

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: P383165

Luminaire Tested: **GLEON-SA5A-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383165  
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-SA5A-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA 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: 21256.1 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

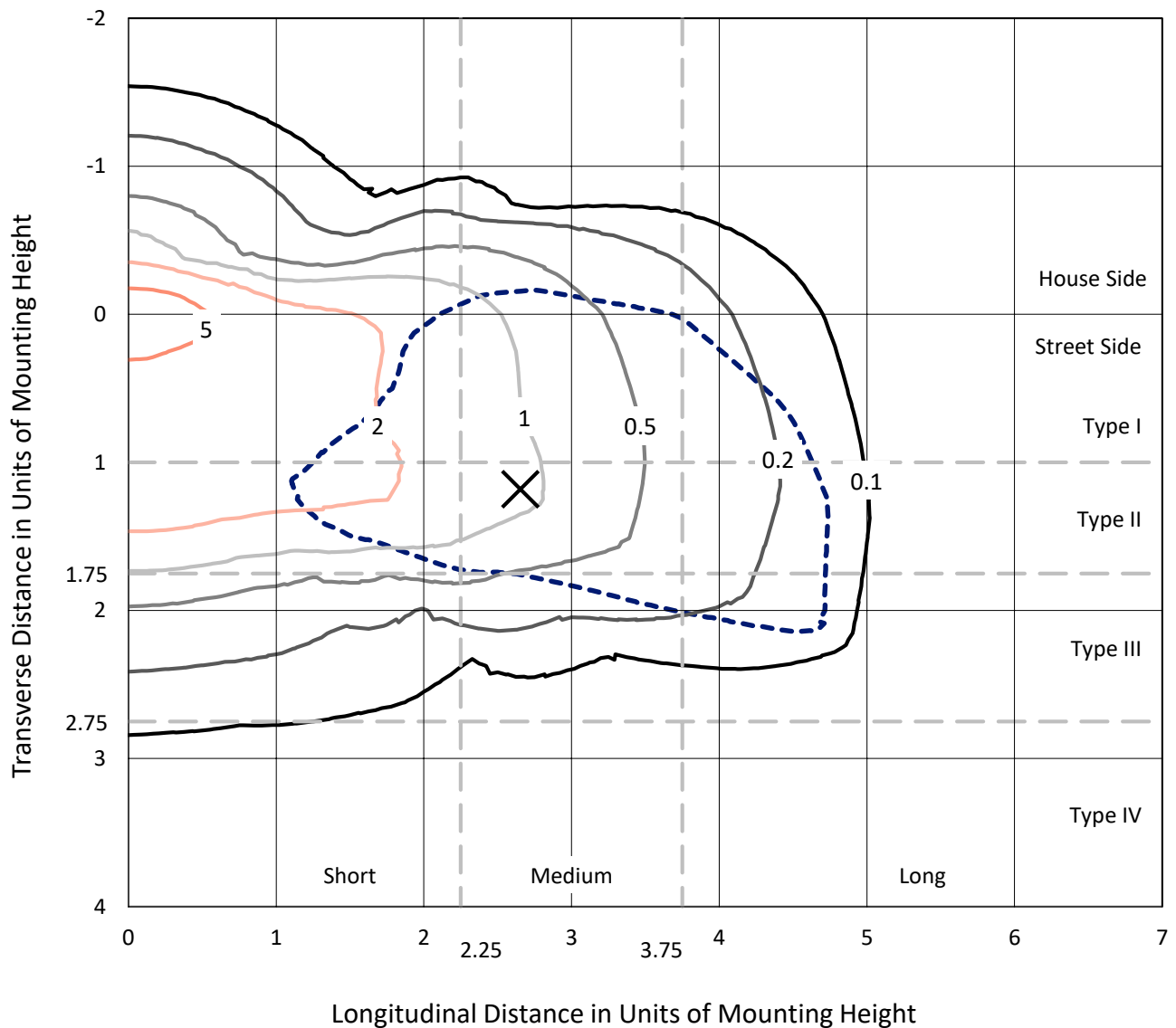
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

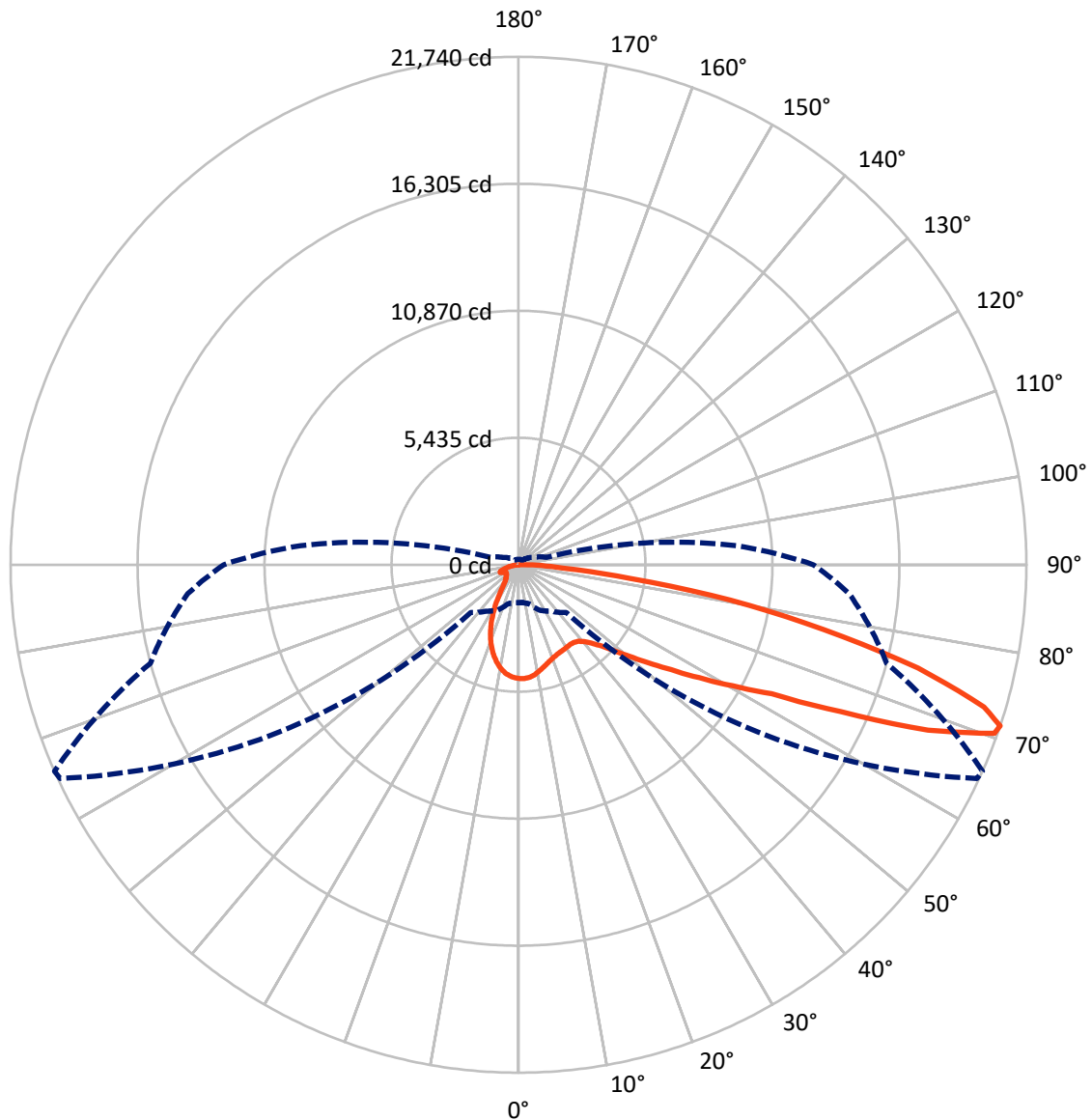
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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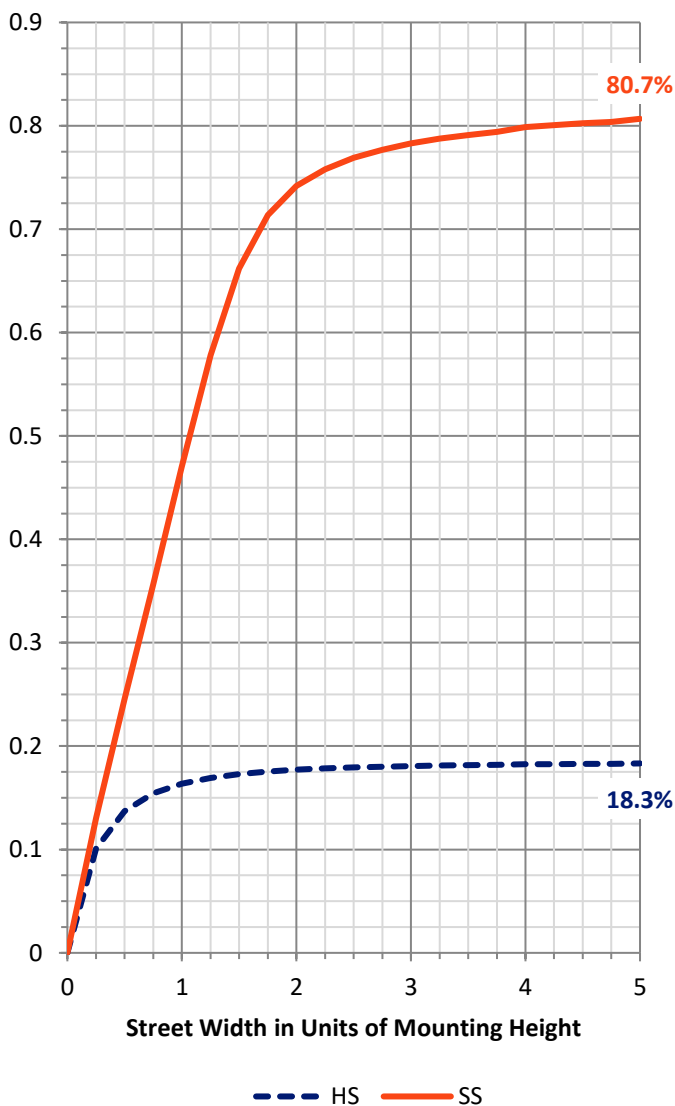
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3939.3	0.0	3939.3
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	17316.7	0.0	17316.7
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	21256.1	0.0	21256.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.6	2.0
10°-20°	1028.0	4.8
20°-30°	1380.9	6.5
30°-40°	1816.5	8.5
40°-50°	2642.6	12.4
50°-60°	4128.0	19.4
60°-70°	5170.9	24.3
70°-80°	3944.3	18.6
80°-90°	716.2	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°	21256.1	100.0
0°-180°	21256.1	100.0

**Coefficient of Utilization**

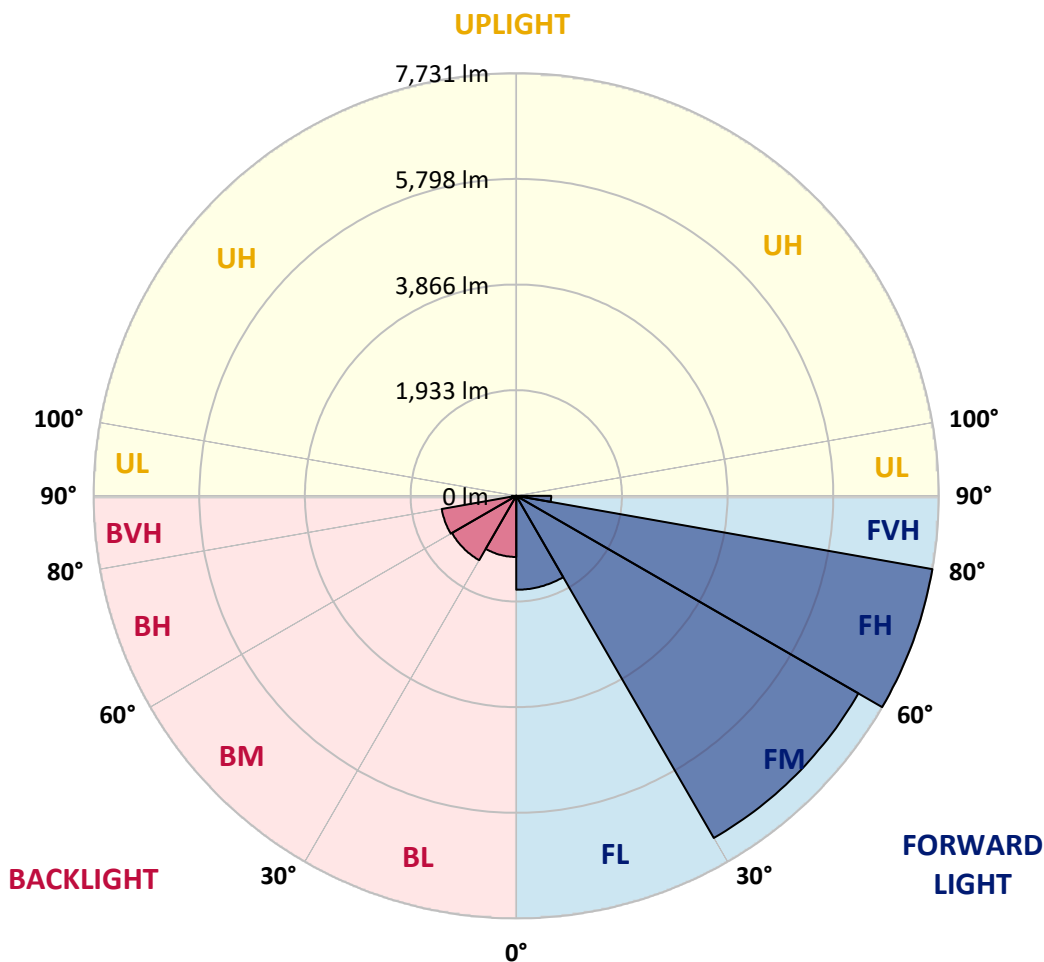


