

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: P453513

Luminaire Tested: **GALN-SA4C-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4C-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20791 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

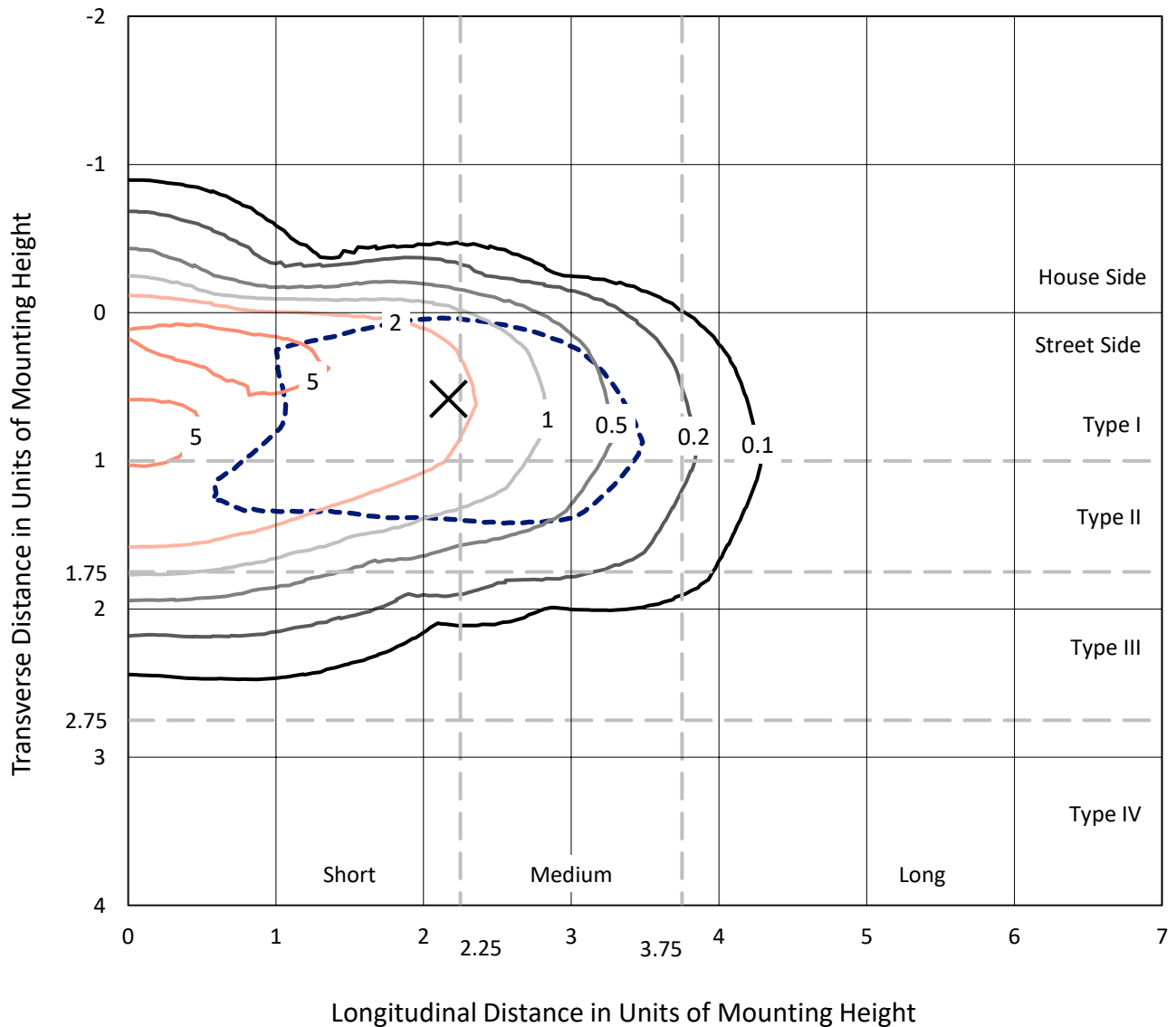
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

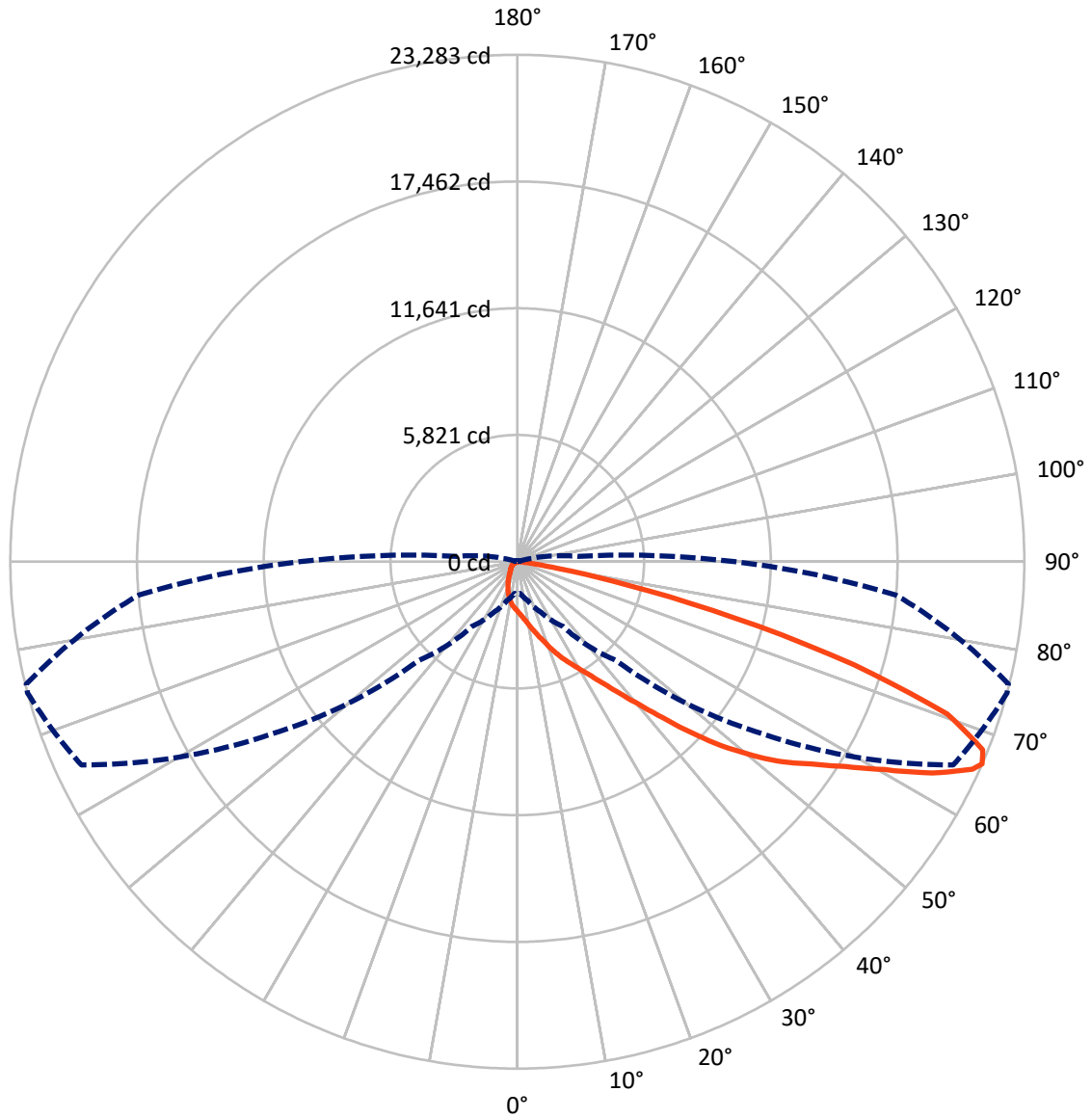
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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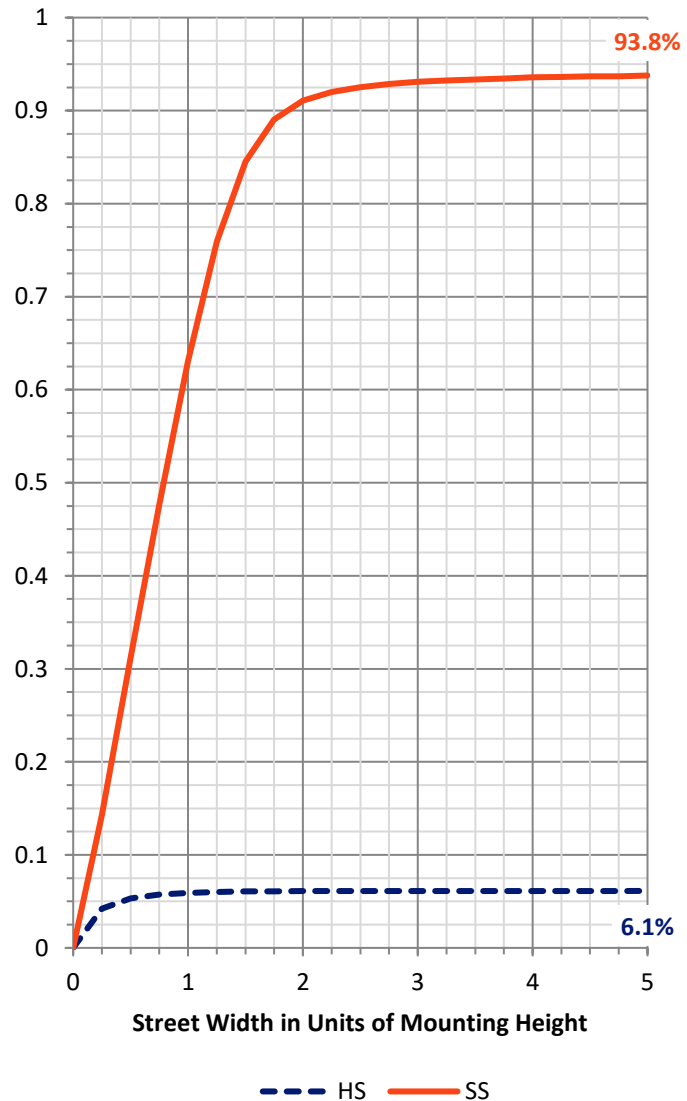
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1283.5	0.0	1283.5
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	19507.5	0.0	19507.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	20791.0	0.0	20791.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.3	1.1
10°-20°	645.4	3.1
20°-30°	1114.5	5.4
30°-40°	2010.3	9.7
40°-50°	3631.7	17.5
50°-60°	5661.8	27.2
60°-70°	5378.5	25.9
70°-80°	2015.7	9.7
80°-90°	113.7	0.5
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°	20791.0	100.0
0°-180°	20791.0	100.0



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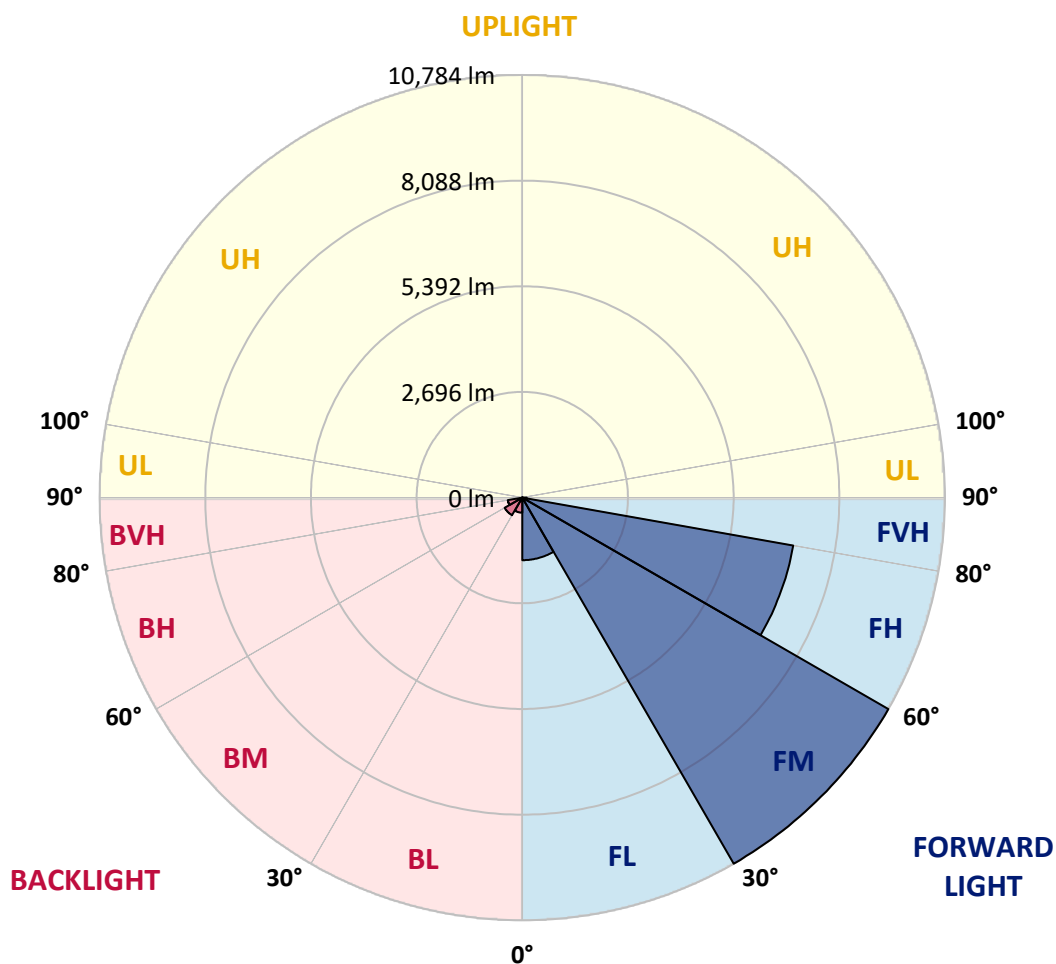
