

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: P383292

Luminaire Tested: **GLEON-SA6A-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383292  
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-SA6A-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 19968.7 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

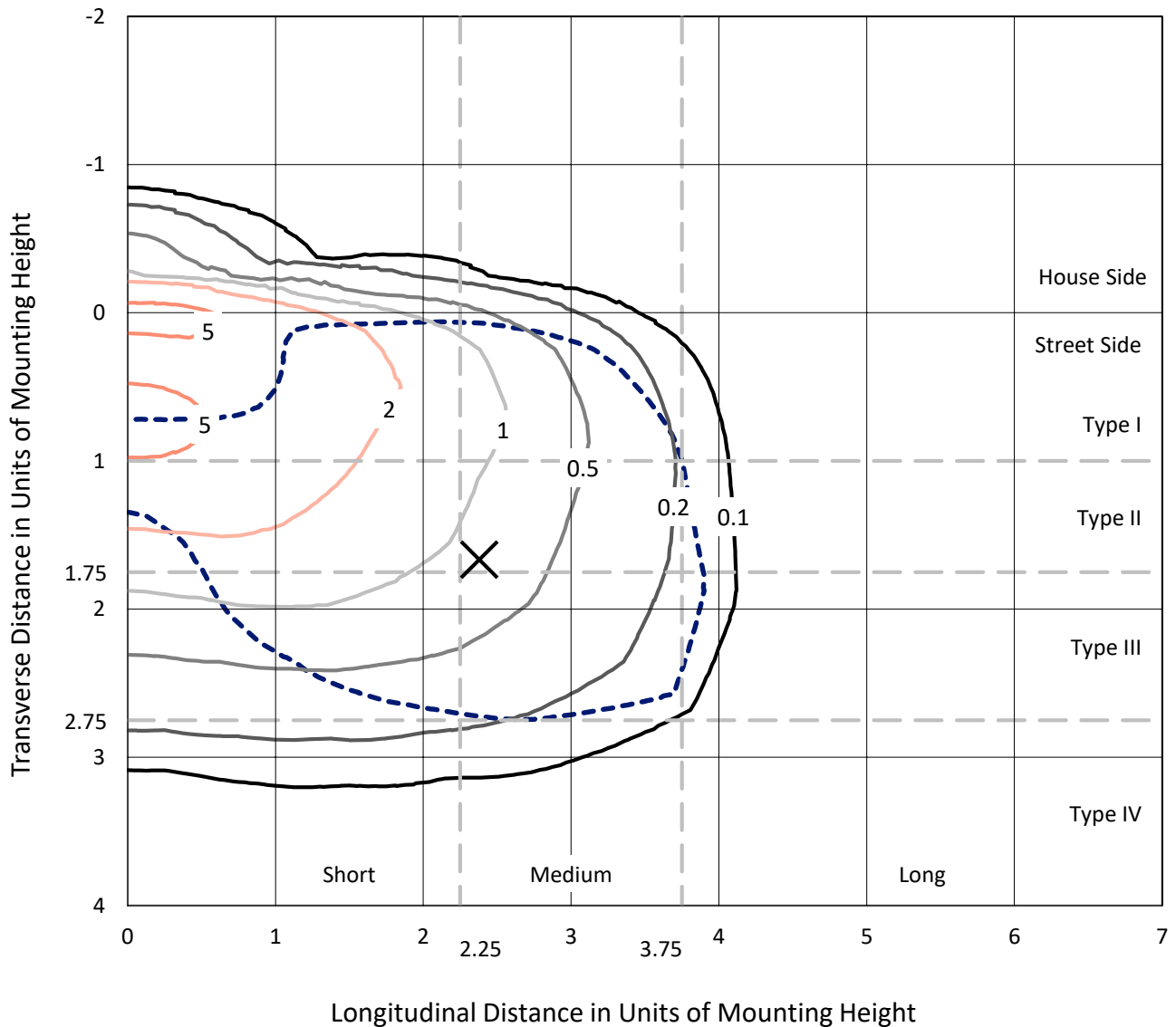
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

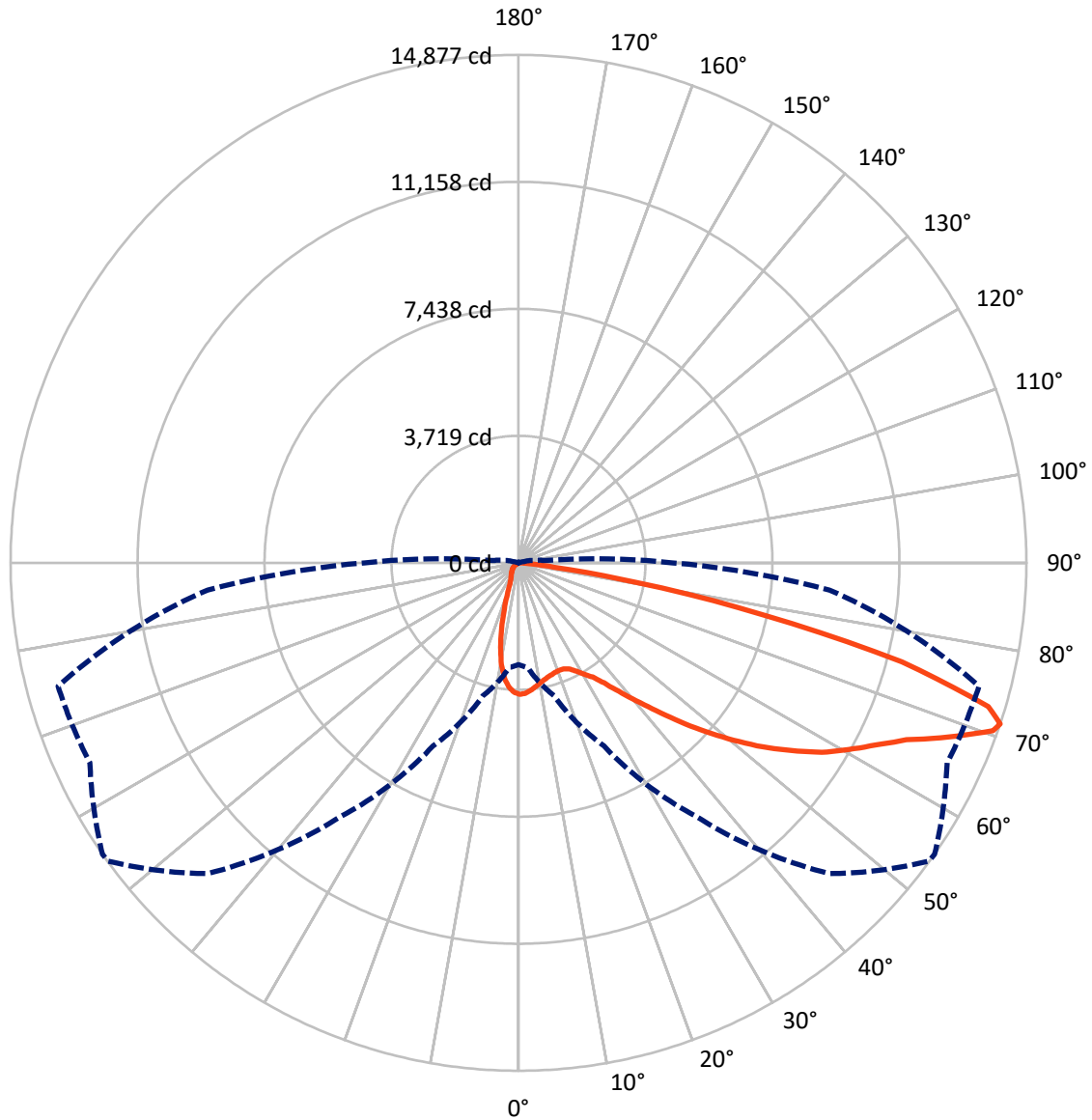
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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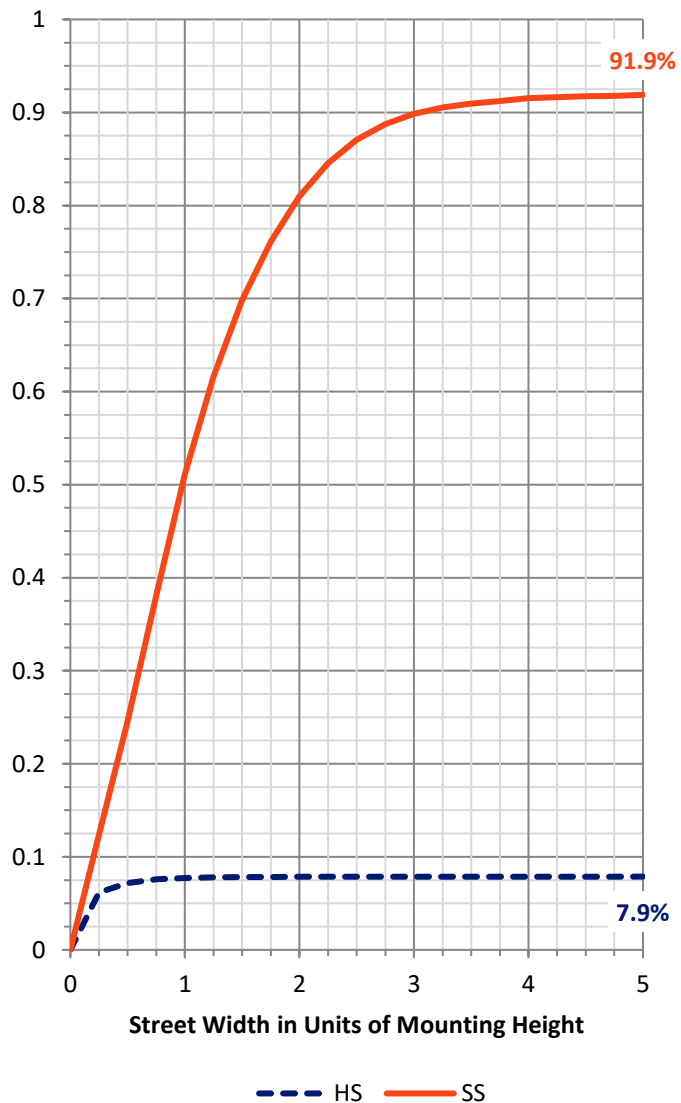
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1581.0	0.0	1581.0
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	18387.7	0.0	18387.7
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	19968.7	0.0	19968.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.4	1.6
10°-20°	741.3	3.7
20°-30°	1191.3	6.0
30°-40°	2024.0	10.1
40°-50°	3141.5	15.7
50°-60°	4223.7	21.2
60°-70°	5167.0	25.9
70°-80°	3021.0	15.1
80°-90°	130.6	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°	19968.7	100.0
0°-180°	19968.7	100.0

