

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: P652529

Luminaire Tested: **GALN-SA7B-840-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652529  
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-SA7B-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 800mA 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: 24001.3 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

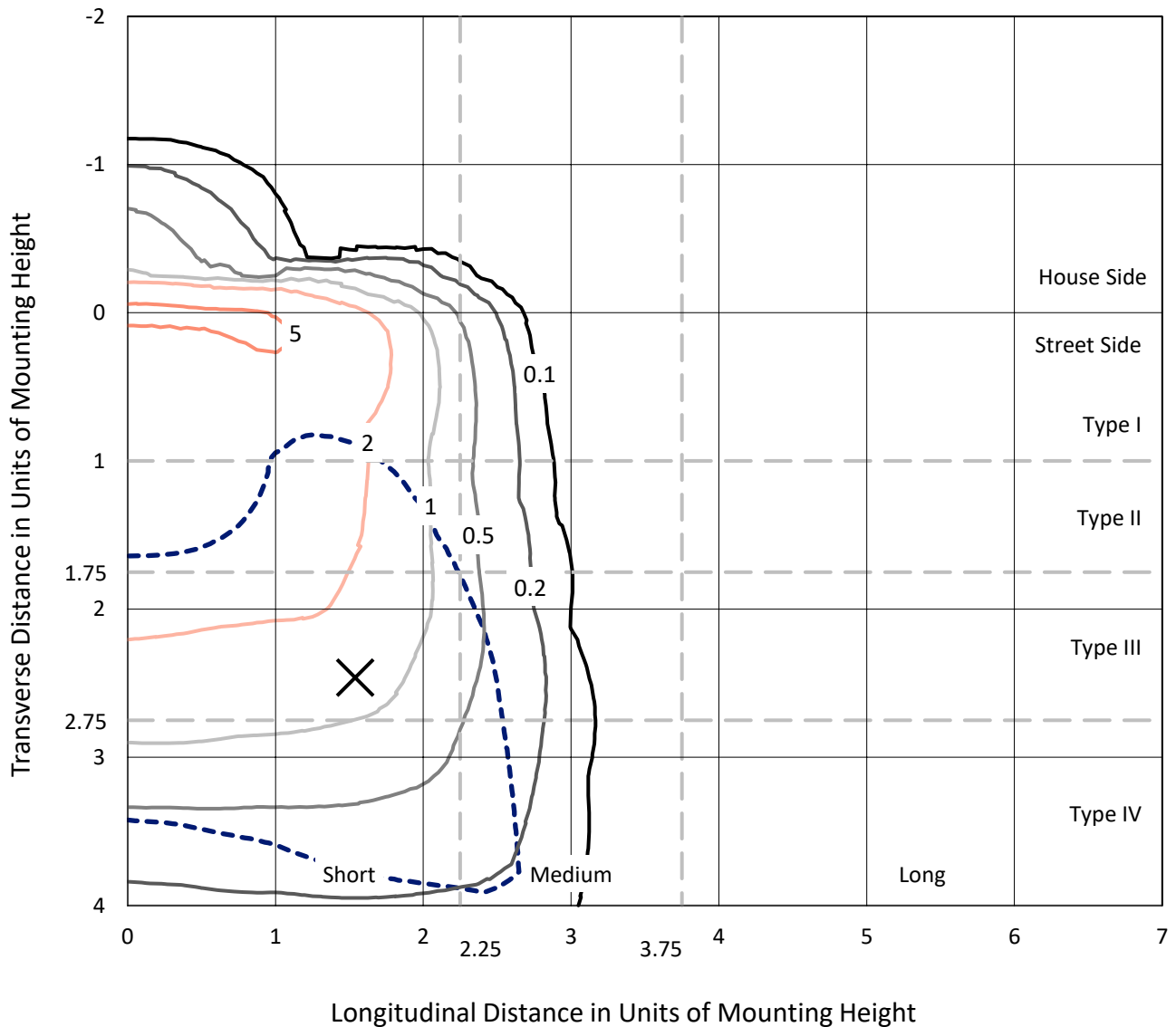
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

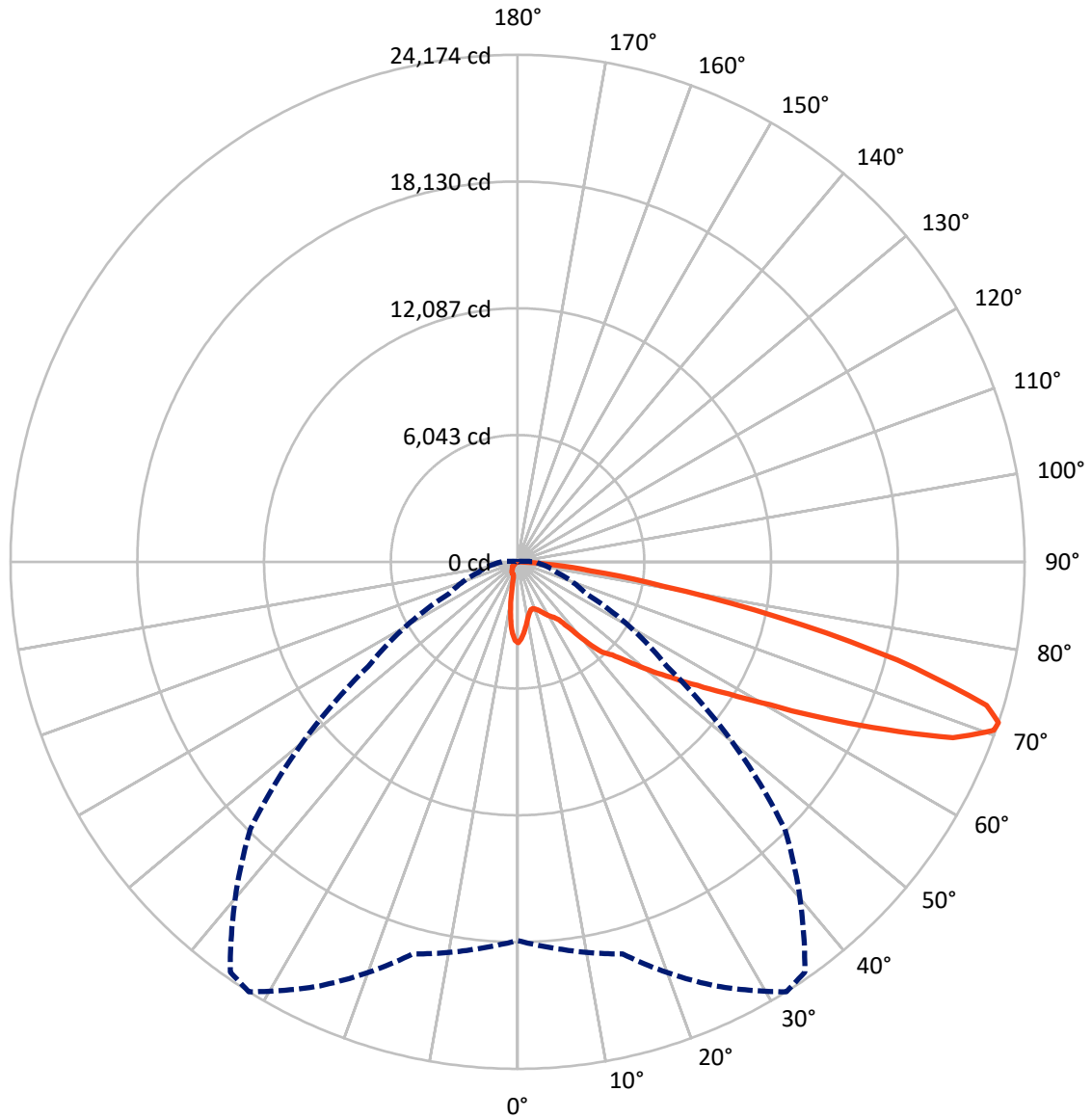
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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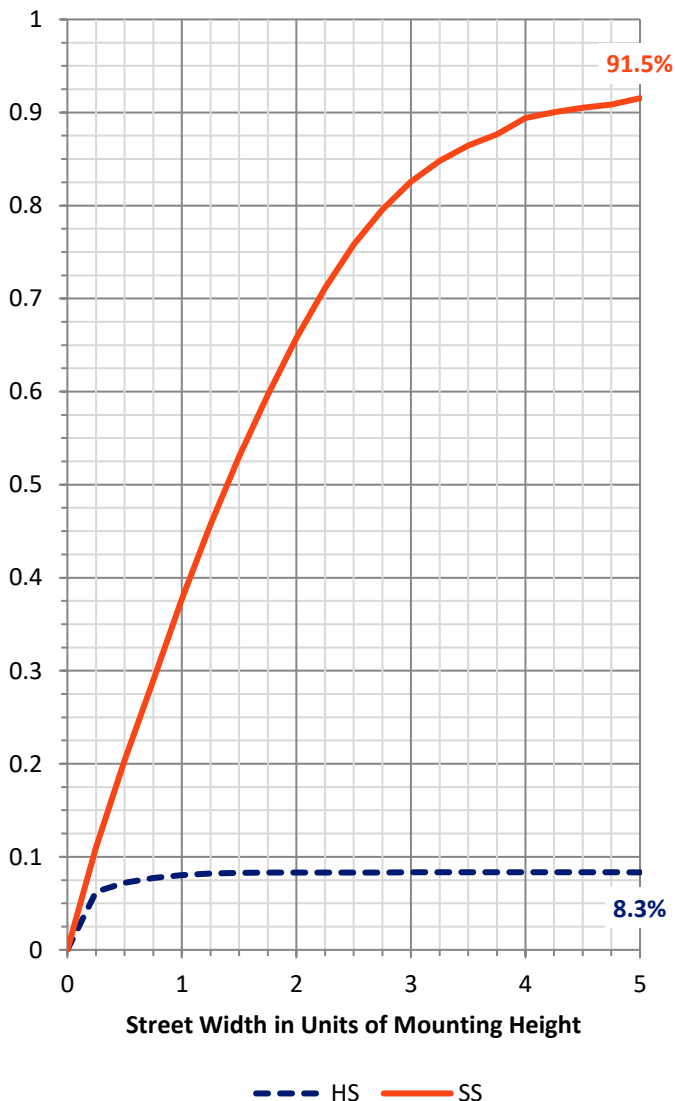
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2010.4	0.0	2010.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	21990.9	0.0	21990.9
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	24001.3	0.0	24001.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.9	1.3
10°-20°	681.2	2.8
20°-30°	1059.7	4.4
30°-40°	1765.4	7.4
40°-50°	3284.0	13.7
50°-60°	5272.5	22.0
60°-70°	7091.8	29.5
70°-80°	4207.7	17.5
80°-90°	325.2	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°	24001.3	100.0
0°-180°	24001.3	100.0

