

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: P454952

Luminaire Tested: **GALN-SA6A-760-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454952  
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-SA6A-760-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 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: 22194 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

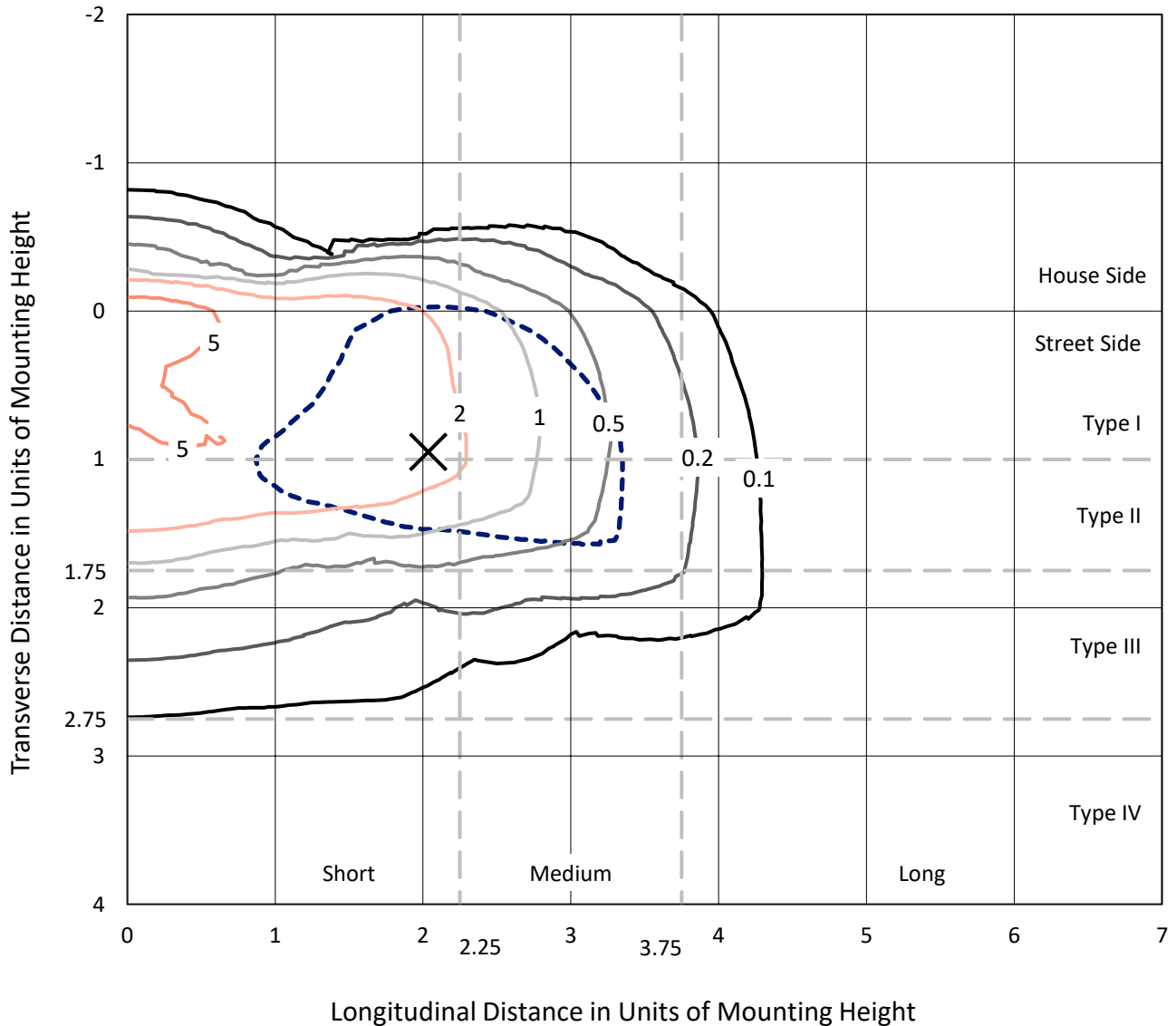
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

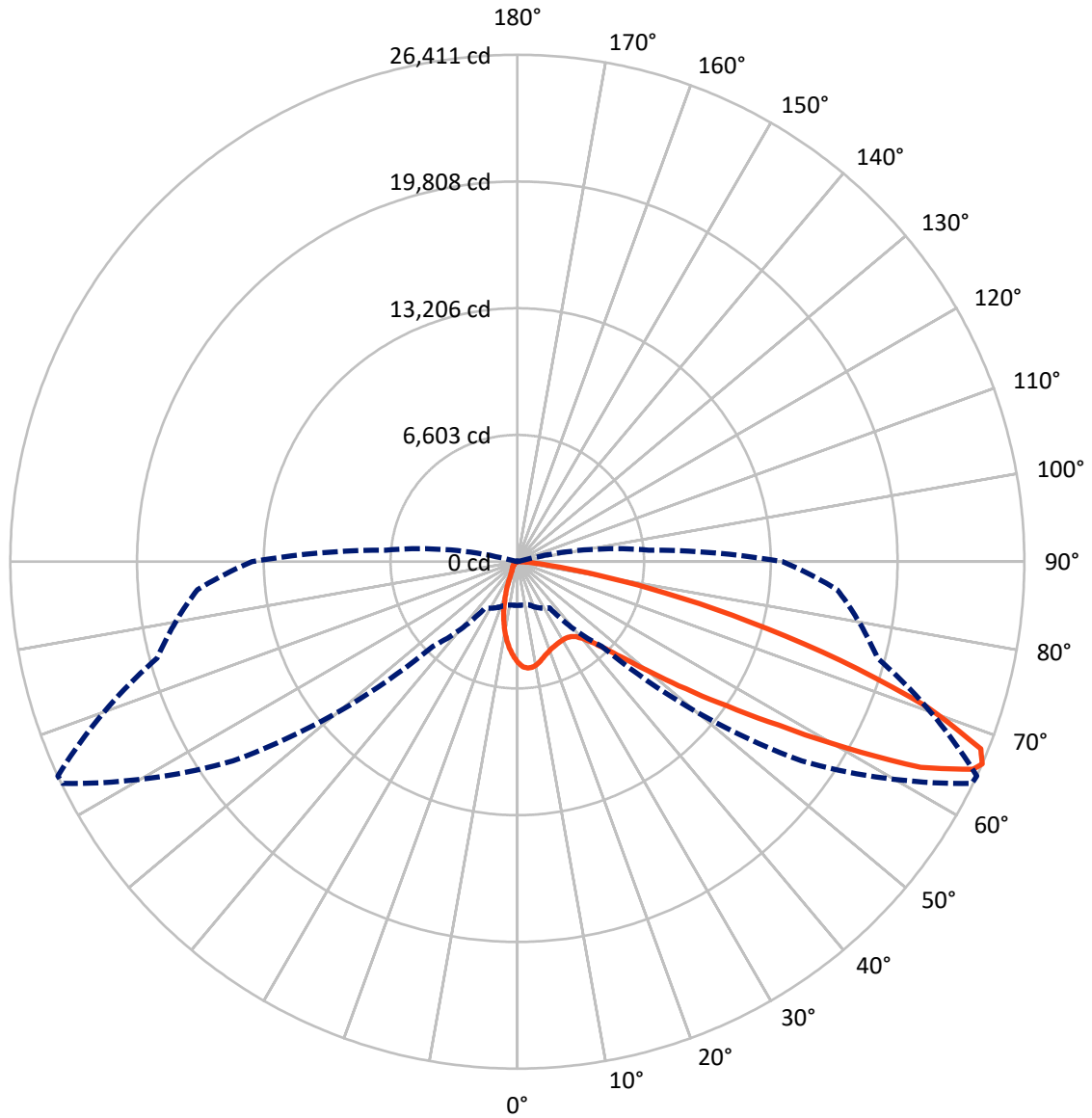
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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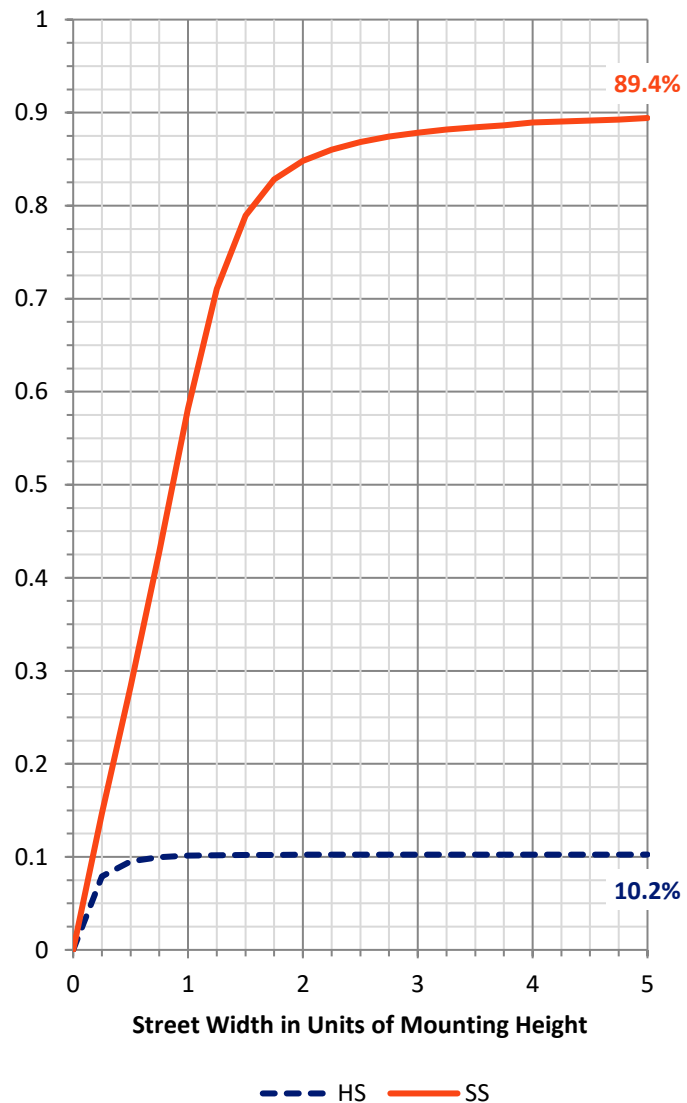
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2295.2	0.0	2295.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	19898.8	0.0	19898.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	22194.0	0.0	22194.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.4	1.9
10°-20°	937.9	4.2
20°-30°	1343.5	6.1
30°-40°	1962.3	8.8
40°-50°	3290.4	14.8
50°-60°	5491.1	24.7
60°-70°	5828.6	26.3
70°-80°	2639.8	11.9
80°-90°	270.1	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°	22194.0	100.0
0°-180°	22194.0	100.0