**Coefficient of Utilization**

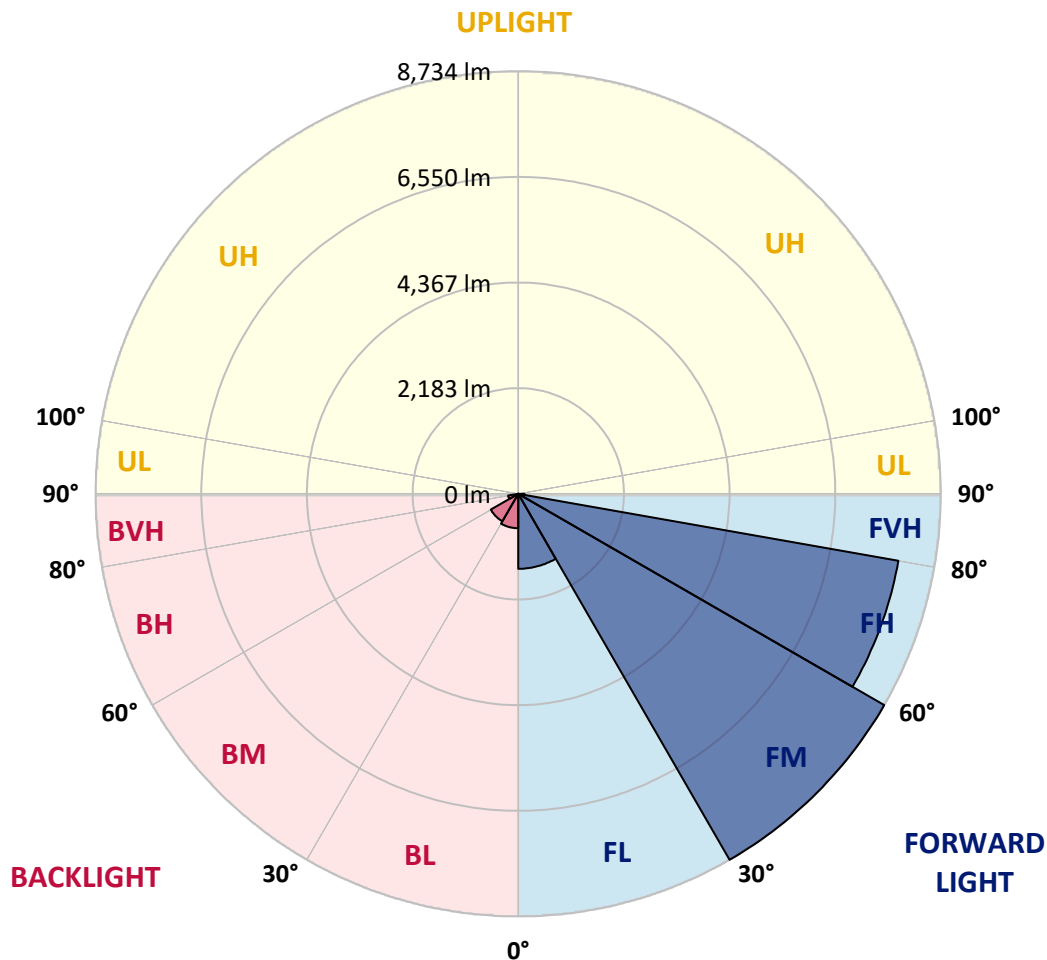


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1549.3	7.8			
FM (30°-60°)	8733.7	43.7			
FH (60°-80°)	7976.2	39.9			G4/12000
FVH (80°-90°)	128.5	0.6			G2/225
BL (0°-30°)	711.6	3.6	B2/1000		
BM (30°-60°)	655.5	3.3	B1/1000		
BH (60°-80°)	211.8	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0
2.5°	3738.0	3742.5	3758.7	3765.9	3782.9	3811.6	3826.0	3826.8	3850.1	3859.1	3866.3
5°	3473.6	3500.5	3527.3	3556.0	3608.1	3677.1	3745.2	3751.5	3826.8	3882.4	3912.0
7.5°	3245.8	3270.0	3302.2	3348.0	3421.6	3530.0	3643.9	3657.3	3799.9	3926.4	3992.7
10°	3011.8	3031.5	3078.1	3145.4	3246.7	3392.0	3545.3	3567.7	3775.7	3985.5	4102.1
12.5°	2761.7	2773.3	2829.8	2926.6	3075.4	3260.1	3461.9	3491.4	3760.5	4053.6	4231.2
15°	2571.5	2576.9	2630.7	2731.1	2901.5	3141.8	3397.4	3433.2	3764.0	4135.2	4371.9
17.5°	2523.1	2525.8	2554.5	2623.5	2774.1	3036.0	3346.2	3390.2	3774.8	4215.1	4513.6
20°	2719.5	2700.6	2671.0	2660.3	2724.9	2972.3	3315.8	3365.0	3789.2	4285.9	4641.0
22.5°	3258.4	3202.8	3079.9	2915.8	2816.3	2976.9	3323.8	3373.1	3834.9	4372.9	4788.0
25°	4058.2	3981.1	3772.1	3449.3	3139.1	3106.0	3391.0	3441.2	3923.7	4476.8	4928.8
