

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: P455812

Luminaire Tested: **GALN-SA7A-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455812  
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-SA7A-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA 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: 20889 lumens  
Efficiency: N/A  
Efficacy: 97.2 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

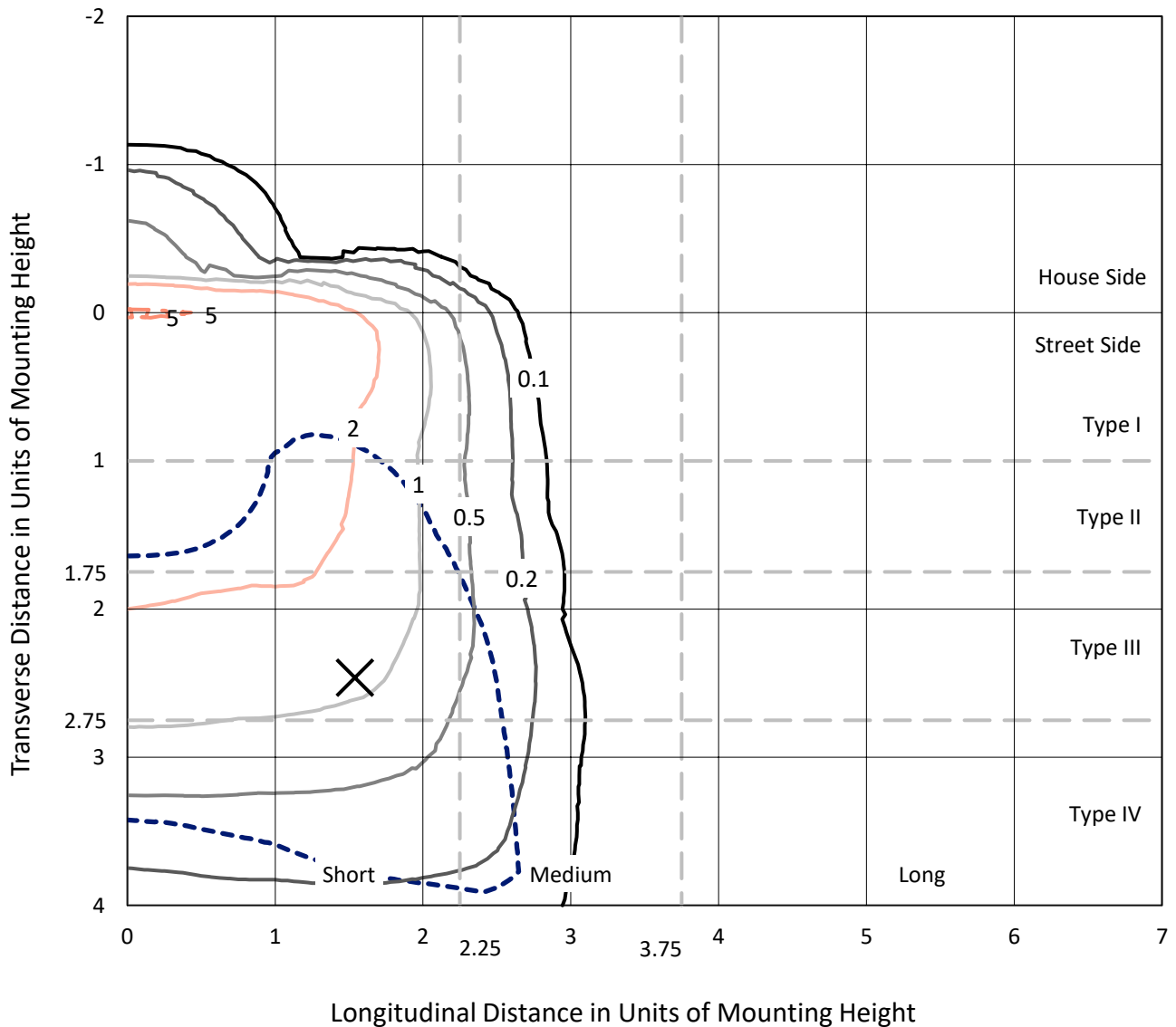
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

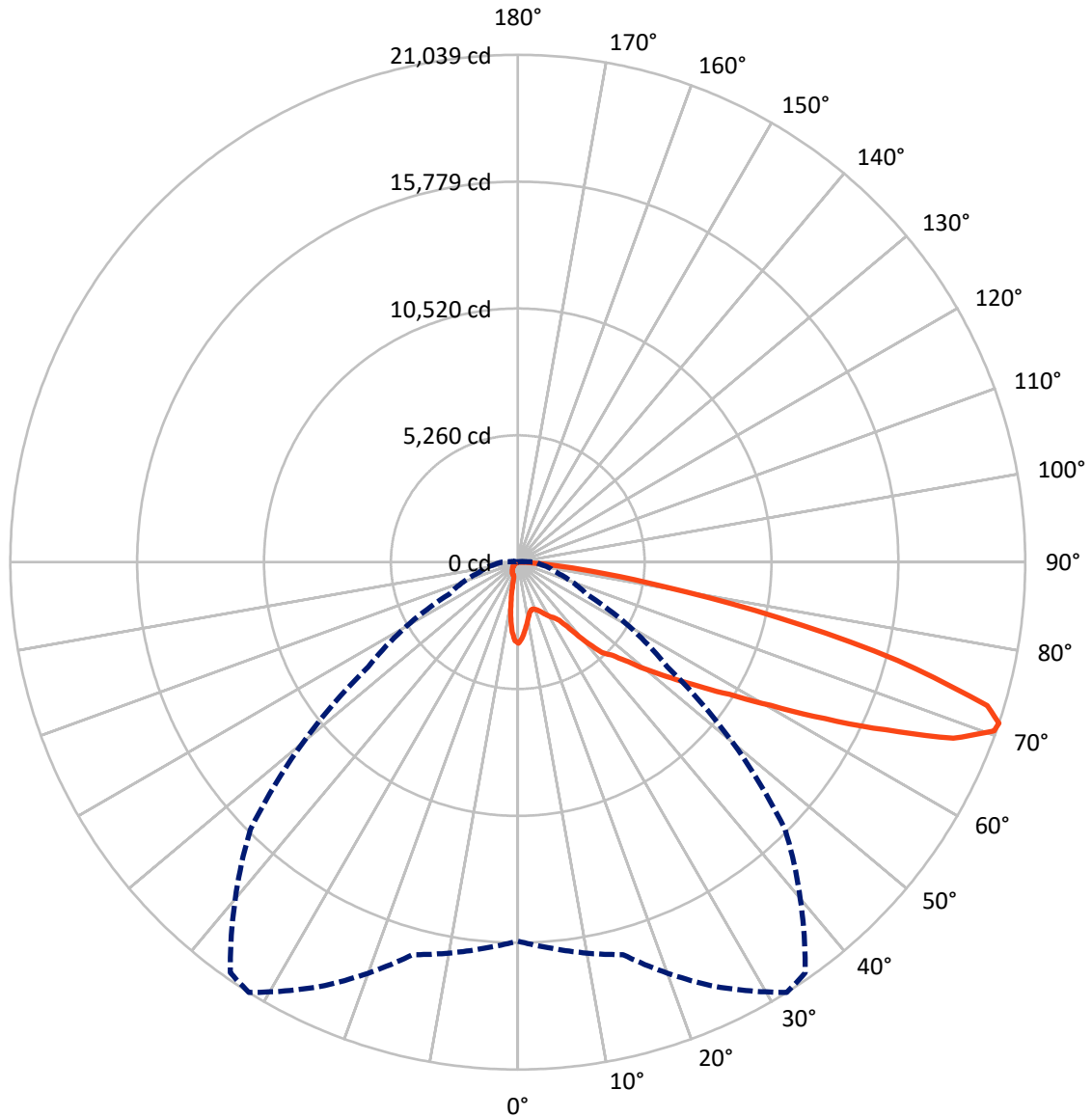
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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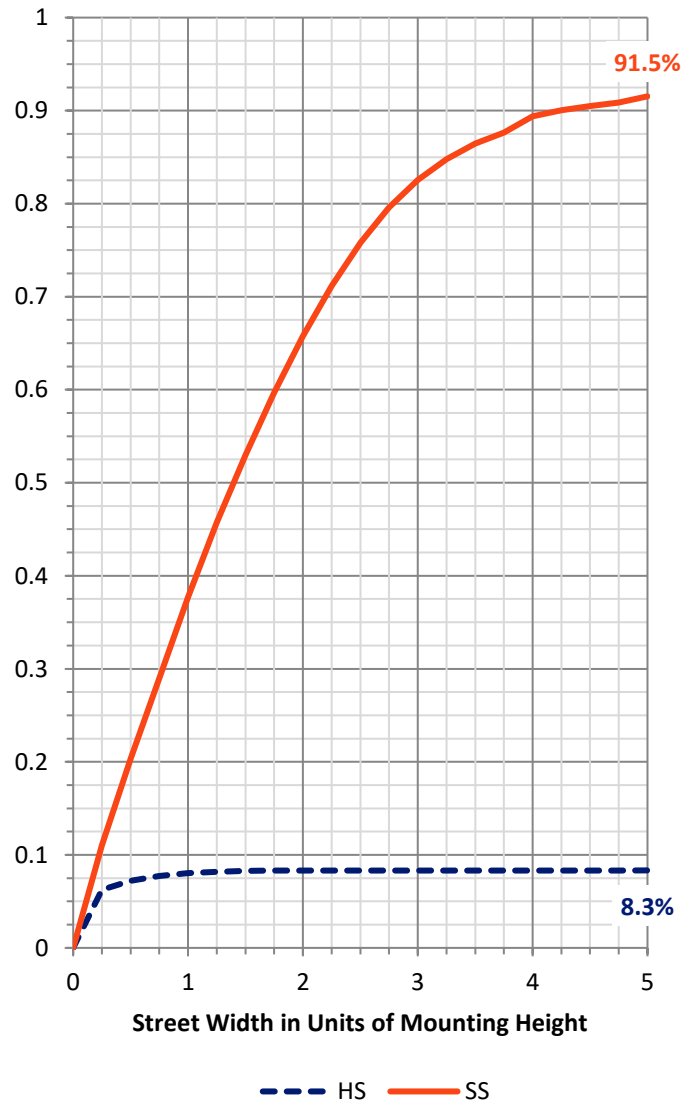
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1749.7	0.0	1749.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	19139.3	0.0	19139.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	20889.0	0.0	20889.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.2	1.3
10°-20°	592.8	2.8
20°-30°	922.3	4.4
30°-40°	1536.5	7.4
40°-50°	2858.1	13.7
50°-60°	4588.8	22.0
60°-70°	6172.2	29.5
70°-80°	3662.0	17.5
80°-90°	283.1	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°	20889.0	100.0