**Coefficient of Utilization**

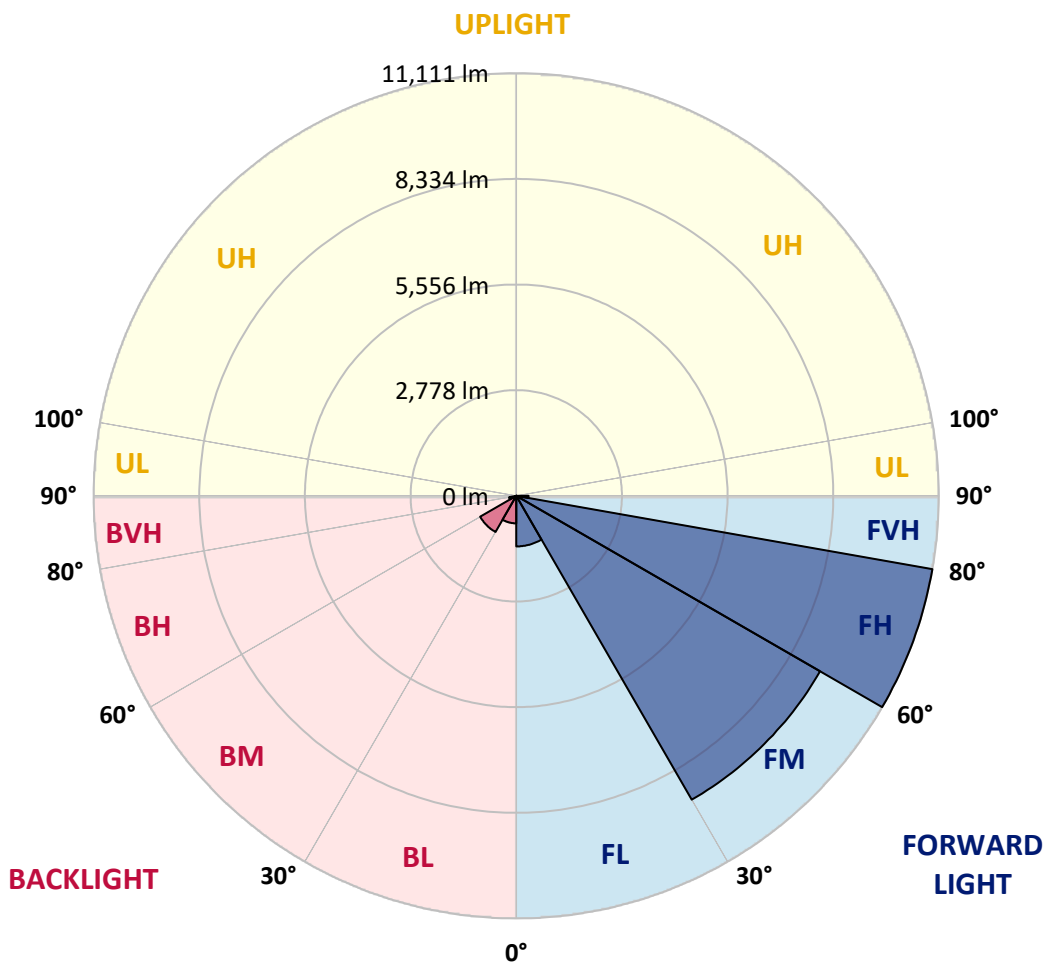


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1330.3	5.5			
FM	(30°-60°)	9225.2	38.4			
FH	(60°-80°)	11111.4	46.3			G4/12000
FVH	(80°-90°)	324.0	1.3			G3/500
BL	(0°-30°)	724.4	3.0	B2/1000		
BM	(30°-60°)	1096.7	4.6	B2/2500		
BH	(60°-80°)	188.0	0.8	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: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8
2.5°	3579.7	3616.6	3611.1	3624.0	3655.2	3668.2	3703.2	3741.9	3795.3	3832.2	3856.1
5°	3205.7	3233.4	3237.1	3301.5	3332.9	3367.9	3471.1	3583.4	3708.7	3808.2	3874.5
7.5°	2805.9	2820.7	2850.1	2934.9	3014.1	3049.1	3205.7	3401.0	3598.1	3784.2	3904.0
10°	2476.2	2492.7	2546.1	2636.5	2710.1	2756.2	2973.6	3218.7	3495.0	3771.4	3946.4
12.5°	2288.2	2297.4	2317.7	2398.8	2492.7	2542.5	2776.5	3056.5	3412.1	3776.8	4018.2
15°	2275.3	2271.6	2247.7	2280.9	2365.6	2417.2	2645.6	2945.9	3338.3	3795.3	4103.0
17.5°	2343.5	2334.3	2277.2	2277.2	2347.2	2389.5	2590.4	2887.0	3301.5	3837.7	4222.7
20°	2448.5	2433.8	2339.8	2332.4	2400.6	2444.9	2623.6	2890.7	3308.9	3916.9	4383.0
22.5°	2581.2	2564.6	2422.8	2426.5	2500.1	2544.4	2719.4	2957.0	3355.0	4014.5	4554.4