27.5°	4968.2	4892.0	4636.5	4175.6	3646.6	3361.5	3545.3	3591.9	4055.5	4569.2	5036.4
30°	5839.8	5818.3	5517.0	4993.4	4285.0	3775.7	3744.4	3783.8	4153.2	4624.9	5121.6
32.5°	6578.6	6544.5	6302.4	5793.1	5015.7	4273.4	3978.4	3990.0	4226.7	4696.6	5232.7
35°	7263.6	7221.5	7009.0	6527.4	5765.3	4881.2	4338.8	4321.7	4387.2	4840.9	5394.1
37.5°	7861.6	7900.2	7664.4	7206.2	6437.8	5513.4	4824.8	4773.6	4638.3	5075.8	5628.1
40°	8361.9	8361.9	8239.2	7857.1	7164.1	6167.0	5374.4	5307.1	5015.7	5438.1	5924.9
42.5°	8542.2	8580.8	8626.5	8410.4	7814.1	6846.7	5986.8	5916.8	5547.5	5951.8	6299.7
45°	8552.9	8613.9	8847.9	8847.1	8401.4	7521.9	6677.2	6644.0	6228.9	6611.8	6764.2
47.5°	8401.4	8477.6	8863.2	9081.9	8866.7	8150.4	7432.2	7390.9	7029.6	7420.5	7250.1
50°	8167.4	8251.6	8700.0	9174.3	9183.3	8697.3	8227.5	8165.6	7911.0	8344.9	7752.2
52.5°	7748.7	7911.8	8553.8	9195.9	9391.3	9169.9	8984.2	8957.3	8897.3	9235.3	8152.2
55°	6852.9	7034.0	8187.1	9203.0	9584.0	9588.6	9693.5	9700.7	9821.7	10067.3	8449.9
57.5°	6429.7	6531.9	7546.9	9237.0	9870.1	10063.8	10416.2	10471.7	10659.1	10857.3	8789.7
60°	6163.4	6284.5	7231.3	9190.5	10319.3	10686.9	11086.0	11104.8	11305.6	11672.3	9249.6
