

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: P652008

Luminaire Tested: **GALN-SA7A-840-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652008  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-840-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26220.7 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

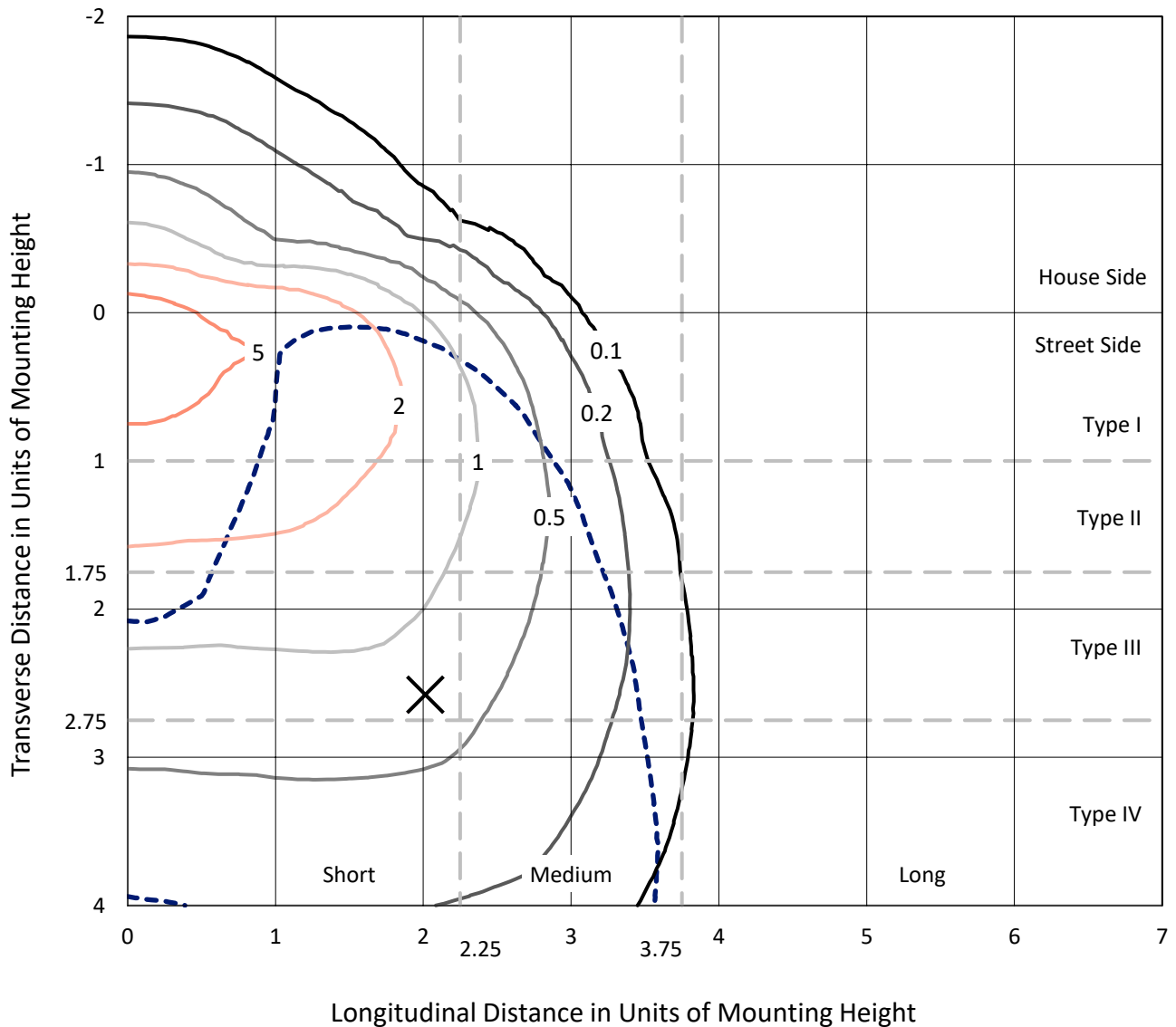
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