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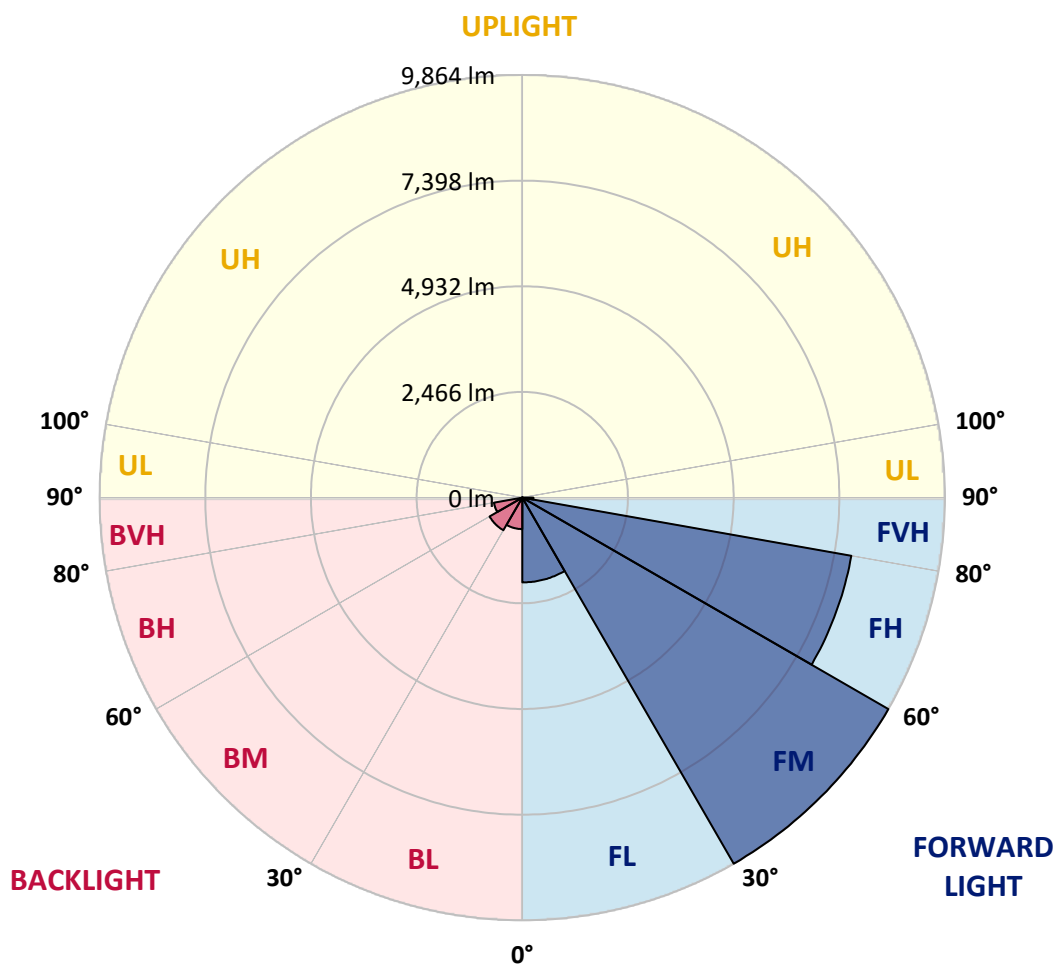
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1977.6	8.9			
FM	(30°-60°)	9863.5	44.4			
FH	(60°-80°)	7796.2	35.1			G4/12000
FVH	(80°-90°)	261.5	1.2			G3/500
BL	(0°-30°)	734.2	3.3	B2/1000		
BM	(30°-60°)	880.2	4.0	B1/1000		
BH	(60°-80°)	672.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	8.6	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0
2.5°	5546.3	5552.3	5559.8	5570.3	5577.8	5555.3	5523.8	5487.9	5480.4	5403.9	5311.0
5°	5249.5	5258.5	5324.5	5360.5	5441.4	5514.8	5561.3	5567.3	5564.3	5492.4	5344.0
7.5°	4826.8	4852.3	4916.7	4979.7	5131.1	5270.5	5435.4	5550.8	5558.3	5538.8	5354.5
10°	4483.5	4500.0	4533.0	4657.4	4783.3	4996.2	5227.0	5444.4	5462.4	5540.3	5345.5
12.5°	4215.2	4239.2	4279.7	4375.6	4527.0	4727.9	4990.2	5282.5	5320.0	5511.9	5320.0
15°	4027.8	4039.8	4080.3	4174.7	4321.6	4507.5	4772.8	5113.1	5146.1	5474.4	5315.5
17.5°	3939.4	3952.9	3981.4	4056.3	4177.7	4350.1	4609.4	4976.7	5018.7	5450.4	5332.0
20°	3963.4	3975.4	3976.9	4015.8	4098.3	4243.7	4489.5	4849.3	4903.3	5435.4	5359.0
22.5°	4099.8	4101.3	4083.3	4065.3	4093.8	4198.7	4416.1	4768.3	4823.8	5432.4	5390.4
