

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: P319478

Luminaire Tested: **GLEON-SA4B-827-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319478  
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-SA4B-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA 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: 16601 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

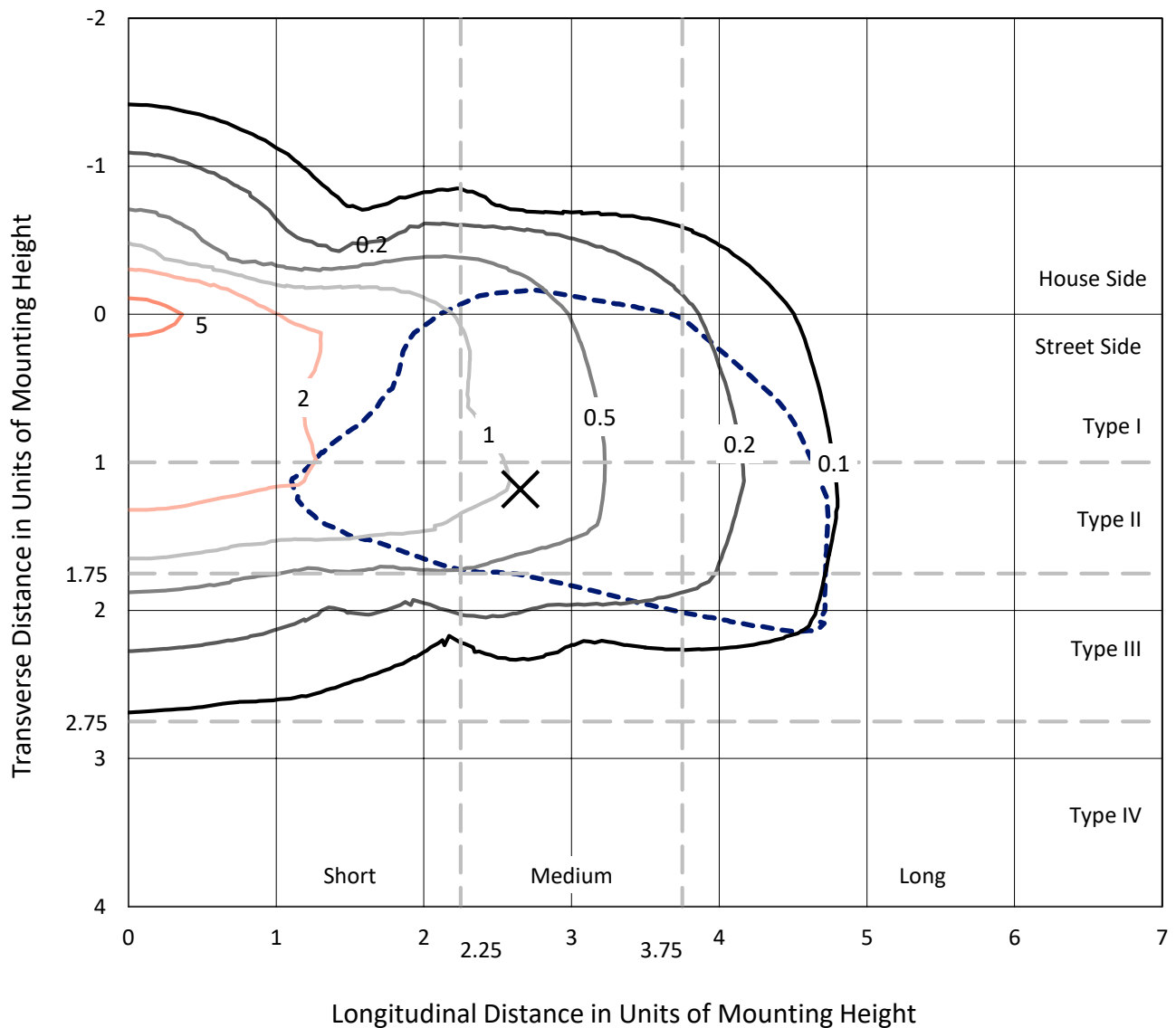
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

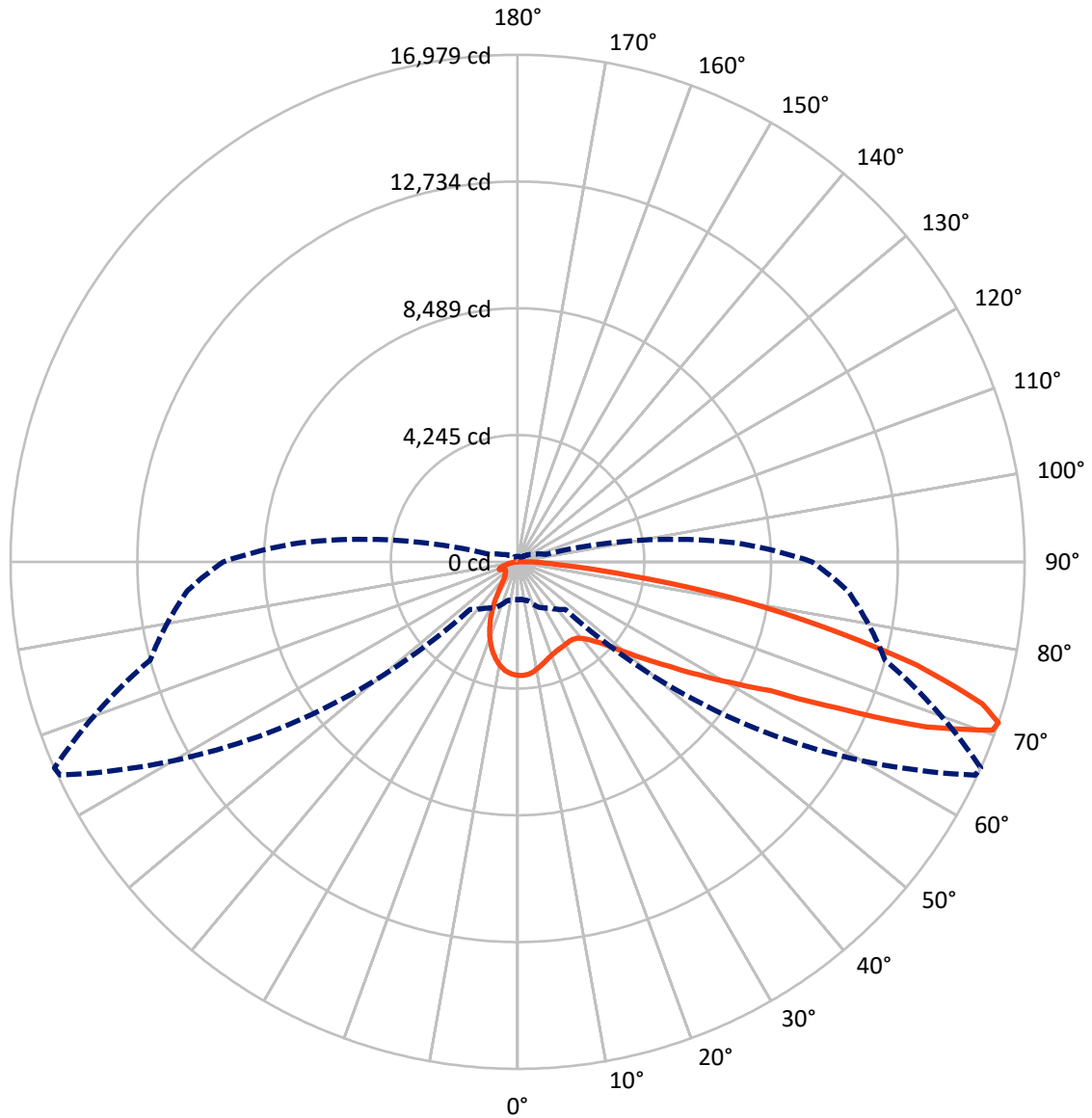
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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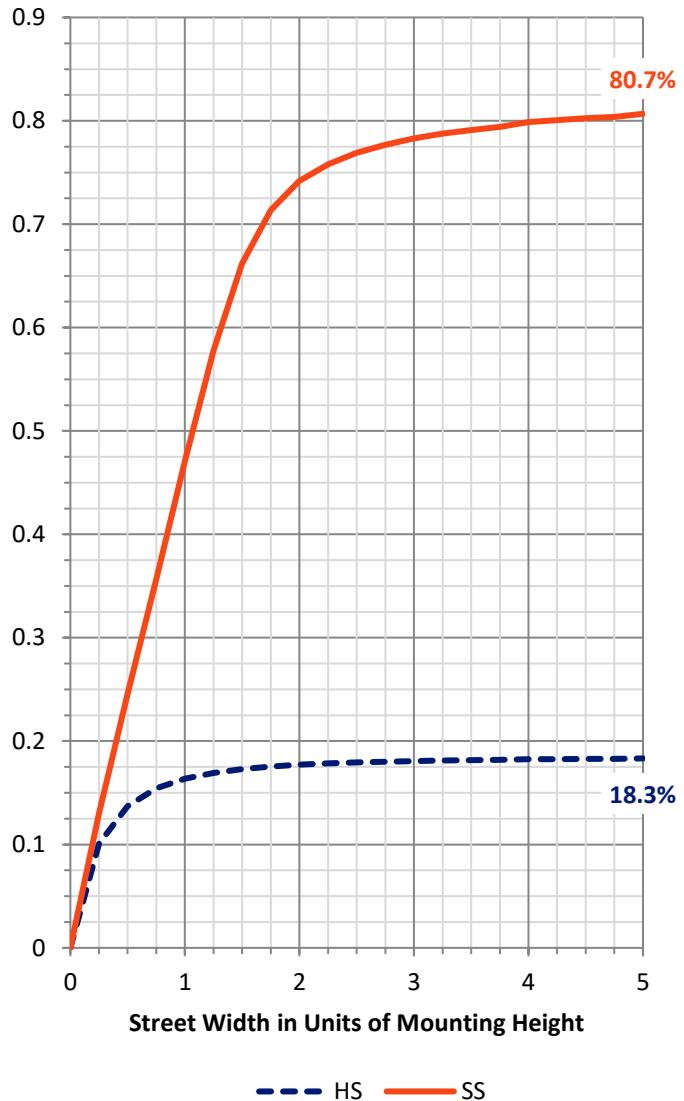
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3076.6	0.0	3076.6
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	13524.4	0.0	13524.4
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	16601.0	0.0	16601.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.7	2.0
10°-20°	802.9	4.8
20°-30°	1078.5	6.5
30°-40°	1418.7	8.5
40°-50°	2063.8	12.4
50°-60°	3224.0	19.4
60°-70°	4038.5	24.3
70°-80°	3080.5	18.6
80°-90°	559.4	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°	16601.0	100.0
0°-180°	16601.0	100.0

**Coefficient of Utilization**

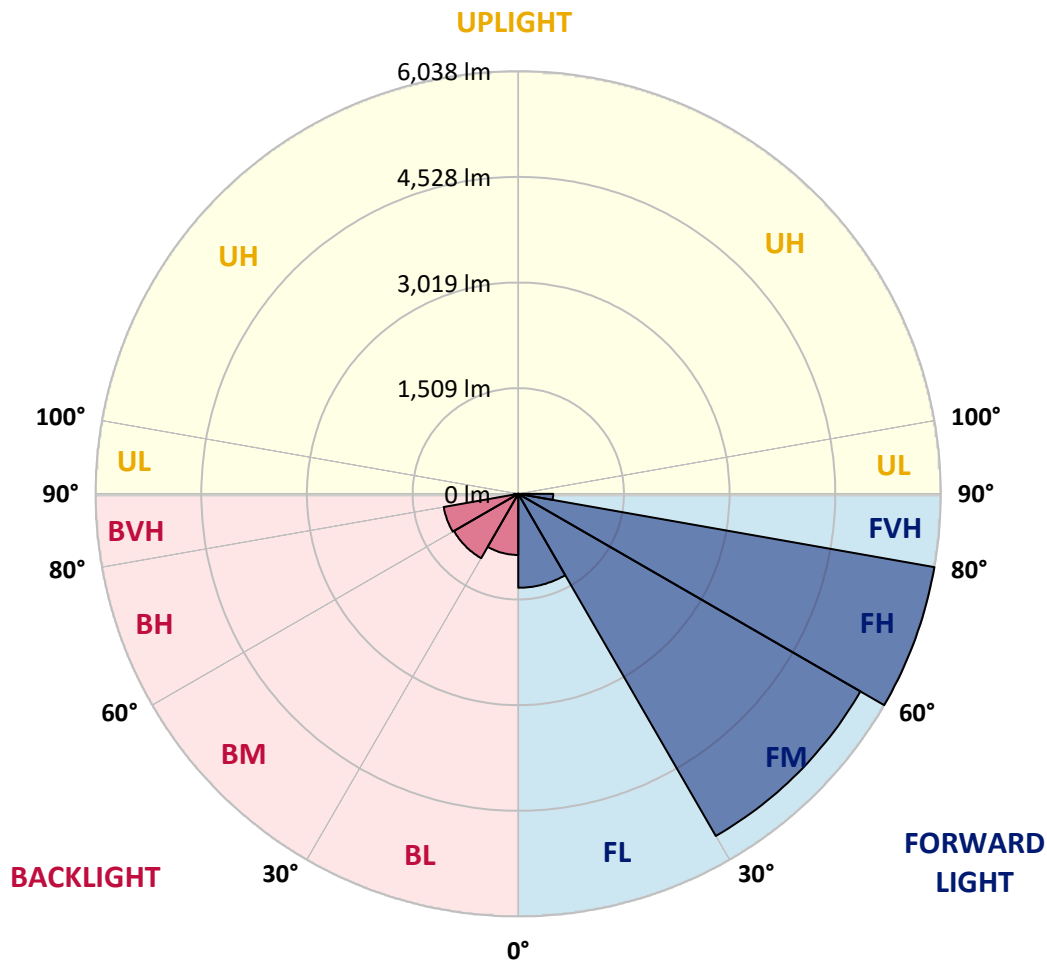