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.8	8.1			
FM (30°-60°)	7228.1	34.0			
FH (60°-80°)	7731.0	36.4			G4/12000
FVH (80°-90°)	638.7	3.0			G4/750
BL (0°-30°)	1118.7	5.3	B3/2500		
BM (30°-60°)	1358.9	6.4	B2/2500		
BH (60°-80°)	1384.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	77.5	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°	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4
2.5°	4779.1	4771.8	4793.7	4816.5	4825.3	4839.9	4862.0	4874.5	4873.8	4876.0	4868.6
5°	4462.0	4452.5	4496.6	4532.5	4601.5	4679.3	4773.9	4841.4	4842.9	4881.1	4891.4
7.5°	4161.9	4155.3	4205.9	4263.9	4343.9	4462.8	4616.2	4761.5	4770.3	4873.8	4909.7
10°	3921.2	3919.7	3968.9	4032.0	4125.2	4258.0	4434.2	4647.0	4660.2	4838.6	4912.6
12.5°	3733.3	3736.3	3778.8	3850.7	3949.0	4087.7	4278.6	4518.6	4539.8	4782.8	4895.7
15°	3594.6	3606.3	3640.9	3713.5	3810.3	3951.3	4147.2	4399.7	4431.9	4720.3	4886.2
17.5°	3515.3	3528.5	3552.7	3612.9	3703.9	3839.7	4025.4	4302.1	4331.4	4672.6	4887.0
20°	3491.8	3502.8	3516.8	3553.5	3630.5	3753.9	3929.3	4213.9	4245.5	4634.5	4894.3
22.5°	3538.1	3546.1	3547.6	3544.7	3591.7	3692.2	3859.5	4149.4	4183.2	4609.6	4899.5
25°	3637.1	3648.1	3640.1	3612.9	3597.5	3659.2	3823.5	4106.8	4140.6	4591.2	4889.1