25°	4303.7	4308.1	4278.2	4215.2	4158.2	4212.2	4399.6	4715.9	4765.3	5424.9	5409.9
27.5°	4585.5	4584.0	4575.0	4470.0	4308.1	4272.2	4413.1	4687.4	4729.4	5403.9	5417.4
30°	4979.7	4967.7	4948.2	4829.8	4582.5	4417.6	4470.0	4669.4	4708.4	5373.9	5397.9
32.5°	5367.9	5412.9	5409.9	5297.5	4988.7	4676.9	4588.5	4693.4	4721.9	5354.5	5369.4
35°	5820.6	5819.1	5934.6	5892.6	5531.3	5008.2	4790.8	4772.8	4795.3	5367.9	5356.0
37.5°	6240.4	6279.3	6459.2	6502.7	6172.9	5475.9	5077.1	4943.7	4951.2	5459.4	5388.9
40°	6763.5	6838.5	7106.8	7252.2	6961.4	6169.9	5499.9	5257.0	5258.5	5684.2	5513.4
42.5°	7438.1	7556.5	7806.8	8049.7	7893.8	6991.4	6133.9	5753.2	5750.2	6080.0	5798.2
45°	8258.0	8340.5	8625.3	9010.5	8911.6	8138.1	7057.3	6522.2	6483.2	6729.0	6303.3
47.5°	8965.6	9078.0	9367.3	9806.5	10256.2	9538.2	8160.6	7579.0	7553.5	7761.9	7169.8
50°	9274.4	9373.3	9677.6	10293.7	11383.5	11376.0	9803.5	9121.5	9078.0	9190.4	8509.9
52.5°	8935.6	9028.5	9335.8	10103.3	11914.1	13615.5	12183.9	11056.7	11004.2	10860.3	10110.8
55°	7775.4	7851.8	8306.0	9187.4	11710.2	15108.5	15463.8	13447.6	13243.7	12684.6	11923.1
57.5°	6190.9	6151.9	6433.7	7457.6	10514.0	15609.2	18830.5	16426.1	16061.9	14261.6	13456.6
60°	4290.2	4410.1	4524.0	5198.6	7905.8	14741.2	20924.6	20170.6	19691.0	15813.0	14925.6
