

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: P319488

Luminaire Tested: **GLEON-SA4C-827-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319488  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4C-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20547 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

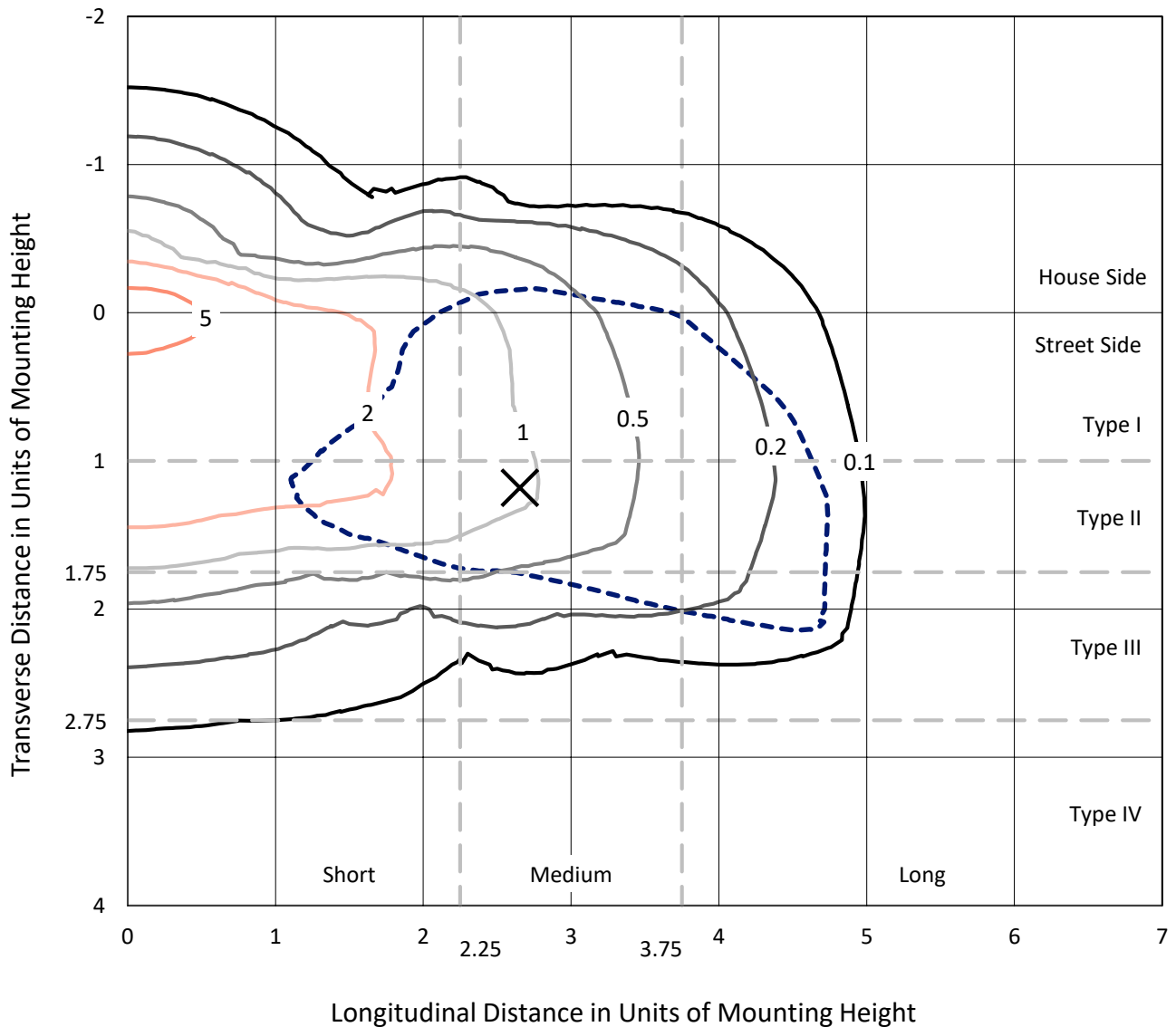
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

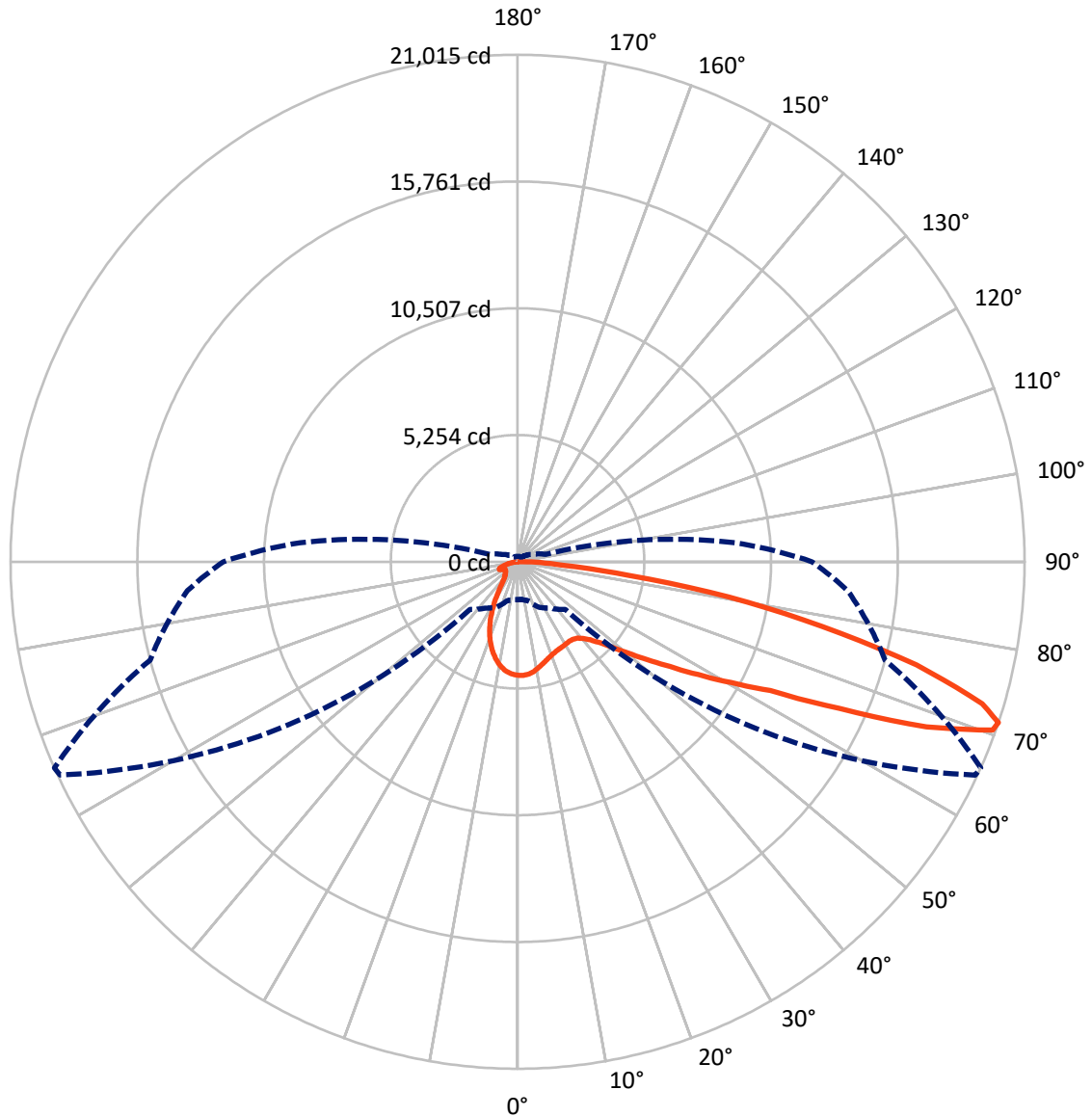
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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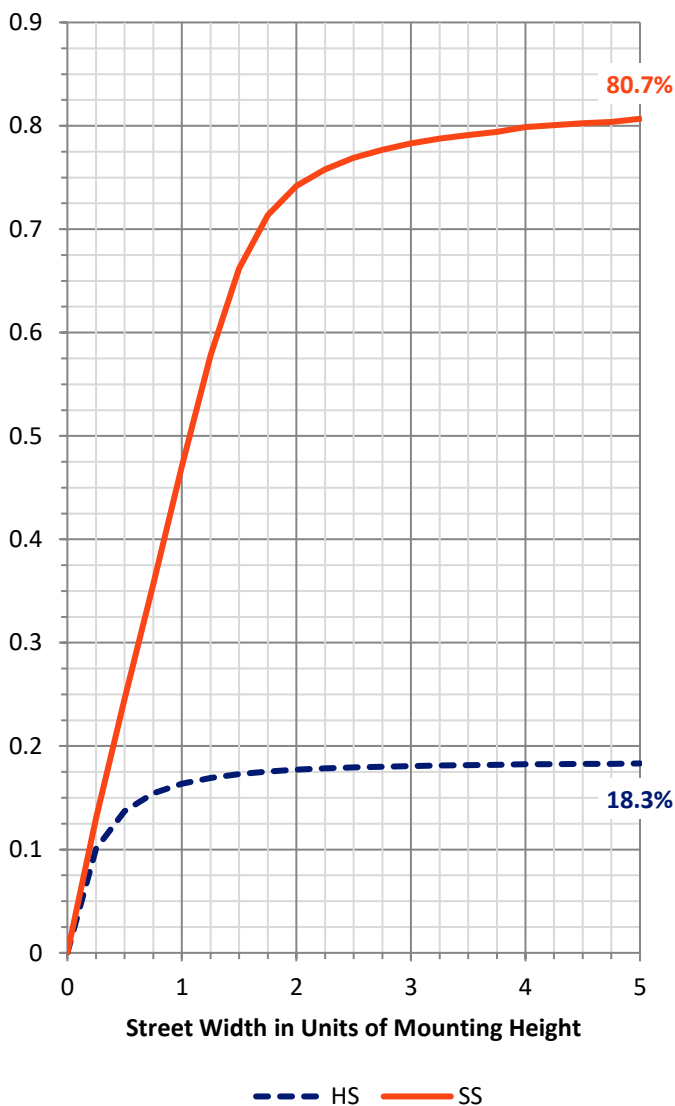
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3807.9	0.0	3807.9
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	16739.1	0.0	16739.1
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	20547.0	0.0	20547.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.3	2.0
10°-20°	993.7	4.8
20°-30°	1334.8	6.5
30°-40°	1755.9	8.5
40°-50°	2554.4	12.4
50°-60°	3990.3	19.4
60°-70°	4998.5	24.3
70°-80°	3812.7	18.6
80°-90°	692.3	3.4
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°	20547.0	100.0
0°-180°	20547.0	100.0

**Coefficient of Utilization**

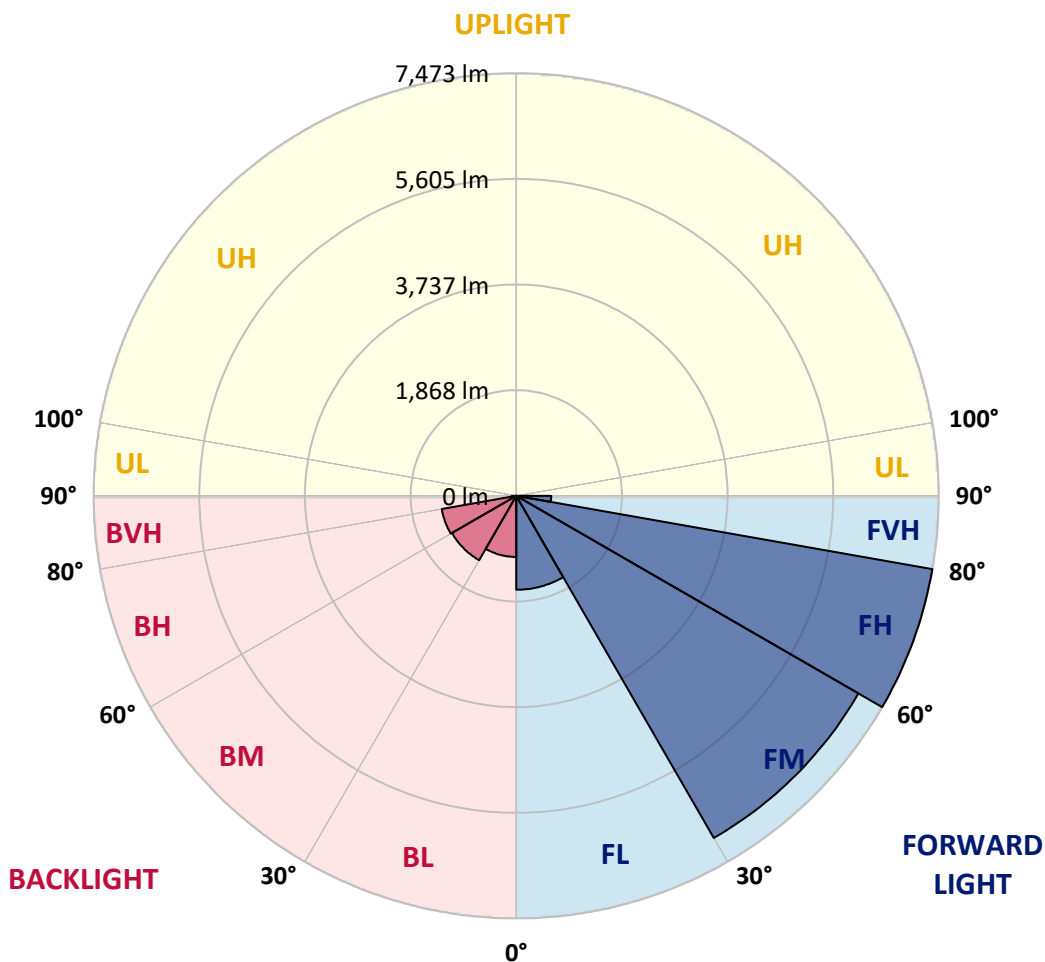