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1595.9	7.7			
FM	(30°-60°)	10784.3	51.9			
FH	(60°-80°)	7019.4	33.8			G3/7500
FVH	(80°-90°)	107.9	0.5			G2/225
BL	(0°-30°)	383.3	1.8	B1/500		
BM	(30°-60°)	519.5	2.5	B1/1000		
BH	(60°-80°)	374.8	1.8	B1/500		G1/500
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2716.5	2682.6	2693.4	2678.0	2642.7	2590.4	2544.3	2478.2	2412.1	2401.3	2327.5
5°	3074.6	3065.4	3053.1	3008.5	2983.9	2904.0	2808.7	2694.9	2558.1	2533.5	2399.8
7.5°	3319.1	3314.5	3320.6	3297.6	3276.0	3203.8	3102.3	2947.0	2734.9	2721.1	2498.2
10°	3399.0	3411.3	3434.4	3471.3	3505.1	3482.0	3405.2	3211.5	2964.0	2924.0	2610.4
12.5°	3352.9	3366.7	3422.1	3520.5	3629.6	3692.7	3661.9	3520.5	3206.9	3174.6	2736.4
15°	3234.5	3251.4	3329.8	3482.0	3677.3	3855.6	3932.5	3831.0	3489.7	3437.5	2888.6
17.5°	3059.3	3083.9	3196.1	3397.5	3665.0	3972.4	4189.2	4155.4	3791.0	3741.8	3054.7
20°	2927.1	2945.5	3040.8	3271.4	3612.7	4037.0	4433.6	4529.0	4163.1	4078.5	3249.9
22.5°	3014.7	3020.8	3053.1	3191.5	3518.9	4053.9	4648.9	4917.9	4558.2	4482.8	3452.8
25°	3443.6	3382.1	3349.8	3319.1	3498.9	4038.5	4844.1	5323.8	4951.7	4871.8	3654.2
27.5°	4120.0	4092.4	3929.4	3711.1	3669.6	4058.5	4973.2	5708.1	5322.2	5236.1	3851.0
