

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: P456837

Luminaire Tested: **GALN-SA8A-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456837  
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-SA8A-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 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: 22217 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

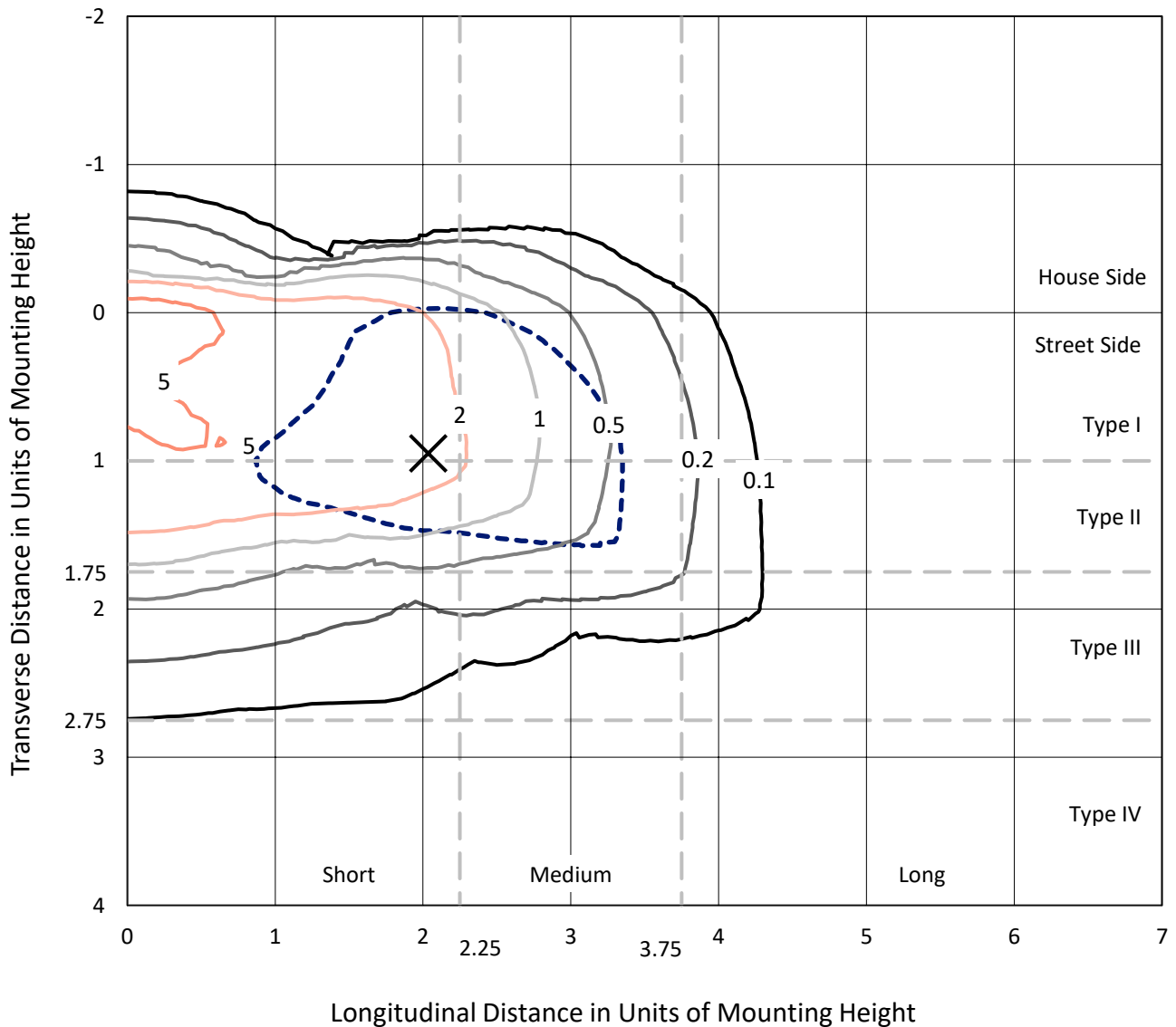
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

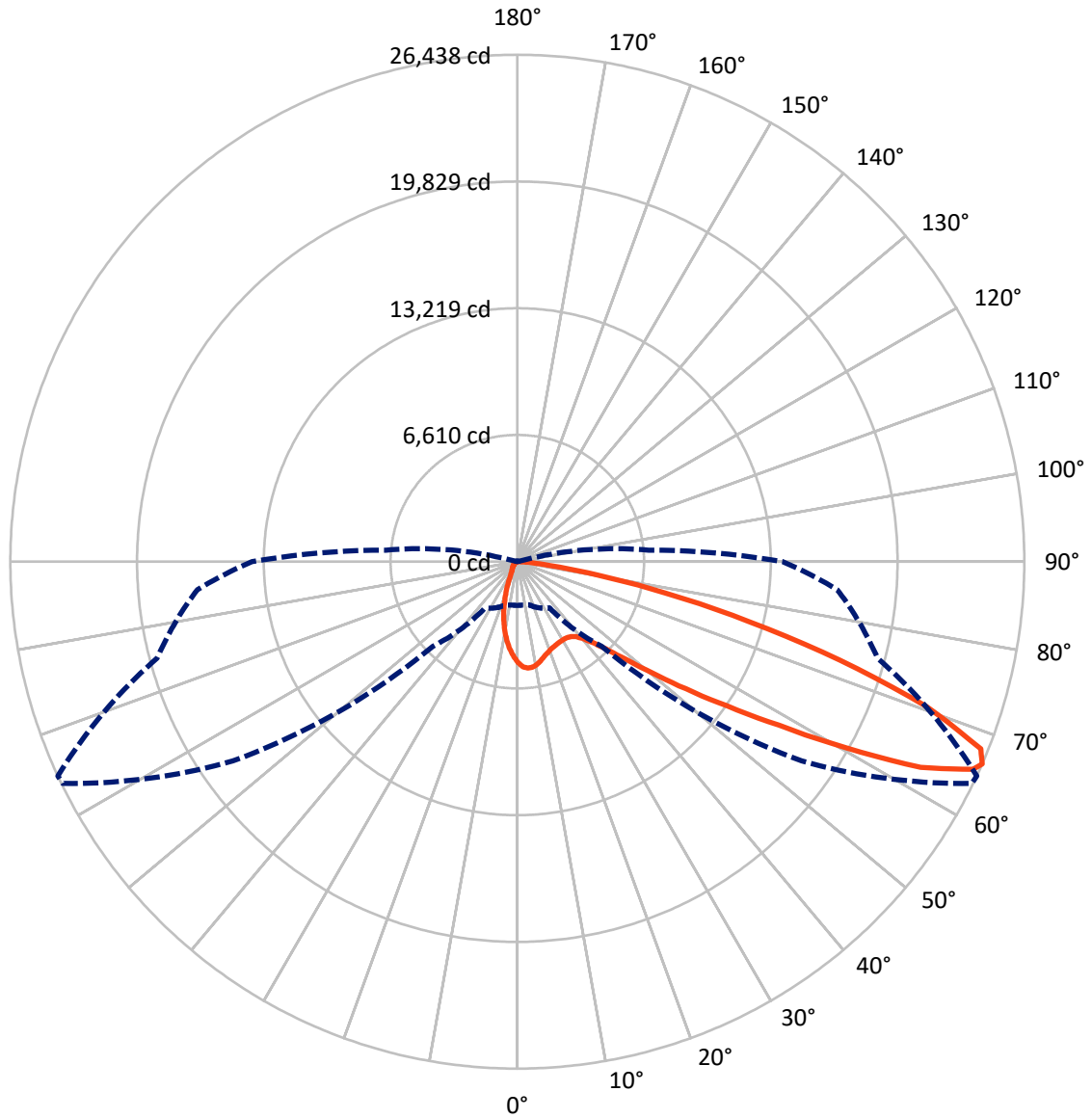
× Max cd  
 - - - 1/2 Max cd



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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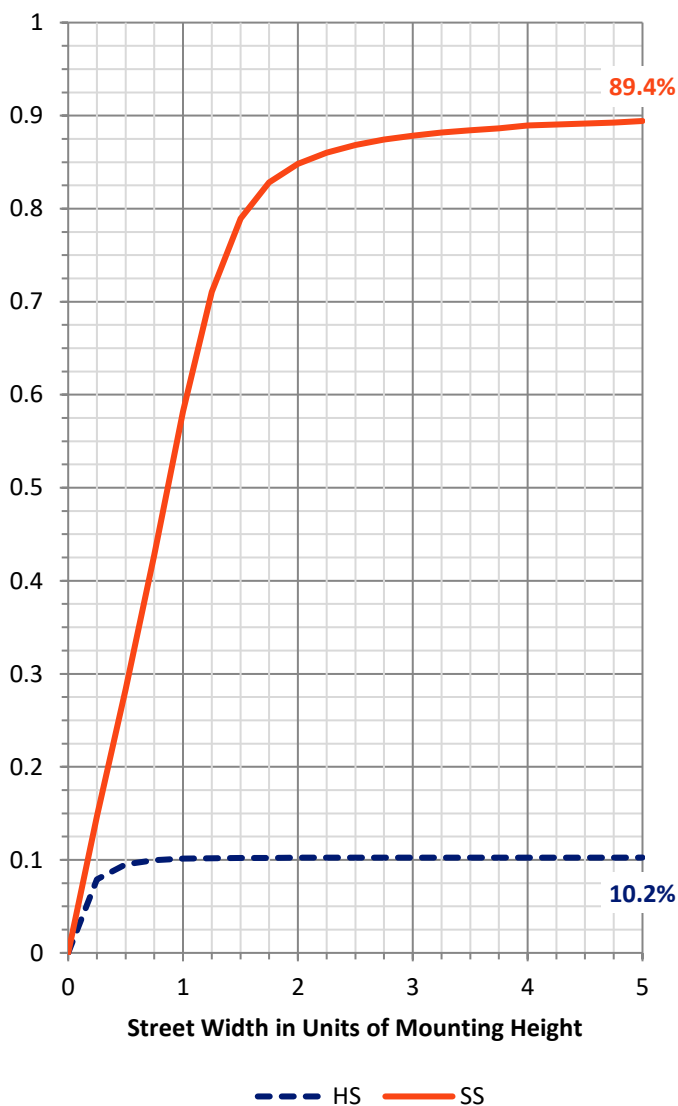
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2297.5	0.0	2297.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	19919.5	0.0	19919.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	22217.0	0.0	22217.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.9	1.9
10°-20°	938.8	4.2
20°-30°	1344.9	6.1
30°-40°	1964.3	8.8
40°-50°	3293.8	14.8
50°-60°	5496.8	24.7
60°-70°	5834.7	26.3
70°-80°	2642.5	11.9
80°-90°	270.4	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°	22217.0	100.0