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.5	8.1			
FM (30°-60°)	6987.0	34.0			
FH (60°-80°)	7473.2	36.4			G3/7500
FVH (80°-90°)	617.4	3.0			G4/750
BL (0°-30°)	1081.3	5.3	B3/2500		
BM (30°-60°)	1313.6	6.4	B2/2500		
BH (60°-80°)	1338.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	74.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9
2.5°	4619.7	4612.6	4633.9	4655.8	4664.4	4678.5	4699.8	4711.9	4711.2	4713.3	4706.2
5°	4313.2	4304.0	4346.5	4381.3	4448.0	4523.2	4614.7	4680.0	4681.4	4718.3	4728.2
7.5°	4023.1	4016.7	4065.6	4121.7	4199.0	4313.9	4462.2	4602.6	4611.1	4711.2	4745.9
10°	3790.4	3788.9	3836.5	3897.5	3987.6	4116.0	4286.2	4492.0	4504.7	4677.1	4748.8
12.5°	3608.8	3611.6	3652.7	3722.3	3817.3	3951.4	4135.8	4367.8	4388.4	4623.2	4732.5
15°	3474.7	3486.0	3519.4	3589.6	3683.2	3819.5	4008.9	4252.9	4284.1	4562.9	4723.2
17.5°	3398.1	3410.8	3434.2	3492.4	3580.4	3711.6	3891.1	4158.5	4186.9	4516.8	4723.9
20°	3375.4	3386.0	3399.5	3435.0	3509.4	3628.6	3798.2	4073.4	4103.9	4479.9	4731.0
22.5°	3420.1	3427.9	3429.3	3426.4	3471.8	3569.0	3730.8	4011.0	4043.6	4455.8	4736.0
25°	3515.8	3526.5	3518.7	3492.4	3477.5	3537.1	3696.0	3969.8	4002.5	4438.1	4726.1
27.5°	3659.8	3661.3	3654.9	3620.8	3550.6	3540.7	3685.4	3945.7	3976.9	4417.5	4705.5