0°-180°	20889.0	100.0



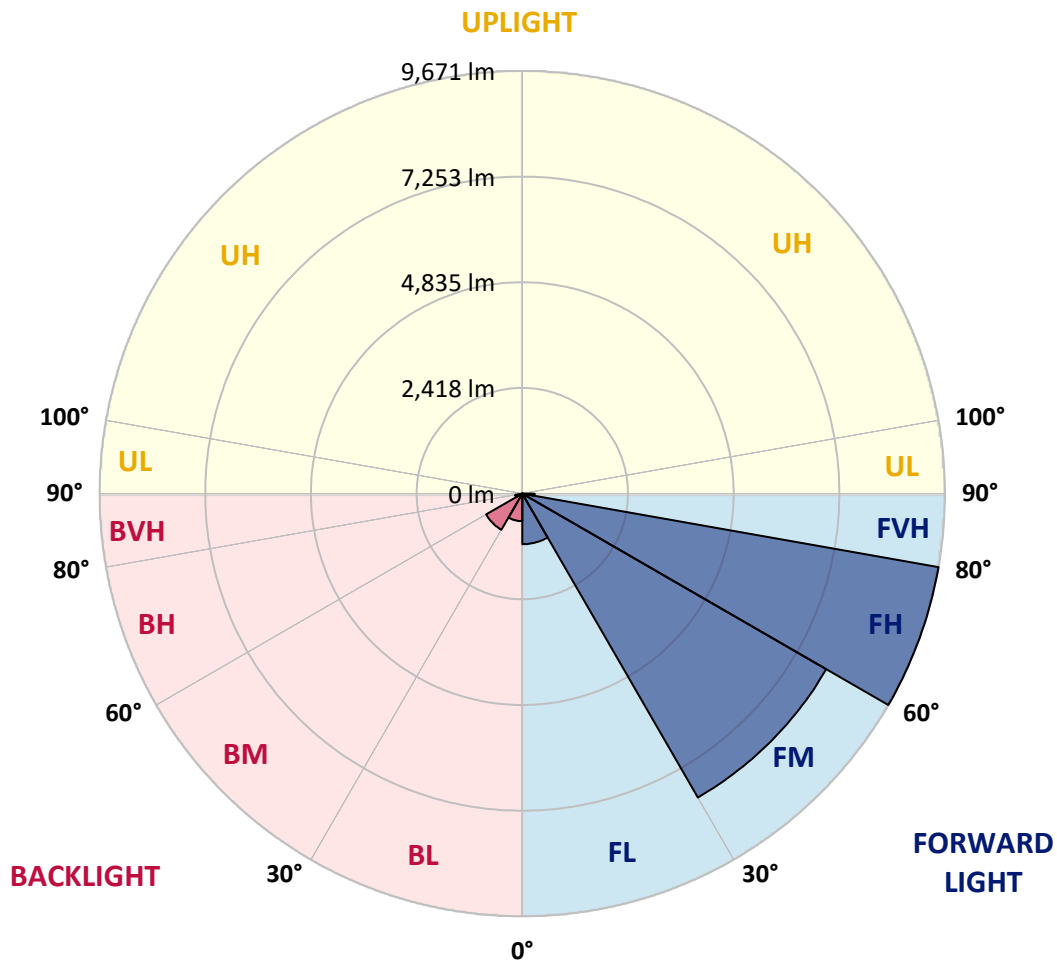
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1157.8	5.5			
FM	(30°-60°)	8029.0	38.4			
FH	(60°-80°)	9670.6	46.3			G4/12000
FVH	(80°-90°)	282.0	1.3			G3/500
BL	(0°-30°)	630.4	3.0	B2/1000		
BM	(30°-60°)	954.5	4.6	B1/1000		
BH	(60°-80°)	163.6	0.8	B1/500		G1/500
BVH	(80°-90°)	1.1	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3
2.5°	3115.5	3147.6	3142.8	3154.0	3181.3	3192.5	3223.0	3256.7	3303.2	3335.2	3356.1
5°	2790.0	2814.1	2817.3	2873.4	2900.7	2931.1	3020.9	3118.8	3227.8	3314.4	3372.1
7.5°	2442.1	2454.9	2480.6	2554.3	2623.3	2653.7	2790.0	2960.0	3131.6	3293.5	3397.8
10°	2155.1	2169.5	2216.0	2294.6	2358.7	2398.8	2588.0	2801.3	3041.8	3282.3	3434.6
12.5°	1991.5	1999.5	2017.2	2087.7	2169.5	2212.8	2416.4	2660.2	2969.6	3287.1	3497.2
15°	1980.3	1977.1	1956.2	1985.1	2058.9	2103.8	2302.6	2564.0	2905.5	3303.2	3570.9
17.5°	2039.6	2031.6	1981.9	1981.9	2042.8	2079.7	2254.5	2512.6	2873.4	3340.0	3675.2
20°	2131.0	2118.2	2036.4	2030.0	2089.3	2127.8	2283.3	2515.9	2879.8	3409.0	3814.7
22.5°	2246.5	2232.0	2108.6	2111.8	2175.9	2214.4	2366.7	2573.6	2919.9	3494.0	3963.8
25°	2397.2	2381.2	2235.2	2228.8	2296.2	2329.8	2490.2	2676.2	2976.0	3599.8	4159.4