0°-180°	22217.0	100.0

**Coefficient of Utilization**



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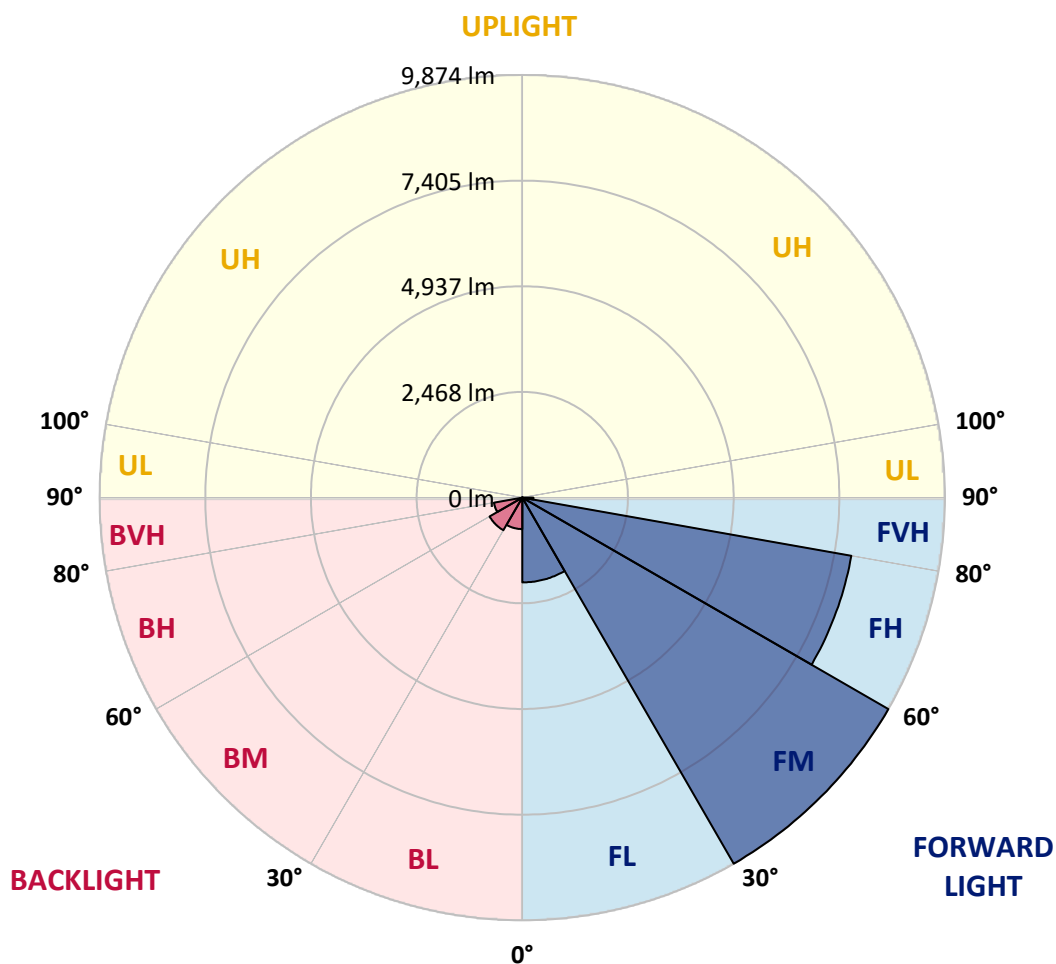
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1979.6	8.9			
FM (30°-60°)	9873.7	44.4			
FH (60°-80°)	7804.3	35.1			G4/12000
FVH (80°-90°)	261.8	1.2			G3/500
BL (0°-30°)	735.0	3.3	B2/1000		
BM (30°-60°)	881.1	4.0	B1/1000		
BH (60°-80°)	672.8	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°	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5
2.5°	5552.1	5558.1	5565.6	5576.1	5583.6	5561.1	5529.6	5493.6	5486.1	5409.5	5316.5
5°	5255.0	5264.0	5330.0	5366.0	5447.0	5520.6	5567.1	5573.1	5570.1	5498.1	5349.5
7.5°	4831.8	4857.3	4921.8	4984.9	5136.4	5276.0	5441.0	5556.6	5564.1	5544.6	5360.0
10°	4488.2	4504.7	4537.7	4662.2	4788.3	5001.4	5232.5	5450.0	5468.0	5546.1	5351.0
12.5°	4219.6	4243.6	4284.1	4380.1	4531.7	4732.8	4995.4	5288.0	5325.5	5517.6	5325.5
15°	4032.0	4044.0	4084.5	4179.1	4326.1	4512.2	4777.8	5118.4	5151.4	5480.0	5321.0
17.5°	3943.5	3957.0	3985.5	4060.5	4182.1	4354.6	4614.2	4981.9	5023.9	5456.0	5337.5
20°	3967.5	3979.5	3981.0	4020.0	4102.5	4248.1	4494.2	4854.3	4908.3	5441.0	5364.5
22.5°	4104.0	4105.5	4087.5	4069.5	4098.0	4203.1	4420.7	4773.3	4828.8	5438.0	5396.0