30°	3855.6	3864.9	3853.5	3807.4	3692.5	3597.4	3698.1	3922.3	3950.7	4391.2	4672.2
32.5°	4084.8	4107.5	4106.8	4058.5	3893.9	3724.4	3750.6	3908.1	3930.1	4363.6	4631.7
35°	4322.4	4353.6	4411.8	4391.2	4187.6	3925.2	3851.4	3930.8	3945.7	4360.0	4603.3
37.5°	4569.3	4600.5	4720.4	4775.7	4537.4	4212.5	4010.3	4011.0	4018.1	4403.3	4601.2
40°	4827.5	4860.9	5041.1	5185.1	4990.7	4576.4	4266.4	4178.4	4170.6	4509.7	4643.1
42.5°	5189.3	5219.1	5435.5	5619.2	5493.7	5042.5	4620.4	4436.6	4420.3	4718.3	4777.2
45°	5646.9	5672.4	5902.3	6098.8	6034.2	5574.5	5065.2	4792.0	4789.2	5065.9	5048.9
47.5°	6191.0	6210.9	6417.3	6607.4	6630.8	6186.7	5624.2	5340.4	5294.3	5542.6	5469.5
50°	6757.8	6779.8	6920.3	7124.6	7298.4	7006.1	6343.5	6012.2	5950.5	6171.8	6065.4
52.5°	7133.1	7162.2	7284.2	7543.1	8048.9	7904.2	7194.1	6826.6	6733.0	6934.5	6852.9
55°	6965.7	7030.9	7217.5	7632.5	8649.1	9276.2	8243.3	7776.5	7670.8	7838.2	7790.0
57.5°	6204.5	6293.9	6548.5	7189.1	8733.5	10485.0	9829.6	8895.3	8820.8	8772.5	8794.5
60°	4813.3	4899.2	5214.9	6049.8	8145.4	11367.5	12216.7	10274.4	10166.5	9710.4	9730.2
62.5°	3406.6	3363.3	3579.7	4190.5	6618.8	11471.1	14933.0	12118.8	11764.1	10700.7	10613.4
65°	2597.9	2587.9	2685.1	2879.5	4008.9	10231.8	16551.2	15218.9	14664.9	11865.6	11659.8