27.5°	2597.6	2564.0	2389.2	2379.6	2451.7	2495.0	2639.3	2814.1	3075.5	3745.7	4422.4
30°	2762.8	2725.9	2559.1	2533.5	2610.5	2644.1	2793.3	3000.1	3271.1	4000.7	4786.4
32.5°	2979.3	2924.7	2729.1	2661.8	2743.5	2786.8	3016.1	3346.4	3561.3	4270.1	5219.3
35°	3466.7	3433.0	3194.1	2958.4	2953.6	3008.1	3344.8	3696.0	3859.6	4690.2	5809.4
37.5°	4164.2	4140.2	3886.8	3570.9	3479.5	3453.9	3744.1	4080.8	4335.8	5267.4	6495.7
40°	4974.0	4917.9	4685.4	4417.6	4298.9	4223.5	4215.5	4653.3	4957.9	6051.5	7210.8
42.5°	5554.4	5451.8	5169.6	5150.4	5124.7	5046.1	4818.4	5490.3	5761.3	6894.9	7975.7
45°	6163.8	6008.2	5588.1	5515.9	5506.3	5501.5	5729.2	6481.2	6636.8	7808.9	8761.4
47.5°	6636.8	6513.3	6168.6	6136.5	6176.6	6285.6	6933.4	7533.1	7501.1	8623.5	9420.4
50°	7266.9	7173.9	6790.7	6851.6	7058.5	7236.5	8291.6	8679.6	8211.4	9264.9	9899.8
52.5°	8011.0	7839.4	7483.4	7648.6	7966.1	8262.7	9733.1	9683.4	8710.1	9747.5	10257.4
55°	8655.6	8533.7	8411.8	8583.4	9058.0	9428.4	11035.1	10435.4	9072.5	10135.6	10414.6
57.5°	9745.9	9717.1	9592.0	9766.8	10342.4	10727.2	12200.8	11019.1	9305.0	10337.6	10230.2
60°	11359.0	11312.5	11080.0	11302.9	12053.3	12657.8	13275.2	11543.4	9357.9	10259.0	9699.4