25°	4308.1	4312.6	4282.6	4219.6	4162.6	4216.6	4404.1	4720.8	4770.3	5430.5	5415.5
27.5°	4590.2	4588.7	4579.7	4474.7	4312.6	4276.6	4417.7	4692.3	4734.3	5409.5	5423.0
30°	4984.9	4972.9	4953.4	4834.8	4587.2	4422.2	4474.7	4674.2	4713.3	5379.5	5403.5
32.5°	5373.5	5418.5	5415.5	5303.0	4993.9	4681.8	4593.2	4698.3	4726.8	5360.0	5375.0
35°	5826.7	5825.2	5940.7	5898.7	5537.1	5013.4	4795.8	4777.8	4800.3	5373.5	5361.5
37.5°	6246.8	6285.9	6465.9	6509.4	6179.3	5481.5	5082.4	4948.9	4956.4	5465.0	5394.5
40°	6770.5	6845.6	7114.2	7259.7	6968.6	6176.3	5505.6	5262.5	5264.0	5690.1	5519.1
42.5°	7445.8	7564.3	7814.9	8058.0	7902.0	6998.6	6140.3	5759.2	5756.2	6086.3	5804.2
45°	8266.6	8349.1	8634.2	9019.9	8920.8	8146.5	7064.6	6528.9	6489.9	6736.0	6309.9
47.5°	8974.9	9087.4	9377.0	9816.7	10266.8	9548.1	8169.1	7586.8	7561.3	7769.9	7177.2
50°	9284.0	9383.0	9687.6	10304.4	11395.3	11387.8	9813.7	9130.9	9087.4	9199.9	8518.7
52.5°	8944.8	9037.9	9345.5	10113.8	11926.5	13629.6	12196.6	11068.1	11015.6	10871.6	10121.3
55°	7783.4	7859.9	8314.6	9196.9	11722.4	15124.2	15479.8	13461.5	13257.5	12697.7	11935.5
57.5°	6197.3	6158.3	6440.4	7465.3	10524.9	15625.3	18850.0	16443.1	16078.5	14276.3	13470.5