62.5°	5950.9	6070.2	7032.3	9011.1	10824.1	11436.5	11740.5	11742.3	11892.9	12643.3	9772.4
65°	5426.5	5526.9	6629.6	8809.4	11157.7	12178.0	12500.8	12489.2	12612.0	13667.3	10379.4
67.5°	4667.9	4744.9	5807.5	8044.6	11032.1	12852.3	13648.5	13609.9	13461.1	14552.3	10617.9
70°	3608.9	3636.8	4577.3	6704.1	9855.8	13111.4	14757.7	14737.9	13982.1	14393.6	9743.7
71°	2983.1	3074.6	4034.0	5916.8	9067.6	12872.0	14865.3	14876.9	13851.2	13961.4	9142.0
72.5°	1732.3	1810.3	2923.9	4544.1	7698.5	11873.1	14307.5	14391.9	13239.6	12699.0	7808.8
75°	371.2	397.2	1084.0	2199.5	4234.8	8321.6	11293.1	11593.4	10791.0	8639.0	4706.5
77.5°	258.2	278.8	464.5	998.0	1399.7	4111.9	7015.2	7354.2	6446.8	3246.7	1506.3
80°	204.5	227.8	362.3	493.2	378.4	1326.2	3286.1	3493.3	2150.1	724.5	253.8
82.5°	113.8	135.4	282.4	266.3	145.2	252.0	919.9	1040.1	430.4	146.2	60.1
85°	33.2	40.3	182.0	193.7	61.9	48.4	156.9	194.6	81.6	38.6	26.9
87.5°	0.0	0.0	87.8	74.4	18.0	7.2	14.3	16.1	16.1	16.1	18.0
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°	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0	3851.0
2.5°	3866.3	3872.5	3850.1	3820.6	3789.2	3750.6	3710.3	3678.9	3677.9	3662.8	3647.5
5°	3913.8	3910.2	3848.3	3754.2	3643.0	3527.3	3417.1	3292.5	3251.2	3200.1	3183.0