27.5°	3786.1	3787.6	3781.0	3745.8	3673.1	3662.8	3812.5	4081.9	4114.2	4569.9	4867.9
30°	3988.7	3998.2	3986.5	3938.8	3819.9	3721.5	3825.8	4057.6	4087.0	4542.8	4833.4
32.5°	4225.7	4249.3	4248.5	4198.6	4028.3	3852.9	3880.1	4043.0	4065.7	4514.2	4791.6
35°	4471.6	4503.8	4564.0	4542.8	4332.2	4060.6	3984.3	4066.5	4081.9	4510.5	4762.2
37.5°	4727.0	4759.3	4883.3	4940.6	4694.0	4357.9	4148.6	4149.4	4156.8	4555.3	4760.0
40°	4994.1	5028.6	5215.0	5364.0	5162.9	4734.3	4413.6	4322.6	4314.6	4665.3	4803.3
42.5°	5368.4	5399.2	5623.0	5813.1	5683.3	5216.5	4779.8	4589.7	4572.9	4881.1	4942.0
45°	5841.7	5868.2	6105.9	6309.3	6242.5	5766.9	5240.0	4957.4	4954.4	5240.7	5223.1
47.5°	6404.7	6425.2	6638.8	6835.4	6859.6	6400.2	5818.3	5524.7	5477.0	5733.9	5658.3
50°	6991.0	7013.8	7159.0	7370.4	7550.3	7247.9	6562.5	6219.7	6155.9	6384.8	6274.7
52.5°	7379.3	7409.3	7535.6	7803.5	8326.7	8177.0	7442.3	7062.2	6965.4	7173.8	7089.4
55°	7206.1	7273.5	7466.5	7895.9	8947.6	9596.3	8527.8	8044.8	7935.6	8108.7	8058.8
57.5°	6418.5	6511.1	6774.5	7437.2	9034.9	10846.8	10168.8	9202.2	9125.2	9075.2	9098.1
60°	4979.4	5068.3	5394.8	6258.6	8426.5	11759.9	12638.3	10628.9	10517.4	10045.4	10066.0
62.5°	3524.1	3479.3	3703.2	4335.0	6847.2	11867.0	15448.3	12537.0	12170.1	11070.0	10979.7
