

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: P383516

Luminaire Tested: **GLEON-SA8A-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8A-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26759.6 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

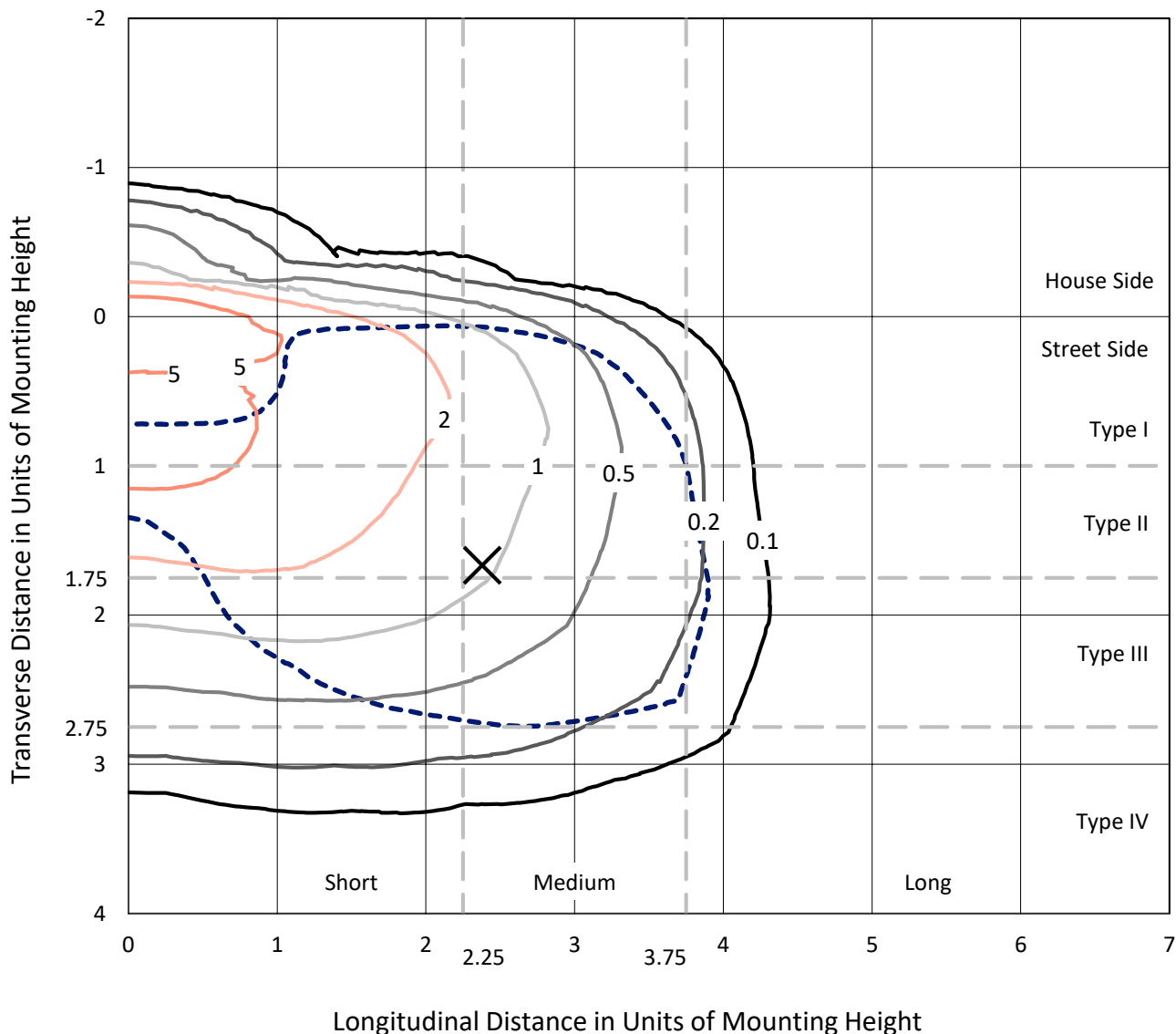
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

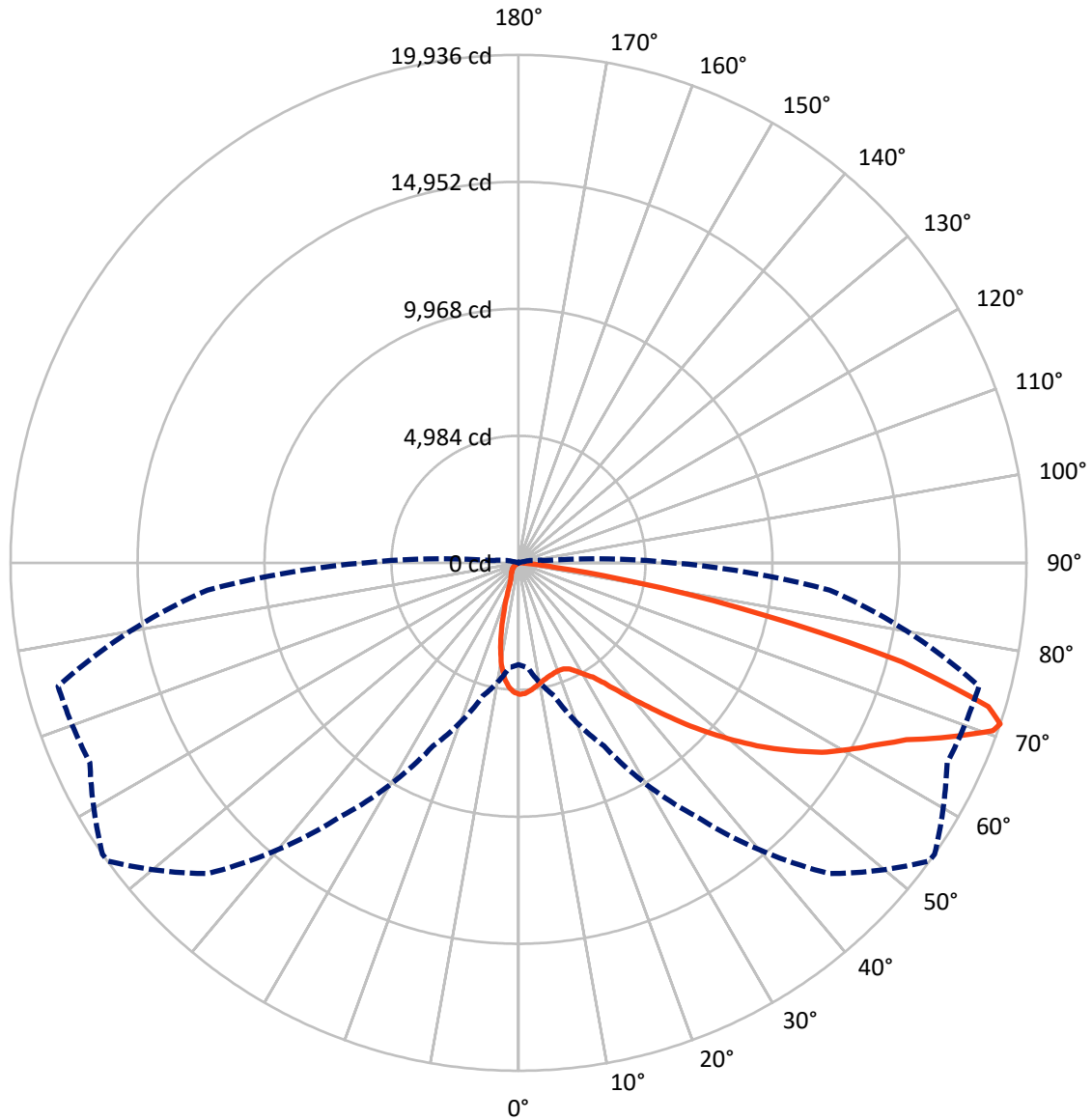
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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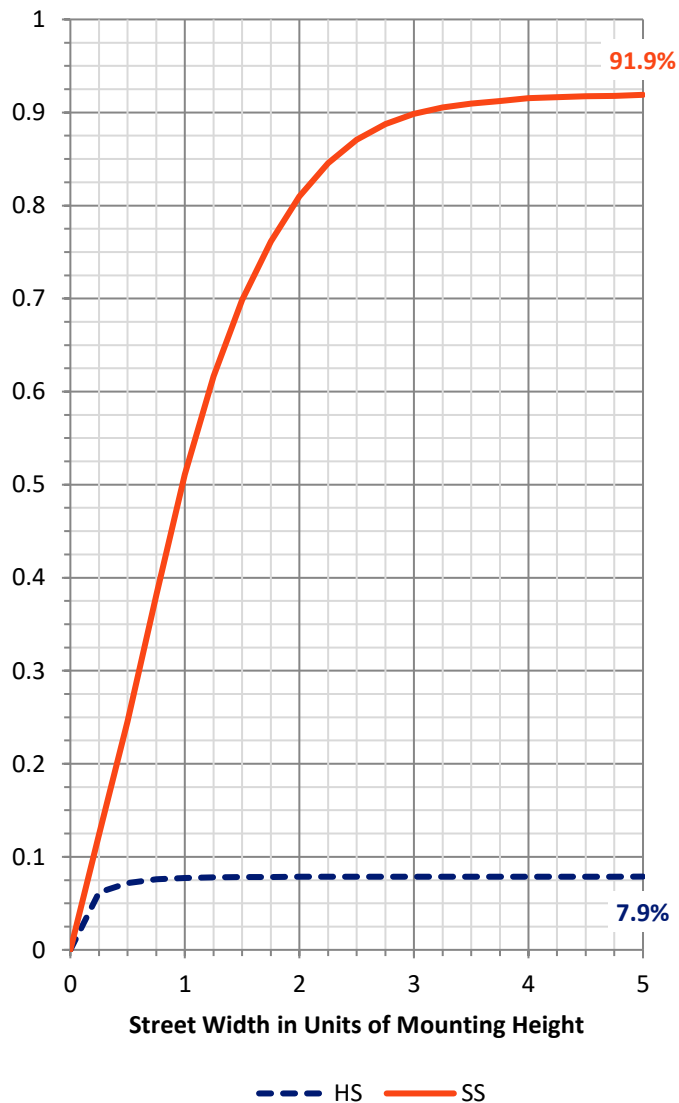
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2118.6	0.0	2118.6
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	24641.0	0.0	24641.0
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	26759.6	0.0	26759.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.0	1.6
10°-20°	993.4	3.7
20°-30°	1596.4	6.0
30°-40°	2712.3	10.1
40°-50°	4209.9	15.7
50°-60°	5660.1	21.2
60°-70°	6924.2	25.9
70°-80°	4048.4	15.1
80°-90°	175.0	0.7
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°	26759.6	100.0
0°-180°	26759.6	100.0

**Coefficient of Utilization**

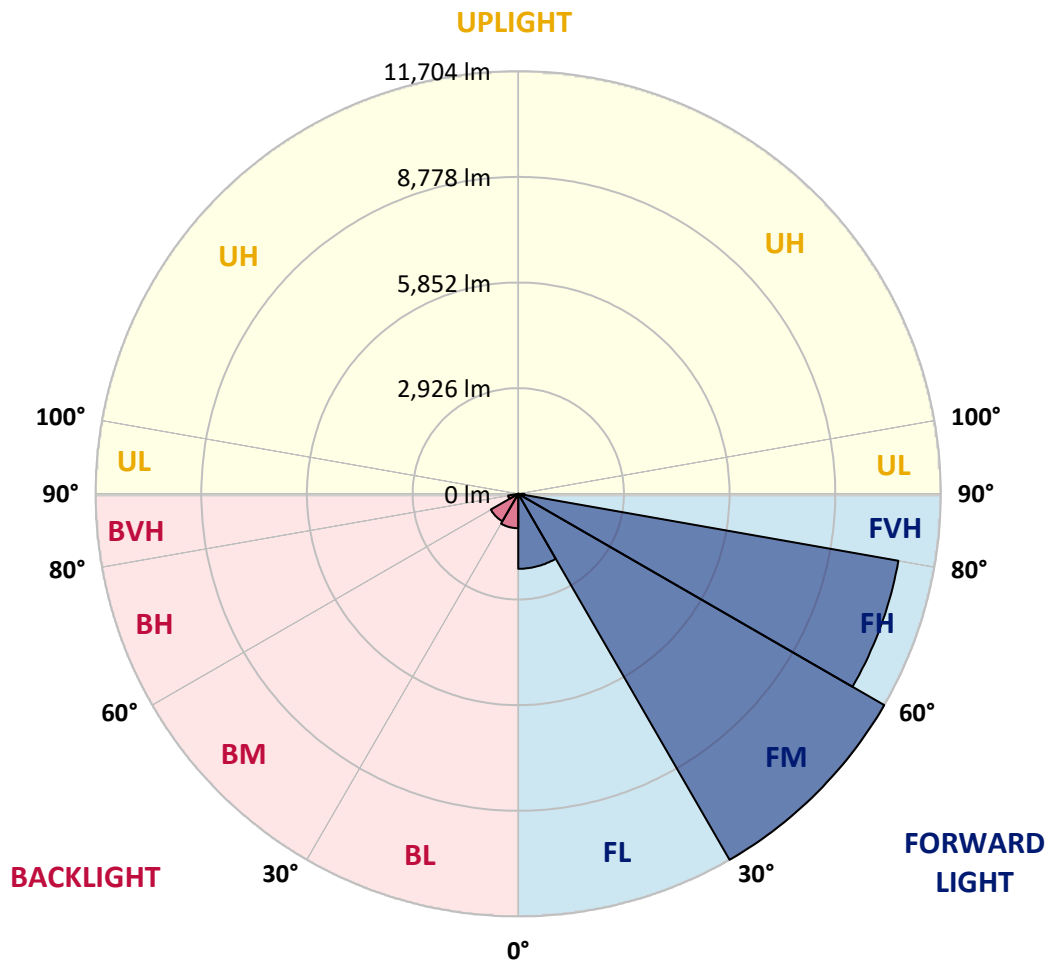


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.2	7.8			