7.5°	4001.6	3976.6	3845.6	3639.5	3395.6	3153.5	2903.3	2651.4	2543.8	2446.9	2429.8
10°	4111.9	4064.4	3828.6	3467.3	3019.9	2573.3	2195.8	1853.3	1702.7	1587.1	1581.7
12.5°	4226.7	4154.1	3781.1	3207.2	2527.6	1900.0	1465.1	1127.9	1002.4	921.8	928.9
15°	4346.9	4238.4	3678.9	2856.7	1967.2	1289.4	900.2	702.1	651.8	631.2	636.6
17.5°	4469.7	4296.7	3536.3	2434.3	1414.0	832.1	623.1	567.6	567.6	572.1	573.8
20°	4576.4	4328.1	3326.5	1960.9	958.5	606.2	545.1	537.0	541.6	548.8	549.6
22.5°	4682.2	4329.8	3053.1	1481.3	670.7	530.8	519.2	515.5	518.2	526.3	527.3
25°	4768.3	4308.3	2710.5	1053.6	535.3	500.3	494.9	493.2	494.9	504.8	504.8
27.5°	4803.2	4230.3	2292.7	740.6	479.7	466.2	464.5	466.2	468.9	476.1	477.0
30°	4806.9	4094.1	1837.2	536.2	434.8	420.5	424.1	430.4	427.7	425.9	427.7
32.5°	4815.8	3936.2	1393.4	441.2	397.2	374.8	370.3	370.3	359.6	353.2	349.7
35°	4845.4	3750.6	1010.5	396.3	358.6	332.7	315.6	295.9	275.3	264.5	261.9
37.5°	4892.0	3556.0	723.6	366.8	324.6	295.0	262.7	227.8	198.1	190.1	190.1
40°	4977.2	3355.2	535.3	343.4	297.7	260.9	212.5	166.7	139.9	135.4	135.4
42.5°	5111.7	3143.6	426.8	322.8	274.3	226.0	162.3	121.0	101.4	98.7	97.7