30°	4856.4	4808.7	4708.8	4389.1	4067.8	4200.0	5067.0	6081.7	5760.4	5646.6	4030.9
32.5°	5532.8	5563.6	5414.5	5085.5	4713.4	4501.3	5188.5	6489.0	6263.1	6121.6	4239.9
35°	6321.5	6383.0	6153.9	5838.8	5403.7	5045.5	5425.2	6948.7	6901.0	6722.7	4562.8
37.5°	7122.4	7159.3	7019.4	6576.7	6184.7	5737.3	5871.0	7516.0	7686.6	7534.4	4948.6
40°	7795.8	7846.5	7743.5	7349.9	6931.8	6538.2	6518.3	8134.0	8621.3	8464.5	5523.6
42.5°	8310.8	8349.2	8352.3	8074.0	7697.4	7519.0	7343.8	8922.6	9792.8	9611.3	6190.8
45°	8961.1	9016.4	8984.1	8795.0	8513.7	8481.4	8390.7	9875.8	11194.8	10965.7	7056.3
47.5°	9966.5	10003.4	9923.4	9700.5	9414.6	9465.3	9411.5	10944.2	12624.5	12427.7	7952.6
50°	10664.4	10725.9	10839.7	10928.8	10721.3	10533.7	10373.9	11941.9	13982.0	13805.2	8868.8
52.5°	10656.7	10758.2	11117.9	11566.8	12020.3	11963.5	11503.8	13044.2	15277.9	15059.6	9729.7
55°	9938.8	10135.6	10664.4	11460.7	12716.7	13342.4	13133.4	14320.2	16397.1	16249.5	10727.4
57.5°	8456.8	8576.7	9311.6	10424.6	12327.8	13991.2	15021.2	16049.7	17739.2	17670.0	12277.1
60°	5688.1	5741.9	6687.4	8063.3	10495.3	13344.0	16404.8	18142.0	19391.8	19358.0	14086.5