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.4	8.1			
FM (30°-60°)	5645.2	34.0			
FH (60°-80°)	6038.0	36.4			G3/7500
FVH (80°-90°)	498.8	3.0			G3/500
BL (0°-30°)	873.7	5.3	B2/1000		
BM (30°-60°)	1061.3	6.4	B2/2500		
BH (60°-80°)	1081.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	60.6	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-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0
2.5°	3732.5	3726.7	3743.9	3761.7	3768.6	3780.0	3797.2	3807.0	3806.4	3808.1	3802.4
5°	3484.9	3477.4	3511.8	3539.9	3593.8	3654.5	3728.5	3781.2	3782.3	3812.1	3820.2
7.5°	3250.4	3245.3	3284.8	3330.1	3392.6	3485.4	3605.2	3718.7	3725.6	3806.4	3834.5
10°	3062.4	3061.3	3099.7	3149.0	3221.8	3325.5	3463.1	3629.3	3639.6	3778.9	3836.8
12.5°	2915.7	2918.0	2951.2	3007.4	3084.2	3192.5	3341.6	3529.0	3545.6	3735.3	3823.6
15°	2807.4	2816.5	2843.5	2900.2	2975.9	3085.9	3239.0	3436.1	3461.4	3686.6	3816.2
17.5°	2745.5	2755.8	2774.7	2821.7	2892.8	2998.8	3143.8	3359.9	3382.8	3649.4	3816.7
20°	2727.1	2735.7	2746.6	2775.3	2835.5	2931.8	3068.7	3291.1	3315.8	3619.6	3822.5
22.5°	2763.2	2769.5	2770.7	2768.4	2805.1	2883.6	3014.3	3240.7	3267.1	3600.1	3826.5
25°	2840.6	2849.2	2842.9	2821.7	2809.7	2857.8	2986.2	3207.4	3233.8	3585.7	3818.4