67.5°	2134.6	2116.9	2212.6	2495.7	2581.5	6601.0	16586.7	18815.6	18271.5	13315.6	12870.1
70°	1755.1	1735.2	1824.6	2189.9	2385.7	3347.7	13959.7	20921.9	20892.8	15151.5	13783.8
71°	1573.5	1559.3	1666.4	2072.2	2343.9	2790.1	12052.8	20927.5	21014.8	15773.0	13729.9
72.5°	1281.2	1286.2	1399.7	1844.5	2312.7	2463.8	8858.4	19952.1	20136.5	16365.3	13239.7
75°	851.3	855.5	1004.5	1418.8	2242.4	2410.6	4868.7	16742.0	17081.1	16010.6	12081.2
77.5°	571.8	570.4	671.8	973.3	1953.7	2410.6	2854.7	12521.8	12894.2	12739.5	9313.8
80°	393.7	390.9	462.5	671.8	1479.1	2439.7	2207.0	8775.4	8888.2	6879.8	3785.4
82.5°	241.2	243.3	302.2	474.6	1006.6	2195.6	2083.5	4785.0	4662.2	1929.6	945.6
85°	138.3	137.6	193.0	321.4	646.3	1853.0	2031.7	2059.4	1889.2	581.0	341.9
87.5°	49.7	53.2	103.6	178.1	370.3	1290.4	1723.9	1071.2	965.5	262.5	154.7
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°	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9	4706.9
2.5°	4701.2	4705.5	4700.5	4672.2	4648.0	4609.0	4587.0	4556.5	4547.3	4543.0	4554.4
5°	4719.0	4720.4	4678.5	4604.1	4520.3	4421.7	4350.8	4263.5	4222.4	4204.7	4216.0
7.5°	4735.3	4728.9	4637.4	4494.8	4340.2	4168.5	4016.0	3876.2	3794.6	3761.3	3764.1
10°	4737.4	4710.5	4563.6	4343.0	4103.2	3851.4	3617.3	3401.6	3265.4	3176.7	3203.7