62.5°	3153.9	3233.4	3308.3	3620.1	4970.7	11770.2	21294.9	24017.1	23591.4	17460.4	16327.2
65°	2494.3	2500.3	2530.3	2837.6	3275.3	7653.9	19515.6	26186.2	26076.7	19046.4	16895.3
66°	2272.5	2274.0	2320.5	2650.2	2939.6	6232.9	18090.0	26351.1	26411.0	19427.1	16728.9
67.5°	1986.2	1980.2	2047.6	2381.9	2677.2	4494.0	15538.7	25682.5	26037.8	19719.4	16130.8
70°	1539.5	1532.0	1614.4	1998.2	2465.9	2998.0	10328.2	22051.9	22624.5	19121.3	14272.1
72.5°	1025.3	1031.3	1172.2	1577.0	2353.4	2639.8	6213.4	16775.4	17584.9	15790.5	11227.6
75°	598.1	608.6	769.0	1172.2	2043.1	2516.8	3516.7	11962.1	12479.2	10903.8	6994.4
77.5°	313.3	317.8	430.2	773.5	1566.5	2337.0	2342.9	7641.9	7884.8	5299.0	2768.7
80°	166.4	161.9	230.8	466.2	1077.8	2052.1	1900.7	4045.8	4206.2	1574.0	700.0
82.5°	63.0	69.0	122.9	305.8	637.1	1473.5	1636.9	1788.3	1732.9	346.3	293.8
85°	12.0	15.0	52.5	181.4	320.8	616.1	1206.7	876.9	812.5	130.4	169.4
87.5°	1.5	3.0	15.0	43.5	46.5	208.4	356.8	242.8	209.9	48.0	70.5
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°	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0	5263.0
2.5°	5266.0	5225.5	5090.6	4957.2	4820.8	4697.9	4613.9	4477.5	4443.1	4393.6	4365.1