25°	2754.4	2735.9	2568.2	2560.9	2638.3	2677.0	2861.3	3074.9	3419.4	4136.1	4779.2
27.5°	2984.6	2945.9	2745.1	2734.1	2817.0	2866.7	3032.6	3233.4	3533.7	4303.8	5081.3
30°	3174.4	3132.1	2940.5	2911.0	2999.4	3038.1	3209.4	3447.1	3758.4	4596.7	5499.5
32.5°	3423.1	3360.5	3135.8	3058.4	3152.3	3202.0	3465.5	3845.1	4091.9	4906.2	5996.9
35°	3983.2	3944.5	3670.0	3399.2	3393.7	3456.3	3843.2	4246.7	4434.6	5389.0	6674.9
37.5°	4784.6	4757.0	4466.0	4103.0	3997.9	3968.5	4302.0	4688.8	4981.8	6052.3	7463.5
40°	5715.1	5650.6	5383.4	5075.8	4939.4	4852.8	4843.7	5346.6	5696.6	6953.1	8285.2
42.5°	6382.0	6264.1	5939.8	5917.7	5888.3	5797.9	5536.4	6308.3	6619.7	7922.2	9164.0
45°	7082.1	6903.4	6420.7	6337.8	6326.8	6321.2	6582.8	7446.9	7625.6	8972.4	10066.8
47.5°	7625.6	7483.7	7087.6	7050.8	7096.9	7222.1	7966.5	8655.5	8618.7	9908.3	10824.0
50°	8349.7	8242.8	7802.5	7872.5	8110.2	8314.6	9526.9	9972.8	9434.8	10645.3	11374.9
52.5°	9204.5	9007.4	8598.4	8788.1	9152.9	9493.8	11183.3	11126.1	10007.8	11199.8	11785.7
55°	9945.2	9805.1	9665.1	9862.2	10407.6	10833.2	12679.3	11990.2	10424.2	11645.7	11966.3
57.5°	11198.0	11164.8	11021.1	11222.0	11883.3	12325.5	14018.6	12660.8	10691.3	11877.8	11754.4
60°	13051.4	12998.0	12730.8	12986.9	13849.2	14543.7	15253.0	13263.3	10752.1	11787.5	11144.5