65°	2687.5	2677.3	2777.8	2978.8	4147.2	10584.9	17122.3	15744.1	15170.9	12275.0	12062.2
67.5°	2208.2	2189.9	2289.0	2581.8	2670.7	6828.8	17159.0	19465.0	18902.0	13775.1	13314.2
70°	1815.7	1795.1	1887.6	2265.5	2468.0	3463.2	14441.5	21643.9	21613.8	15674.4	14259.5
71°	1627.8	1613.1	1723.9	2143.7	2424.7	2886.4	12468.8	21649.7	21740.0	16317.3	14203.7
72.5°	1325.4	1330.5	1448.0	1908.1	2392.5	2548.8	9164.1	20640.6	20831.5	16930.0	13696.5
75°	880.7	885.1	1039.1	1467.7	2319.8	2493.8	5036.7	17319.8	17670.5	16563.1	12498.1
77.5°	591.5	590.0	695.0	1006.9	2021.1	2493.8	2953.2	12953.8	13339.2	13179.2	9635.2
80°	407.3	404.4	478.5	695.0	1530.2	2523.8	2283.1	9078.2	9194.9	7117.2	3916.0
82.5°	249.6	251.7	312.6	490.9	1041.4	2271.4	2155.4	4950.1	4823.1	1996.2	978.3
85°	143.1	142.3	199.6	332.5	668.6	1916.9	2101.9	2130.4	1954.4	601.0	353.7
87.5°	51.3	55.1	107.1	184.2	383.1	1334.9	1783.4	1108.2	998.8	271.5	159.9
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°	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4
2.5°	4863.5	4867.9	4862.8	4833.4	4808.5	4768.0	4745.3	4713.7	4704.2	4699.8	4711.6
5°	4881.9	4883.3	4839.9	4762.9	4676.4	4574.4	4501.0	4410.7	4368.1	4349.8	4361.5
7.5°	4898.7	4892.1	4797.5	4649.9	4490.0	4312.3	4154.5	4009.9	3925.5	3891.1	3894.1