62.5°	3259.1	3282.2	3967.8	5128.5	7468.3	11308.6	16521.6	20723.1	21373.4	21391.9	16180.3
65°	1754.1	1766.4	2319.8	3010.1	4544.3	8060.2	14856.7	22137.5	22975.3	23010.7	17477.8
66°	1514.3	1455.8	1846.3	2565.8	3615.8	6415.3	13803.6	22086.7	23282.8	23244.3	17431.7
67.5°	1151.5	1203.7	1474.3	1972.4	2679.6	4561.2	11396.2	21104.4	23049.1	22929.2	16723.0
70°	824.0	845.5	1050.0	1406.7	1824.8	2502.8	7282.3	17528.6	20949.1	20787.7	14569.2
72.5°	531.9	555.0	744.1	1017.7	1319.0	1366.7	4077.0	12664.5	16151.1	16128.1	10971.9
75°	379.7	401.2	491.9	728.7	991.6	845.5	1963.2	8535.2	10267.8	10198.6	6787.3
77.5°	275.2	285.9	329.0	476.6	708.7	605.7	910.1	4558.2	5111.6	5353.0	2999.3
80°	158.3	167.6	229.1	290.6	479.6	413.5	435.1	1829.4	1886.3	1795.6	937.8
82.5°	78.4	89.2	136.8	198.3	299.8	278.3	199.9	550.4	581.1	565.7	236.7
85°	18.4	23.1	76.9	130.7	146.0	124.5	96.9	161.4	199.9	195.2	90.7
87.5°	1.5	3.1	27.7	23.1	24.6	41.5	33.8	41.5	64.6	60.0	32.3
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°	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7	2273.7
2.5°	2293.7	2264.5	2179.9	2096.9	2027.7	1955.5	1889.4	1850.9	1835.6	1818.7	1826.3
5°	2326.0	2255.3	2084.6	1937.0	1792.5	1669.5	1571.1	1508.1	1477.4	1472.8	1465.1