62.5°	15280.7	15098.3	14869.8	15247.5	16430.4	16736.2	16415.6	13620.7	10525.5	11069.0	9674.4
65°	17362.6	17174.6	17180.2	17976.1	19263.9	19472.1	17771.6	13567.3	9862.2	9269.0	7135.5
67.5°	18956.2	18924.9	19149.7	20702.8	22386.7	22243.0	18983.9	12767.7	7896.4	6008.0	3791.6
70°	19037.3	19098.1	19742.9	22364.6	24074.4	23845.9	18880.7	10378.1	4922.9	2763.6	1494.2
71°	18057.2	18466.2	19357.9	22313.1	24173.9	23877.3	18011.1	8692.3	3611.1	1927.2	1077.8
72.5°	15387.5	15603.1	17530.2	20999.4	23387.1	22753.3	15805.8	6092.7	2312.2	1179.1	619.1
75°	8474.9	9005.5	11739.6	16474.5	18705.7	18149.3	10300.7	2894.4	1153.3	644.8	256.1
77.5°	4034.8	3931.7	5728.0	9797.7	12683.0	12653.4	5190.0	1286.0	672.5	436.6	128.9
80°	1153.3	1297.1	2192.4	4657.5	7041.6	7119.0	1993.4	620.9	466.1	340.9	66.4
82.5°	348.2	355.6	805.1	2059.8	3502.3	3301.5	748.0	316.9	335.3	270.8	38.7
85°	60.8	75.5	237.7	725.9	1335.8	1013.3	188.0	151.0	221.1	178.7	22.1
87.5°	3.7	5.6	79.2	82.9	117.9	68.2	33.1	22.1	47.9	47.9	12.9
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°	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8	3859.8
2.5°	3872.7	3883.7	3876.3	3859.8	3832.2	3799.0	3754.7	3717.9	3686.6	3670.0	3690.3