60°	4294.6	4414.7	4528.7	5203.9	7914.0	14756.5	20946.3	20191.6	19711.4	15829.4	14941.1
62.5°	3157.2	3236.7	3311.7	3623.9	4975.9	11782.4	21317.0	24042.0	23615.8	17478.5	16344.1
65°	2496.9	2502.9	2532.9	2840.6	3278.7	7661.9	19535.8	26213.3	26103.8	19066.1	16912.8
66°	2274.9	2276.4	2322.9	2653.0	2942.6	6239.3	18108.8	26378.4	26438.4	19447.3	16746.3
67.5°	1988.2	1982.2	2049.8	2384.4	2680.0	4498.7	15554.8	25709.1	26064.7	19739.9	16147.5
70°	1541.1	1533.6	1616.1	2000.2	2468.4	3001.1	10338.9	22074.8	22648.0	19141.2	14286.8
72.5°	1026.4	1032.4	1173.4	1578.6	2355.9	2642.5	6219.8	16792.8	17603.1	15806.9	11239.2
75°	598.7	609.2	769.8	1173.4	2045.3	2519.4	3520.3	11974.5	12492.2	10915.1	7001.6
77.5°	313.6	318.1	430.7	774.3	1568.1	2339.4	2345.4	7649.9	7893.0	5304.5	2771.5
80°	166.6	162.1	231.1	466.7	1078.9	2054.3	1902.7	4050.0	4210.6	1575.6	700.8
82.5°	63.0	69.0	123.0	306.1	637.7	1475.1	1638.6	1790.2	1734.6	346.6	294.1
85°	12.0	15.0	52.5	181.6	321.1	616.7	1208.0	877.8	813.3	130.5	169.6
87.5°	1.5	3.0	15.0	43.5	46.5	208.6	357.1	243.1	210.1	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°	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5	5268.5