7.5°	2369.0	2247.6	1983.1	1752.5	1563.5	1426.6	1314.4	1223.7	1196.0	1171.4	1151.5
10°	2421.3	2233.7	1857.1	1558.8	1357.5	1185.3	1037.7	930.1	874.7	859.4	870.1
12.5°	2476.6	2207.6	1724.9	1380.5	1148.4	928.5	791.7	737.9	722.5	716.4	717.9
15°	2532.0	2175.3	1586.5	1208.3	914.7	741.0	678.0	664.1	658.0	654.9	651.8
17.5°	2582.7	2123.0	1431.2	1040.8	741.0	633.4	610.3	598.0	585.7	581.1	573.4
20°	2642.7	2063.1	1291.4	853.2	627.2	573.4	545.7	522.7	504.2	491.9	490.4
22.5°	2699.5	1986.2	1145.3	707.2	571.9	515.0	470.4	445.8	424.3	408.9	413.5
25°	2730.3	1892.4	1014.6	616.5	521.2	456.6	407.4	376.6	353.6	345.9	344.4
27.5°	2730.3	1777.1	887.0	564.2	475.0	404.3	353.6	324.4	309.0	298.2	299.8
30°	2708.8	1649.5	768.7	524.2	435.1	358.2	310.5	284.4	272.1	264.4	262.9
32.5°	2691.9	1528.1	667.2	485.8	393.6	318.2	276.7	256.7	244.4	236.7	236.7
35°	2718.0	1423.6	588.8	447.4	355.1	287.5	250.6	232.1	219.8	213.7	212.2
37.5°	2787.2	1328.2	528.8	405.9	319.8	261.3	232.1	210.6	198.3	190.6	187.6
40°	2957.8	1274.4	484.3	367.4	285.9	239.8	210.6	190.6	175.3	167.6	166.0
42.5°	3231.5	1276.0	441.2	332.1	259.8	221.4	192.2	169.1	152.2	144.5	143.0
45°	3643.5	1334.4	407.4	298.2	236.7	201.4	172.2	147.6	132.2	124.5	124.5