10°	4900.9	4873.0	4721.1	4492.9	4244.8	3984.3	3742.1	3519.0	3378.1	3286.3	3314.3
12.5°	4878.1	4831.2	4608.8	4289.6	3945.4	3590.2	3262.8	2928.2	2727.1	2634.0	2636.8
15°	4860.5	4775.4	4470.9	4050.4	3587.9	3117.5	2670.7	2277.3	2063.0	1967.5	1922.8
17.5°	4845.9	4715.2	4310.8	3781.0	3166.0	2569.3	2032.2	1681.4	1563.9	1536.0	1524.3
20°	4825.3	4651.4	4132.5	3469.1	2685.3	1955.8	1484.0	1310.7	1311.4	1343.8	1348.1
22.5°	4796.7	4578.7	3942.4	3119.0	2169.4	1424.5	1163.2	1113.3	1164.0	1225.6	1236.6
25°	4754.2	4492.9	3731.1	2732.2	1654.1	1094.9	993.7	991.4	1053.1	1117.7	1127.3
27.5°	4694.0	4380.6	3496.3	2316.9	1219.0	930.6	890.2	905.7	951.1	998.1	1001.8
30°	4613.2	4249.9	3237.2	1878.7	955.5	828.5	824.1	838.1	866.0	899.0	901.9
32.5°	4524.4	4117.2	2960.6	1454.6	818.3	773.6	777.9	784.5	797.8	810.9	813.9
35°	4443.7	3981.3	2677.3	1105.3	753.0	737.6	734.6	733.1	734.6	730.2	731.0
37.5°	4391.6	3869.1	2382.2	879.9	715.5	706.0	697.2	686.2	673.7	666.3	667.8
40°	4372.5	3785.4	2083.5	760.3	684.7	678.1	661.2	637.7	623.1	618.6	618.6
42.5°	4423.9	3742.1	1795.1	700.2	659.1	648.0	620.1	593.0	581.9	581.3	580.5
45°	4581.0	3759.7	1520.7	667.1	635.5	614.3	577.6	554.8	547.5	549.0	548.2
47.5°	4862.8	3870.5	1285.8	645.1	612.0	584.2	543.1	524.7	515.9	515.9	516.6