FM (30°-60°)	11703.9	43.7			
FH (60°-80°)	10688.7	39.9			G4/12000
FVH (80°-90°)	172.2	0.6			G2/225
BL (0°-30°)	953.6	3.6	B2/1000		
BM (30°-60°)	878.4	3.3	B1/1000		
BH (60°-80°)	283.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7
2.5°	5009.3	5015.3	5037.0	5046.6	5069.4	5107.9	5127.1	5128.3	5159.5	5171.5	5181.1
5°	4654.9	4690.9	4727.0	4765.4	4835.1	4927.6	5018.9	5027.3	5128.3	5202.8	5242.4
7.5°	4349.7	4382.1	4425.3	4486.6	4585.2	4730.5	4883.2	4901.2	5092.2	5261.7	5350.5
10°	4036.0	4062.5	4125.0	4215.1	4350.9	4545.5	4751.0	4781.0	5059.8	5340.9	5497.2
12.5°	3700.8	3716.4	3792.1	3921.9	4121.4	4368.9	4639.2	4678.9	5039.3	5432.2	5670.1
15°	3446.1	3453.2	3525.3	3660.0	3888.3	4210.2	4552.7	4600.7	5044.1	5541.6	5858.8
17.5°	3381.1	3384.8	3423.3	3515.8	3717.6	4068.4	4484.2	4543.1	5058.6	5648.5	6048.6
20°	3644.3	3619.1	3579.5	3565.0	3651.6	3983.2	4443.4	4509.4	5077.8	5743.5	6219.3
22.5°	4366.4	4291.9	4127.3	3907.5	3774.1	3989.2	4454.2	4520.2	5139.1	5860.0	6416.3
25°	5438.3	5334.9	5054.9	4622.4	4206.7	4162.2	4544.3	4611.6	5258.0	5999.4	6605.0
27.5°	6657.9	6555.7	6213.2	5595.6	4886.7	4504.7	4751.0	4813.4	5434.6	6123.2	6749.2