5°	5255.5	5161.1	4901.8	4618.4	4354.6	4069.8	3852.4	3642.6	3530.2	3473.2	3452.2
7.5°	5225.5	5075.6	4670.9	4227.2	3804.5	3378.8	3008.5	2726.7	2545.3	2420.9	2337.0
10°	5165.6	4958.7	4402.6	3792.5	3153.9	2591.8	2122.6	1765.8	1490.0	1403.1	1406.1
12.5°	5104.1	4828.3	4102.8	3309.8	2518.3	1809.3	1311.6	1029.8	897.9	854.4	845.4
15°	5047.2	4703.9	3809.0	2842.1	1875.3	1172.2	845.4	746.5	710.5	703.0	701.5
17.5°	5017.2	4588.5	3495.7	2307.0	1308.6	796.0	677.6	650.6	640.1	632.6	629.6
20°	4991.7	4488.0	3195.9	1806.3	894.9	652.1	607.1	581.6	563.6	556.1	551.6
22.5°	4973.7	4384.6	2885.6	1398.6	685.0	578.6	538.1	505.2	479.7	470.7	464.7
25°	4946.7	4270.7	2572.3	1022.3	577.1	514.2	467.7	428.7	395.7	379.2	376.3
27.5°	4907.8	4141.8	2229.0	757.0	515.7	457.2	400.2	352.3	319.3	301.3	302.8
30°	4844.8	4006.8	1885.8	601.1	466.2	398.7	337.3	290.8	259.3	245.8	244.3
32.5°	4769.8	3843.5	1571.0	515.7	421.2	346.3	281.8	241.3	217.4	206.9	205.4
35°	4699.4	3678.6	1250.2	463.2	374.8	298.3	236.8	202.4	184.4	175.4	176.9
37.5°	4660.4	3531.7	974.4	421.2	337.3	256.3	203.9	173.9	157.4	149.9	148.4
40°	4685.9	3411.7	775.0	383.7	295.3	220.4	175.4	149.9	133.4	122.9	122.9
42.5°	4805.8	3359.3	625.1	347.8	256.3	190.4	152.9	128.9	110.9	100.4	101.9