27.5°	2957.0	2958.1	2953.0	2925.4	2868.7	2860.7	2977.6	3188.0	3213.2	3569.1	3801.8
30°	3115.2	3122.6	3113.4	3076.2	2983.3	2906.5	2987.9	3169.0	3192.0	3547.9	3774.9
32.5°	3300.3	3318.6	3318.1	3279.1	3146.1	3009.1	3030.3	3157.6	3175.3	3525.6	3742.2
35°	3492.3	3517.5	3564.5	3547.9	3383.4	3171.3	3111.7	3175.9	3188.0	3522.7	3719.3
37.5°	3691.8	3717.0	3813.9	3858.6	3666.0	3403.5	3240.1	3240.7	3246.4	3557.7	3717.6
40°	3900.4	3927.3	4072.9	4189.3	4032.2	3697.5	3447.0	3376.0	3369.7	3643.6	3751.4
42.5°	4192.7	4216.8	4391.6	4540.1	4438.6	4074.1	3733.0	3584.6	3571.4	3812.1	3859.7
45°	4562.4	4583.0	4768.8	4927.5	4875.4	4504.0	4092.4	3871.7	3869.5	4093.0	4079.2
47.5°	5002.0	5018.1	5184.9	5338.5	5357.4	4998.6	4544.1	4314.8	4277.6	4478.2	4419.1
50°	5460.0	5477.8	5591.3	5756.3	5896.7	5660.6	5125.3	4857.6	4807.7	4986.6	4900.6
52.5°	5763.2	5786.7	5885.3	6094.5	6503.2	6386.2	5812.5	5515.6	5439.9	5602.7	5536.8
55°	5627.9	5680.7	5831.4	6166.7	6988.1	7494.7	6660.2	6283.1	6197.7	6332.9	6294.0
57.5°	5012.9	5085.1	5290.9	5808.5	7056.3	8471.4	7941.8	7186.9	7126.8	7087.8	7105.6
60°	3888.9	3958.3	4213.4	4888.0	6581.1	9184.4	9870.5	8301.2	8214.1	7845.5	7861.6
62.5°	2752.4	2717.4	2892.2	3385.7	5347.7	9268.1	12065.2	9791.4	9504.8	8645.7	8575.2