45°	5251.6	2910.4	373.0	303.0	249.3	185.6	120.2	89.7	78.0	75.4	75.4
47.5°	5391.4	2662.1	347.0	284.2	225.1	144.4	89.7	70.8	65.5	65.5	66.3
50°	5509.8	2402.9	328.2	263.6	193.7	109.4	70.8	60.1	58.3	61.9	62.8
52.5°	5539.4	2148.3	304.9	237.6	155.1	83.4	58.3	52.9	52.9	52.9	52.9
55°	5521.5	1951.0	274.3	205.3	114.8	66.3	50.2	46.7	45.7	45.7	45.7
57.5°	5582.4	1834.5	219.7	159.6	82.5	53.8	44.0	41.3	39.5	38.6	38.6
60°	5705.3	1758.3	156.9	114.8	61.9	44.8	37.6	34.9	32.3	30.5	30.5
62.5°	5868.5	1692.0	116.5	85.1	47.5	35.9	31.4	28.7	25.2	23.3	23.3
65°	5993.9	1573.6	88.8	63.6	35.9	28.7	24.2	23.3	18.0	16.1	15.3
67.5°	5802.1	1313.6	71.7	46.7	26.9	22.5	18.8	18.0	10.8	8.9	8.9
70°	4976.3	914.6	57.4	34.1	19.7	18.0	15.3	11.6	8.1	7.2	7.2
71°	4512.7	764.0	52.0	28.7	17.0	17.0	14.3	9.9	7.2	6.2	6.2
72.5°	3748.8	542.4	44.0	22.5	15.3	18.0	15.3	8.9	7.2	6.2	5.4
75°	2176.1	226.8	30.5	15.3	11.6	21.5	19.7	8.1	5.4	4.5	4.5
77.5°	654.5	83.4	17.0	9.9	8.9	18.8	22.5	7.2	2.7	0.9	0.9
80°	119.2	35.9	10.8	6.2	6.2	11.6	17.0	3.6	0.0	0.0	0.0
82.5°	42.1	18.0	6.2	3.6	2.7	5.4	8.1	0.0	0.0	0.0	0.0
85°	24.2	12.6	3.6	1.8	0.0	0.9	1.8	0.0	0.0	0.0	0.0
87.5°	16.1	3.6	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)