12.5°	4715.4	4670.0	4455.1	4146.5	3813.8	3470.4	3154.0	2830.5	2636.2	2546.1	2548.9
15°	4698.4	4616.1	4321.7	3915.2	3468.3	3013.6	2581.5	2201.3	1994.1	1901.9	1858.6
17.5°	4684.2	4557.9	4167.1	3654.9	3060.4	2483.6	1964.3	1625.3	1511.7	1484.8	1473.4
20°	4664.4	4496.2	3994.7	3353.4	2595.7	1890.6	1434.4	1267.0	1267.7	1298.9	1303.2
22.5°	4636.7	4426.0	3810.9	3015.0	2097.0	1377.0	1124.4	1076.2	1125.1	1184.7	1195.4
25°	4595.5	4343.0	3606.6	2641.1	1599.0	1058.4	960.5	958.4	1018.0	1080.4	1089.7
27.5°	4537.4	4234.5	3379.6	2239.6	1178.3	899.5	860.5	875.4	919.4	964.8	968.3
30°	4459.3	4108.2	3129.2	1816.1	923.6	800.9	796.7	810.1	837.1	869.0	871.9
32.5°	4373.5	3979.8	2861.8	1406.0	791.0	747.7	752.0	758.4	771.1	783.9	786.7
35°	4295.5	3848.5	2587.9	1068.4	727.9	713.0	710.1	708.7	710.1	705.9	706.6
37.5°	4245.1	3740.0	2302.7	850.6	691.7	682.5	673.9	663.3	651.2	644.1	645.6
40°	4226.7	3659.1	2014.0	734.9	661.9	655.5	639.2	616.5	602.3	598.0	598.0
42.5°	4276.3	3617.3	1735.2	676.8	637.0	626.4	599.4	573.2	562.6	561.9	561.1
45°	4428.1	3634.3	1469.9	644.9	614.3	593.8	558.3	536.3	529.2	530.6	529.9
47.5°	4700.5	3741.4	1242.9	623.6	591.6	564.7	525.0	507.2	498.7	498.7	499.4
50°	5163.8	3991.8	1062.0	605.8	572.5	537.7	500.8	478.9	467.5	466.8	466.8