65°	2098.9	2090.9	2169.4	2326.5	3239.0	8266.8	13372.6	12296.2	11848.5	9586.8	9420.6
67.5°	1724.7	1710.3	1787.7	2016.4	2085.8	5333.3	13401.2	15202.1	14762.5	10758.4	10398.4
70°	1418.0	1402.0	1474.2	1769.4	1927.6	2704.8	11278.8	16903.9	16880.4	12241.7	11136.6
71°	1271.3	1259.8	1346.4	1674.2	1893.7	2254.3	9738.1	16908.4	16978.9	12743.8	11093.1
72.5°	1035.1	1039.2	1130.9	1490.2	1868.5	1990.6	7157.1	16120.3	16269.4	13222.4	10697.0
75°	687.8	691.2	811.6	1146.3	1811.8	1947.6	3933.6	13526.8	13800.7	12935.8	9761.0
77.5°	462.0	460.8	542.8	786.4	1578.5	1947.6	2306.4	10117.0	10417.9	10292.9	7525.1
80°	318.1	315.8	373.7	542.8	1195.1	1971.1	1783.1	7090.1	7181.2	5558.6	3058.4
82.5°	194.9	196.6	244.2	383.4	813.3	1774.0	1683.4	3866.0	3766.9	1559.0	764.0
85°	111.8	111.2	155.9	259.6	522.2	1497.1	1641.6	1663.9	1526.3	469.4	276.3
87.5°	40.1	43.0	83.7	143.9	299.2	1042.6	1392.8	865.5	780.1	212.1	125.0
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°	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0	3803.0
2.5°	3798.4	3801.8	3797.8	3774.9	3755.4	3723.9	3706.1	3681.5	3674.0	3670.6	3679.7
5°	3812.7	3813.9	3780.0	3719.9	3652.2	3572.6	3515.2	3444.7	3411.5	3397.2	3406.3
7.5°	3825.9	3820.7	3746.8	3631.6	3506.6	3367.9	3244.7	3131.8	3065.9	3038.9	3041.2