62.5°	13299.2	13140.5	12941.6	13270.3	14299.8	14566.0	14287.0	11854.5	9160.6	9633.7	8419.8
65°	15111.1	14947.6	14952.4	15645.1	16765.9	16947.1	15467.1	11808.0	8583.4	8067.1	6210.3
67.5°	16498.1	16470.9	16666.5	18018.2	19483.8	19358.7	16522.2	11112.1	6872.5	5228.9	3299.9
70°	16568.7	16621.6	17182.8	19464.6	20952.6	20753.8	16432.4	9032.4	4284.5	2405.2	1300.4
71°	15715.6	16071.6	16847.7	19419.7	21039.2	20781.0	15675.6	7565.2	3142.8	1677.2	938.0
72.5°	13392.2	13579.8	15257.1	18276.4	20354.5	19802.9	13756.2	5302.7	2012.4	1026.2	538.8
75°	7376.0	7837.8	10217.3	14338.3	16280.1	15795.8	8965.0	2519.1	1003.8	561.2	222.9
77.5°	3511.6	3421.8	4985.2	8527.3	11038.3	11012.7	4517.0	1119.2	585.3	380.0	112.2
80°	1003.8	1128.8	1908.1	4053.6	6128.5	6195.8	1735.0	540.4	405.7	296.6	57.7
82.5°	303.1	309.5	700.7	1792.7	3048.2	2873.4	651.0	275.8	291.8	235.7	33.7
85°	52.9	65.7	206.8	631.8	1162.5	881.9	163.6	131.5	192.4	155.5	19.2
87.5°	3.2	4.8	68.9	72.2	102.6	59.3	28.9	19.2	41.7	41.7	11.2
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°	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3	3359.3
2.5°	3370.5	3380.1	3373.7	3359.3	3335.2	3306.4	3267.9	3235.8	3208.6	3194.1	3211.8