45°	5171.6	3414.7	523.2	314.8	220.4	164.9	131.9	106.4	89.9	82.4	80.9
47.5°	5778.7	3623.1	452.7	280.3	188.9	140.9	110.9	88.4	72.0	66.0	64.5
50°	6840.0	4053.3	400.2	245.8	160.4	119.9	91.4	70.5	57.0	51.0	51.0
52.5°	8300.0	4991.7	362.8	206.9	134.9	101.9	75.0	57.0	45.0	40.5	39.0
55°	9826.0	5981.0	343.3	173.9	112.4	83.9	60.0	45.0	34.5	30.0	28.5
57.5°	11293.5	6757.5	320.8	140.9	89.9	64.5	46.5	34.5	24.0	21.0	19.5
60°	12701.1	7385.6	272.8	112.4	70.5	46.5	34.5	24.0	16.5	13.5	13.5
62.5°	13960.3	7751.4	214.4	89.9	54.0	33.0	22.5	18.0	12.0	9.0	9.0
65°	14107.2	7276.2	161.9	69.0	39.0	21.0	13.5	13.5	9.0	6.0	6.0
66°	13811.9	6873.0	142.4	63.0	34.5	18.0	12.0	10.5	7.5	4.5	4.5
67.5°	13152.3	6184.9	122.9	54.0	28.5	13.5	9.0	9.0	6.0	3.0	3.0
70°	11364.0	5051.7	97.4	40.5	21.0	10.5	6.0	6.0	4.5	3.0	3.0
72.5°	8661.3	3771.5	79.4	30.0	15.0	7.5	4.5	4.5	4.5	3.0	3.0
75°	5224.0	2031.2	61.5	22.5	13.5	6.0	3.0	4.5	6.0	4.5	3.0
77.5°	1924.7	691.0	48.0	18.0	10.5	6.0	3.0	3.0	6.0	4.5	4.5
80°	472.2	179.9	34.5	15.0	10.5	6.0	3.0	3.0	6.0	6.0	6.0
82.5°	218.9	76.4	24.0	13.5	10.5	6.0	3.0	3.0	4.5	6.0	6.0
85°	125.9	36.0	19.5	15.0	10.5	6.0	3.0	3.0	4.5	6.0	6.0
87.5°	51.0	18.0	18.0	15.0	12.0	7.5	3.0	3.0	3.0	4.5	4.5
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)