10°	3827.6	3805.8	3687.2	3508.9	3315.2	3111.7	2922.6	2748.3	2638.3	2566.6	2588.4
12.5°	3809.8	3773.2	3599.5	3350.2	3081.3	2803.9	2548.3	2286.9	2129.9	2057.1	2059.4
15°	3796.1	3729.6	3491.7	3163.3	2802.2	2434.8	2085.8	1778.5	1611.2	1536.7	1501.7
17.5°	3784.6	3682.6	3366.8	2953.0	2472.6	2006.7	1587.1	1313.1	1221.4	1199.6	1190.5
20°	3768.6	3632.7	3227.5	2709.4	2097.2	1527.5	1158.9	1023.7	1024.3	1049.5	1052.9
22.5°	3746.2	3576.0	3079.1	2436.0	1694.3	1112.5	908.5	869.5	909.0	957.2	965.8
25°	3713.0	3508.9	2914.0	2133.9	1291.9	855.2	776.1	774.3	822.5	872.9	880.4
27.5°	3666.0	3421.2	2730.6	1809.5	952.0	726.8	695.3	707.3	742.8	779.5	782.4
30°	3602.9	3319.2	2528.2	1467.3	746.3	647.1	643.7	654.6	676.3	702.1	704.4
32.5°	3533.6	3215.5	2312.2	1136.0	639.1	604.1	607.6	612.7	623.0	633.4	635.6
35°	3470.5	3109.4	2090.9	863.2	588.1	576.0	573.7	572.6	573.7	570.3	570.9
37.5°	3429.8	3021.7	1860.5	687.2	558.8	551.4	544.5	535.9	526.2	520.4	521.6
40°	3414.9	2956.4	1627.2	593.8	534.8	529.6	516.4	498.1	486.6	483.2	483.2
42.5°	3455.1	2922.6	1402.0	546.8	514.7	506.1	484.3	463.1	454.5	453.9	453.4
45°	3577.7	2936.3	1187.6	521.0	496.4	479.7	451.1	433.3	427.6	428.7	428.2
47.5°	3797.8	3022.9	1004.2	503.8	478.0	456.2	424.1	409.8	402.9	402.9	403.5