5°	3391.3	3404.2	3372.1	3299.9	3190.9	3072.3	2937.6	2833.3	2751.6	2725.9	2716.3
7.5°	3423.4	3431.4	3344.8	3184.5	2953.6	2673.0	2427.7	2220.8	2060.5	2012.4	1941.8
10°	3465.1	3460.3	3296.7	2998.5	2592.8	2171.1	1791.1	1508.9	1295.6	1218.6	1212.2
12.5°	3529.2	3503.6	3235.8	2745.1	2163.1	1611.5	1141.7	893.1	758.4	713.5	703.9
15°	3609.4	3548.5	3139.6	2448.5	1656.4	1040.7	703.9	628.6	610.9	607.7	604.5
17.5°	3704.0	3607.8	3012.9	2084.5	1164.1	675.1	588.5	586.9	588.5	585.3	583.7
20°	3832.3	3670.4	2862.2	1653.2	769.7	569.2	561.2	561.2	562.8	561.2	561.2
22.5°	3968.6	3744.1	2676.2	1261.9	580.5	540.4	538.8	542.0	545.2	543.6	543.6
25°	4137.0	3840.3	2430.9	864.3	519.5	516.3	517.9	524.3	530.7	532.4	530.7
27.5°	4380.7	3959.0	2167.9	594.9	476.2	479.4	495.5	511.5	521.1	522.7	522.7
30°	4654.9	4090.5	1824.8	482.6	441.0	441.0	460.2	490.7	511.5	514.7	516.3
32.5°	5007.6	4242.8	1444.7	434.5	407.3	404.1	421.7	458.6	497.1	508.3	508.3
35°	5443.8	4422.4	1074.3	404.1	383.2	375.2	384.8	415.3	465.0	497.1	500.3
37.5°	5955.3	4592.3	785.7	376.8	360.8	349.6	356.0	380.0	420.1	468.2	481.0
40°	6428.3	4743.1	586.9	354.4	338.3	330.3	335.1	346.4	380.0	424.9	432.9
42.5°	6944.6	4860.1	466.6	330.3	315.9	312.7	312.7	317.5	339.9	365.6	367.2