2.5°	5271.5	5231.0	5095.9	4962.4	4825.8	4702.8	4618.7	4482.2	4447.7	4398.1	4369.6
5°	5261.0	5166.4	4906.8	4623.2	4359.1	4074.0	3856.4	3646.4	3533.8	3476.8	3455.8
7.5°	5231.0	5080.9	4675.7	4231.6	3808.4	3382.3	3011.6	2729.5	2548.0	2423.4	2339.4
10°	5170.9	4963.9	4407.1	3796.4	3157.2	2594.5	2124.8	1767.7	1491.6	1404.5	1407.5
12.5°	5109.4	4833.3	4107.0	3313.2	2520.9	1811.2	1313.0	1030.9	898.8	855.3	846.3
15°	5052.4	4708.8	3812.9	2845.1	1877.2	1173.4	846.3	747.3	711.3	703.8	702.3
17.5°	5022.4	4593.2	3499.3	2309.4	1310.0	796.8	678.3	651.2	640.7	633.2	630.2
20°	4996.9	4492.7	3199.2	1808.2	895.8	652.7	607.7	582.2	564.2	556.7	552.2
22.5°	4978.9	4389.1	2888.6	1400.0	685.8	579.2	538.7	505.7	480.2	471.2	465.2
25°	4951.9	4275.1	2575.0	1023.4	577.7	514.7	468.2	429.2	396.1	379.6	376.6
27.5°	4912.8	4146.1	2231.3	757.8	516.2	457.7	400.6	352.6	319.6	301.6	303.1
30°	4849.8	4011.0	1887.7	601.7	466.7	399.1	337.6	291.1	259.6	246.1	244.6
32.5°	4774.8	3847.4	1572.6	516.2	421.7	346.6	282.1	241.6	217.6	207.1	205.6
35°	4704.3	3682.4	1251.5	463.7	375.1	298.6	237.1	202.6	184.6	175.6	177.1
37.5°	4665.2	3535.3	975.4	421.7	337.6	256.6	204.1	174.1	157.6	150.1	148.6
40°	4690.8	3415.3	775.8	384.1	295.6	220.6	175.6	150.1	133.5	123.0	123.0
