	58.5	57.5
47.5°	4104.2	2573.2	321.5	199.1	134.1	100.1	78.8	62.8	51.1	46.8	45.8
50°	4858.0	2878.8	284.3	174.6	114.0	85.2	64.9	50.0	40.5	36.2	36.2
52.5°	5894.9	3545.2	257.7	146.9	95.8	72.4	53.2	40.5	32.0	28.8	27.7
55°	6978.7	4247.9	243.8	123.5	79.8	59.6	42.6	32.0	24.5	21.3	20.3
57.5°	8021.0	4799.4	227.8	100.1	63.9	45.8	33.0	24.5	17.1	14.9	13.9
60°	9020.7	5245.5	193.8	79.8	50.0	33.0	24.5	17.1	11.7	9.6	9.6
62.5°	9915.0	5505.3	152.2	63.9	38.3	23.5	16.0	12.8	8.5	6.4	6.4
65°	10019.3	5167.8	115.0	48.9	27.7	14.9	9.6	9.6	6.4	4.3	4.3
66°	9809.6	4881.4	101.2	44.7	24.5	12.8	8.5	7.5	5.3	3.2	3.2
67.5°	9341.2	4392.7	87.3	38.3	20.3	9.6	6.4	6.4	4.3	2.1	2.1
70°	8071.1	3587.9	69.2	28.8	14.9	7.5	4.3	4.3	3.2	2.1	2.1
72.5°	6151.5	2678.7	56.4	21.3	10.7	5.3	3.2	3.2	3.2	2.1	2.1
75°	3710.2	1442.6	43.6	16.0	9.6	4.3	2.1	3.2	4.3	3.2	2.1
77.5°	1367.0	490.8	34.1	12.8	7.5	4.3	2.1	2.1	4.3	3.2	3.2
80°	335.4	127.7	24.5	10.7	7.5	4.3	2.1	2.1	4.3	4.3	4.3
82.5°	155.4	54.3	17.1	9.6	7.5	4.3	2.1	2.1	3.2	4.3	4.3
85°	89.4	25.6	13.9	10.7	7.5	4.3	2.1	2.1	3.2	4.3	4.3
87.5°	36.2	12.8	12.8	10.7	8.5	5.3	2.1	2.1	2.1	3.2	3.2
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)