52.5°	5838.4	4440.2	949.2	590.9	551.2	513.6	476.7	449.1	435.6	432.7	431.3
55°	6684.0	5082.9	918.0	581.0	522.8	487.4	447.6	420.0	405.1	398.7	398.0
57.5°	7629.7	5864.7	979.7	568.9	493.7	456.1	415.7	389.5	373.9	366.1	365.3
60°	8586.7	6718.1	1231.5	551.9	469.6	422.1	383.1	359.0	343.4	334.8	333.4
62.5°	9545.1	7617.6	1745.9	550.5	452.6	389.5	349.7	329.2	314.3	305.0	302.9
65°	10626.2	8602.3	2330.4	588.1	446.9	359.7	315.7	299.4	286.6	278.1	277.4
67.5°	11867.7	9713.9	2274.4	665.4	466.1	332.7	283.8	271.0	261.8	254.7	254.0
70°	12450.1	9540.1	1413.8	720.0	493.0	306.5	253.3	244.0	236.9	232.0	229.8
71°	12206.1	9058.4	1185.4	713.7	490.2	295.1	241.2	234.1	227.0	222.8	220.6
72.5°	11540.6	8261.1	988.9	664.0	458.3	274.5	225.6	218.5	212.1	207.1	205.7
75°	10355.9	7377.8	791.7	530.6	365.3	232.0	197.9	190.1	185.2	182.3	179.5
77.5°	7612.7	5265.2	612.2	419.3	268.9	189.4	168.8	163.2	158.2	153.9	151.8
80°	2916.4	2039.5	412.2	312.8	197.2	149.7	136.2	133.4	128.4	125.6	125.6
82.5°	785.3	609.4	219.9	189.4	131.9	109.2	104.3	102.9	98.6	92.9	93.6
85°	317.8	268.9	123.4	104.3	80.9	64.6	70.2	70.9	66.0	58.9	59.6
87.5°	139.8	114.2	68.8	46.1	35.5	24.8	31.9	31.9	29.1	24.1	22.0
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)