45°	7459.4	4901.8	391.2	301.5	291.8	295.0	293.4	290.2	299.8	296.6	296.6
47.5°	7826.6	4852.1	323.9	274.2	274.2	279.0	271.0	259.8	255.0	235.7	237.3
50°	8078.3	4670.9	266.2	242.1	255.0	261.4	245.3	227.7	210.1	189.2	184.4
52.5°	8182.5	4348.6	218.1	200.4	226.1	234.1	214.9	194.0	166.8	149.1	144.3
55°	8115.2	3951.0	181.2	163.6	190.8	200.4	181.2	157.1	126.7	107.4	104.2
57.5°	7818.5	3476.3	153.9	129.9	152.3	158.7	145.9	120.3	89.8	70.6	70.6
60°	7305.4	2985.7	125.1	102.6	113.8	123.5	110.6	86.6	60.9	43.3	40.1
62.5°	6264.8	2424.5	101.0	80.2	80.2	88.2	77.0	62.5	38.5	22.4	20.8
65°	4523.4	1662.8	80.2	59.3	57.7	57.7	48.1	41.7	22.4	9.6	6.4
67.5°	2458.1	938.0	64.1	44.9	40.1	38.5	30.5	24.1	9.6	1.6	0.0
70°	966.9	360.8	49.7	30.5	25.7	24.1	16.0	11.2	6.4	0.0	0.0
71°	655.8	248.5	43.3	25.7	20.8	17.6	12.8	9.6	4.8	0.0	0.0
72.5°	375.2	153.9	33.7	19.2	16.0	12.8	9.6	6.4	4.8	0.0	0.0
75°	163.6	78.6	20.8	14.4	11.2	8.0	6.4	4.8	1.6	0.0	0.0
77.5°	83.4	43.3	14.4	11.2	6.4	4.8	3.2	1.6	0.0	0.0	0.0
80°	46.5	22.4	9.6	6.4	4.8	3.2	1.6	1.6	0.0	0.0	0.0
82.5°	25.7	12.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.0	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	3.2	0.0	0.0	0.0	0.0	1.6	1.6	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)