50°	5342.0	4129.6	1098.7	626.7	592.3	556.3	518.1	495.4	483.7	482.9	482.9
52.5°	6039.9	4593.4	981.9	611.4	570.2	531.4	493.2	464.6	450.6	447.7	446.2
55°	6914.7	5258.3	949.6	601.0	540.9	504.2	463.1	434.5	419.0	412.5	411.7
57.5°	7893.0	6067.1	1013.5	588.6	510.8	471.9	430.1	402.9	386.8	378.7	377.9
60°	8883.0	6949.9	1274.0	570.9	485.8	436.7	396.3	371.3	355.2	346.3	345.0
62.5°	9874.5	7880.5	1806.1	569.5	468.2	402.9	361.8	340.5	325.1	315.6	313.4
65°	10992.9	8899.2	2410.8	608.4	462.3	372.1	326.6	309.7	296.5	287.7	286.9
67.5°	12277.2	10049.2	2352.8	688.4	482.2	344.2	293.5	280.3	270.8	263.4	262.7
70°	12879.8	9869.4	1462.6	744.9	510.0	317.0	262.0	252.4	245.1	240.0	237.8
71°	12627.3	9371.0	1226.3	738.3	507.1	305.3	249.6	242.2	234.8	230.5	228.2
72.5°	11938.9	8546.1	1023.0	686.9	474.1	284.0	233.4	226.0	219.5	214.3	212.9
75°	10713.3	7632.4	819.0	549.0	377.9	240.0	204.8	196.6	191.5	188.6	185.7
77.5°	7875.4	5446.9	633.4	433.7	278.2	195.9	174.7	168.8	163.7	159.3	157.1
80°	3017.0	2110.0	426.4	323.6	204.0	154.8	140.9	138.0	132.8	129.9	129.9
82.5°	812.4	630.4	227.5	195.9	136.5	113.0	107.9	106.4	102.0	96.1	96.9
85°	328.7	278.2	127.7	107.9	83.7	66.8	72.7	73.4	68.3	60.9	61.7
87.5°	144.6	118.1	71.2	47.7	36.7	25.7	33.1	33.1	30.1	25.0	22.7
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)