47.5°	4136.9	1448.2	378.2	269.0	215.2	182.9	152.2	127.6	112.2	106.1	106.1
50°	4671.9	1595.7	349.0	238.3	196.8	163.0	130.7	110.7	98.4	93.8	93.8
52.5°	5217.7	1774.1	319.8	213.7	176.8	141.4	112.2	98.4	87.6	84.6	83.0
55°	5934.1	2001.6	289.0	187.6	155.3	121.4	99.9	86.1	73.8	69.2	67.6
57.5°	7036.3	2344.4	255.2	164.5	127.6	101.5	86.1	72.3	58.4	50.7	49.2
60°	8366.1	2762.6	219.8	144.5	103.0	83.0	69.2	55.3	43.0	33.8	32.3
62.5°	9611.3	3028.5	186.0	121.4	81.5	63.0	49.2	41.5	30.7	21.5	20.0
65°	10161.7	2939.4	153.7	98.4	64.6	44.6	32.3	29.2	18.4	9.2	7.7
66°	9978.8	2807.2	141.4	89.2	58.4	38.4	27.7	24.6	13.8	4.6	4.6
67.5°	9439.2	2495.1	123.0	76.9	50.7	30.7	21.5	18.4	7.7	1.5	0.0
70°	8087.9	2018.5	96.9	56.9	36.9	21.5	12.3	9.2	4.6	0.0	0.0
72.5°	6212.3	1503.5	76.9	43.0	26.1	12.3	6.1	3.1	4.6	0.0	0.0
75°	3806.4	859.4	60.0	32.3	16.9	7.7	4.6	0.0	4.6	1.5	0.0
77.5°	1689.5	385.9	40.0	21.5	12.3	6.1	3.1	0.0	3.1	1.5	0.0
80°	427.4	126.1	23.1	15.4	9.2	4.6	1.5	0.0	3.1	3.1	1.5
82.5°	116.8	46.1	16.9	12.3	7.7	4.6	1.5	0.0	3.1	3.1	3.1
85°	46.1	21.5	15.4	12.3	9.2	4.6	1.5	0.0	3.1	3.1	3.1
87.5°	21.5	15.4	15.4	13.8	10.8	4.6	1.5	0.0	3.1	1.5	3.1
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)