30°	7825.7	7796.9	7393.2	6691.5	5742.2	5059.8	5017.7	5070.6	5565.6	6197.7	6863.3
32.5°	8815.8	8770.1	8445.8	7763.2	6721.5	5726.6	5331.3	5346.9	5664.2	6293.7	7012.3
35°	9733.8	9677.4	9392.6	8747.3	7726.0	6541.3	5814.3	5791.5	5879.2	6487.2	7228.5
37.5°	10535.2	10586.9	10271.0	9656.9	8627.2	7388.4	6465.6	6397.1	6215.7	6802.0	7542.2
40°	11205.8	11205.8	11041.1	10529.3	9600.4	8264.3	7202.2	7112.0	6721.5	7287.4	7939.9
42.5°	11447.2	11498.9	11560.2	11270.6	10471.6	9175.1	8022.8	7929.1	7434.0	7975.9	8442.2
45°	11461.7	11543.4	11857.0	11855.8	11258.6	10079.9	8948.0	8903.5	8347.2	8860.3	9064.5
47.5°	11258.6	11360.7	11877.4	12170.6	11882.2	10922.2	9959.7	9904.4	9420.2	9944.1	9715.8
50°	10945.0	11057.9	11658.7	12294.4	12306.4	11655.2	11025.5	10942.6	10601.4	11182.9	10388.7
52.5°	10383.9	10602.5	11462.9	12323.2	12585.1	12288.3	12039.6	12003.5	11923.1	12376.1	10924.5
55°	9183.5	9426.2	10971.4	12332.8	12843.4	12849.5	12990.1	12999.7	13161.8	13491.1	11323.5
57.5°	8616.3	8753.4	10113.5	12378.5	13226.8	13486.3	13958.5	14033.0	14284.2	14549.7	11778.9
60°	8259.5	8421.7	9690.6	12316.0	13828.7	14321.3	14856.0	14881.3	15150.4	15641.9	12395.3
62.5°	7974.7	8134.6	9423.8	12075.7	14505.2	15325.9	15733.2	15735.6	15937.5	16943.2	13095.8