42.5°	4810.8	3362.8	625.7	348.1	256.6	190.6	153.1	129.0	111.0	100.5	102.0
45°	5176.9	3418.3	523.7	315.1	220.6	165.1	132.0	106.5	90.0	82.5	81.0
47.5°	5784.7	3626.9	453.2	280.6	189.1	141.1	111.0	88.5	72.0	66.0	64.5
50°	6847.1	4057.5	400.6	246.1	160.6	120.0	91.5	70.5	57.0	51.0	51.0
52.5°	8308.6	4996.9	363.1	207.1	135.1	102.0	75.0	57.0	45.0	40.5	39.0
55°	9836.2	5987.2	343.6	174.1	112.5	84.0	60.0	45.0	34.5	30.0	28.5
57.5°	11305.2	6764.5	321.1	141.1	90.0	64.5	46.5	34.5	24.0	21.0	19.5
60°	12714.3	7393.3	273.1	112.5	70.5	46.5	34.5	24.0	16.5	13.5	13.5
62.5°	13974.7	7759.4	214.6	90.0	54.0	33.0	22.5	18.0	12.0	9.0	9.0
65°	14121.8	7283.7	162.1	69.0	39.0	21.0	13.5	13.5	9.0	6.0	6.0
66°	13826.2	6880.1	142.6	63.0	34.5	18.0	12.0	10.5	7.5	4.5	4.5
67.5°	13165.9	6191.3	123.0	54.0	28.5	13.5	9.0	9.0	6.0	3.0	3.0
70°	11375.8	5056.9	97.5	40.5	21.0	10.5	6.0	6.0	4.5	3.0	3.0
72.5°	8670.2	3775.4	79.5	30.0	15.0	7.5	4.5	4.5	4.5	3.0	3.0
75°	5229.5	2033.3	61.5	22.5	13.5	6.0	3.0	4.5	6.0	4.5	3.0
77.5°	1926.7	691.8	48.0	18.0	10.5	6.0	3.0	3.0	6.0	4.5	4.5
80°	472.7	180.1	34.5	15.0	10.5	6.0	3.0	3.0	6.0	6.0	6.0
82.5°	219.1	76.5	24.0	13.5	10.5	6.0	3.0	3.0	4.5	6.0	6.0
85°	126.0	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)