50°	4172.1	3225.2	858.0	489.5	462.5	434.5	404.7	386.9	377.7	377.1	377.1
52.5°	4717.2	3587.5	766.9	477.4	445.4	415.0	385.2	362.8	351.9	349.6	348.5
55°	5400.4	4106.7	741.7	469.4	422.4	393.8	361.7	339.3	327.3	322.1	321.5
57.5°	6164.4	4738.4	791.5	459.7	398.9	368.5	335.9	314.7	302.1	295.8	295.2
60°	6937.6	5427.9	995.0	445.9	379.4	341.0	309.5	290.0	277.4	270.5	269.4
62.5°	7712.0	6154.7	1410.6	444.8	365.7	314.7	282.6	265.9	253.9	246.5	244.7
65°	8585.5	6950.2	1882.9	475.2	361.1	290.6	255.1	241.9	231.6	224.7	224.1
67.5°	9588.5	7848.4	1837.6	537.6	376.6	268.8	229.3	219.0	211.5	205.8	205.2
70°	10059.1	7708.0	1142.3	581.8	398.4	247.6	204.6	197.2	191.4	187.4	185.7
71°	9861.9	7318.8	957.8	576.6	396.1	238.4	194.9	189.1	183.4	180.0	178.3
72.5°	9324.3	6674.5	799.0	536.5	370.3	221.8	182.3	176.5	171.4	167.4	166.2
75°	8367.1	5960.9	639.7	428.7	295.2	187.4	159.9	153.6	149.6	147.3	145.0
77.5°	6150.7	4254.1	494.6	338.7	217.2	153.0	136.4	131.8	127.8	124.4	122.7
80°	2356.3	1647.9	333.0	252.8	159.3	120.9	110.0	107.8	103.7	101.5	101.5
82.5°	634.5	492.4	177.7	153.0	106.6	88.3	84.3	83.1	79.7	75.1	75.7
85°	256.8	217.2	99.7	84.3	65.3	52.2	56.7	57.3	53.3	47.6	48.1
87.5°	112.9	92.3	55.6	37.3	28.7	20.1	25.8	25.8	23.5	19.5	17.8
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)