65°	7271.8	7406.4	8884.4	11805.3	14952.2	16319.6	16752.1	16736.5	16901.2	18315.3	13909.2
67.5°	6255.3	6358.7	7782.5	10780.3	14783.9	17223.1	18290.1	18238.5	18039.0	19501.3	14228.8
70°	4836.3	4873.5	6134.0	8984.0	13207.5	17570.4	19776.5	19750.0	18737.1	19288.6	13057.3
71°	3997.6	4120.1	5405.8	7929.1	12151.4	17249.6	19920.6	19936.2	18561.6	18709.5	12251.1
72.5°	2321.4	2425.9	3918.3	6089.5	10316.6	15911.0	19173.3	19286.2	17742.2	17017.7	10464.4
75°	497.4	532.3	1452.7	2947.4	5675.0	11151.6	15133.6	15536.2	14460.8	11577.0	6306.9
77.5°	346.1	373.6	622.4	1337.3	1875.7	5510.4	9401.0	9855.2	8639.2	4350.9	2018.7
80°	274.0	305.2	485.4	660.8	507.0	1777.1	4403.7	4681.3	2881.4	970.9	340.0
82.5°	152.6	181.5	378.5	356.9	194.7	337.6	1232.8	1393.8	576.7	195.8	80.5
85°	44.4	54.0	243.9	259.5	82.9	64.9	210.3	260.7	109.4	51.7	36.1
87.5°	0.0	0.0	117.7	99.8	24.0	9.6	19.2	21.6	21.6	21.6	24.0
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°	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7	5160.7
2.5°	5181.1	5189.6	5159.5	5119.9	5077.8	5026.1	4972.0	4930.0	4928.8	4908.3	4887.9
5°	5244.8	5240.0	5157.0	5030.9	4882.0	4727.0	4579.1	4412.1	4356.8	4288.4	4265.6