5°	3896.6	3911.4	3874.5	3791.6	3666.3	3530.0	3375.3	3255.5	3161.5	3132.1	3121.0
7.5°	3933.4	3942.7	3843.2	3658.9	3393.7	3071.2	2789.3	2551.7	2367.4	2312.2	2231.1
10°	3981.4	3975.8	3787.9	3445.2	2979.2	2494.6	2057.9	1733.6	1488.7	1400.2	1392.9
12.5°	4055.0	4025.6	3717.9	3154.2	2485.4	1851.6	1311.8	1026.2	871.4	819.9	808.8
15°	4147.2	4077.2	3607.4	2813.3	1903.2	1195.7	808.8	722.3	702.0	698.3	694.6
17.5°	4255.9	4145.4	3461.8	2395.1	1337.5	775.7	676.2	674.3	676.2	672.5	670.6
20°	4403.3	4217.2	3288.6	1899.5	884.3	654.0	644.8	644.8	646.6	644.8	644.8
22.5°	4559.9	4302.0	3074.9	1450.0	666.9	620.9	619.1	622.8	626.4	624.5	624.5
25°	4753.3	4412.5	2793.0	993.1	596.9	593.2	595.1	602.5	609.8	611.7	609.8
27.5°	5033.4	4548.8	2490.9	683.5	547.2	550.9	569.3	587.7	598.8	600.6	600.6
30°	5348.4	4699.9	2096.6	554.6	506.6	506.6	528.7	563.8	587.7	591.4	593.2
32.5°	5753.8	4874.9	1660.0	499.3	467.9	464.3	484.6	526.9	571.1	584.1	584.1
35°	6254.9	5081.3	1234.4	464.3	440.3	431.1	442.2	477.2	534.3	571.1	574.8
37.5°	6842.6	5276.6	902.7	432.9	414.5	401.7	409.0	436.6	482.7	538.0	552.7
40°	7386.1	5449.8	674.3	407.1	388.7	379.5	385.1	398.0	436.6	488.2	497.5
42.5°	7979.3	5584.2	536.1	379.5	363.0	359.3	359.3	364.8	390.6	420.1	421.9