7.5°	5362.5	5328.9	5153.5	4877.1	4550.3	4225.9	3890.6	3553.0	3408.8	3279.0	3256.2
10°	5510.4	5446.7	5130.7	4646.5	4046.8	3448.5	2942.6	2483.6	2281.7	2126.7	2119.6
12.5°	5664.2	5566.8	5067.0	4298.0	3387.2	2546.1	1963.3	1511.5	1343.4	1235.2	1244.8
15°	5825.2	5679.7	4930.0	3828.2	2636.2	1727.8	1206.4	940.9	873.5	845.9	853.1
17.5°	5989.8	5757.9	4739.0	3262.2	1894.9	1115.1	835.0	760.6	760.6	766.6	769.0
20°	6132.8	5799.9	4457.7	2627.8	1284.5	812.2	730.5	719.7	725.8	735.4	736.6
22.5°	6274.5	5802.3	4091.3	1984.9	898.8	711.3	695.7	690.9	694.5	705.3	706.5
25°	6389.9	5773.5	3632.3	1411.9	717.3	670.4	663.3	660.8	663.3	676.5	676.5
27.5°	6436.7	5668.9	3072.4	992.5	642.9	624.8	622.4	624.8	628.4	638.0	639.2
30°	6441.6	5486.3	2462.0	718.5	582.8	563.5	568.3	576.7	573.2	570.8	573.2
32.5°	6453.6	5274.8	1867.2	591.2	532.3	502.3	496.2	496.2	481.8	473.4	468.6
35°	6493.3	5026.1	1354.2	531.1	480.6	445.7	422.9	396.6	368.9	354.5	350.8
37.5°	6555.7	4765.4	969.6	491.4	434.9	395.3	352.0	305.2	265.6	254.7	254.7
40°	6669.9	4496.2	717.3	460.2	398.9	349.6	284.8	223.5	187.4	181.5	181.5
42.5°	6850.0	4212.6	572.0	432.5	367.7	302.8	217.5	162.2	135.8	132.2	131.0
45°	7037.6	3900.3	499.9	406.2	334.1	248.7	161.0	120.2	104.5	100.9	100.9