45°	8570.7	5632.2	449.5	346.4	335.3	339.0	337.2	333.5	344.6	340.9	340.9
47.5°	8992.6	5575.1	372.1	315.0	315.0	320.6	311.3	298.5	292.9	270.8	272.7
50°	9281.9	5366.8	305.9	278.2	292.9	300.3	281.9	261.6	241.4	217.4	211.8
52.5°	9401.6	4996.5	250.5	230.3	259.8	269.0	246.9	222.9	191.6	171.3	165.8
55°	9324.3	4539.6	208.1	188.0	219.2	230.3	208.1	180.6	145.6	123.5	119.8
57.5°	8983.5	3994.2	176.9	149.2	175.0	182.4	167.7	138.2	103.2	81.1	81.1
60°	8393.9	3430.5	143.7	117.9	130.8	141.9	127.2	99.5	70.0	49.7	46.1
62.5°	7198.2	2785.6	116.1	92.1	92.1	101.3	88.5	71.8	44.2	25.8	24.0
65°	5197.4	1910.6	92.1	68.2	66.4	66.4	55.3	47.9	25.8	11.0	7.4
67.5°	2824.3	1077.8	73.7	51.6	46.1	44.2	35.0	27.7	11.0	1.9	0.0
70°	1111.0	414.5	57.1	35.0	29.5	27.7	18.4	12.9	7.4	0.0	0.0
71°	753.5	285.6	49.7	29.5	24.0	20.3	14.7	11.0	5.6	0.0	0.0
72.5°	431.1	176.9	38.7	22.1	18.4	14.7	11.0	7.4	5.6	0.0	0.0
75°	188.0	90.2	24.0	16.6	12.9	9.3	7.4	5.6	1.9	0.0	0.0
77.5°	95.8	49.7	16.6	12.9	7.4	5.6	3.7	1.9	0.0	0.0	0.0
80°	53.4	25.8	11.0	7.4	5.6	3.7	1.9	1.9	0.0	0.0	0.0
82.5°	29.5	14.7	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	3.7	0.0	0.0	0.0	0.0	1.9	1.9	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)