47.5°	7225.0	3567.5	465.0	380.9	301.6	193.5	120.2	94.9	87.8	87.8	88.9
50°	7383.5	3220.2	439.8	353.2	259.5	146.6	94.9	80.5	78.1	82.9	84.1
52.5°	7423.2	2878.9	408.5	318.4	207.8	111.8	78.1	70.9	70.9	70.9	70.9
55°	7399.2	2614.6	367.7	275.2	153.8	88.9	67.3	62.5	61.3	61.3	61.3
57.5°	7480.9	2458.4	294.4	213.9	110.6	72.1	58.9	55.2	52.9	51.7	51.7
60°	7645.5	2356.3	210.3	153.8	82.9	60.1	50.5	46.9	43.2	40.9	40.9
62.5°	7864.2	2267.3	156.2	114.1	63.7	48.1	42.0	38.5	33.6	31.2	31.2
65°	8032.5	2108.7	119.0	85.3	48.1	38.5	32.4	31.2	24.0	21.6	20.4
67.5°	7775.3	1760.3	96.1	62.5	36.1	30.0	25.2	24.0	14.4	12.0	12.0
70°	6668.7	1225.5	76.9	45.6	26.5	24.0	20.4	15.6	10.8	9.6	9.6
71°	6047.4	1023.8	69.7	38.5	22.8	22.8	19.2	13.2	9.6	8.4	8.4
72.5°	5023.7	727.0	58.9	30.0	20.4	24.0	20.4	12.0	9.6	8.4	7.2
75°	2916.2	304.0	40.9	20.4	15.6	28.9	26.5	10.8	7.2	6.0	6.0
77.5°	877.1	111.8	22.8	13.2	12.0	25.2	30.0	9.6	3.6	1.2	1.2
80°	159.9	48.1	14.4	8.4	8.4	15.6	22.8	4.8	0.0	0.0	0.0
82.5°	56.5	24.0	8.4	4.8	3.6	7.2	10.8	0.0	0.0	0.0	0.0
85°	32.4	16.9	4.8	2.4	0.0	1.2	2.4	0.0	0.0	0.0	0.0
87.5°	21.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	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)