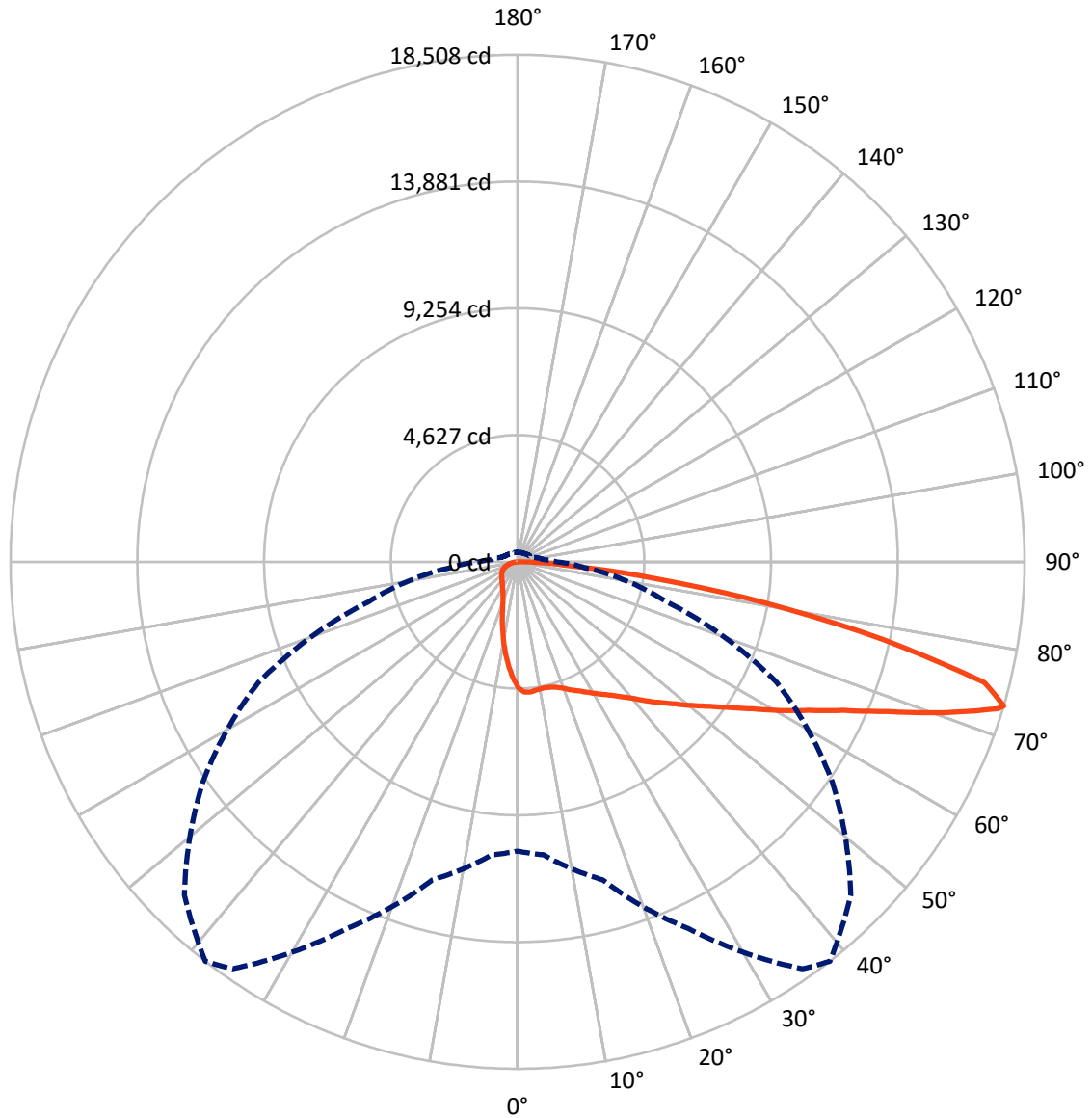
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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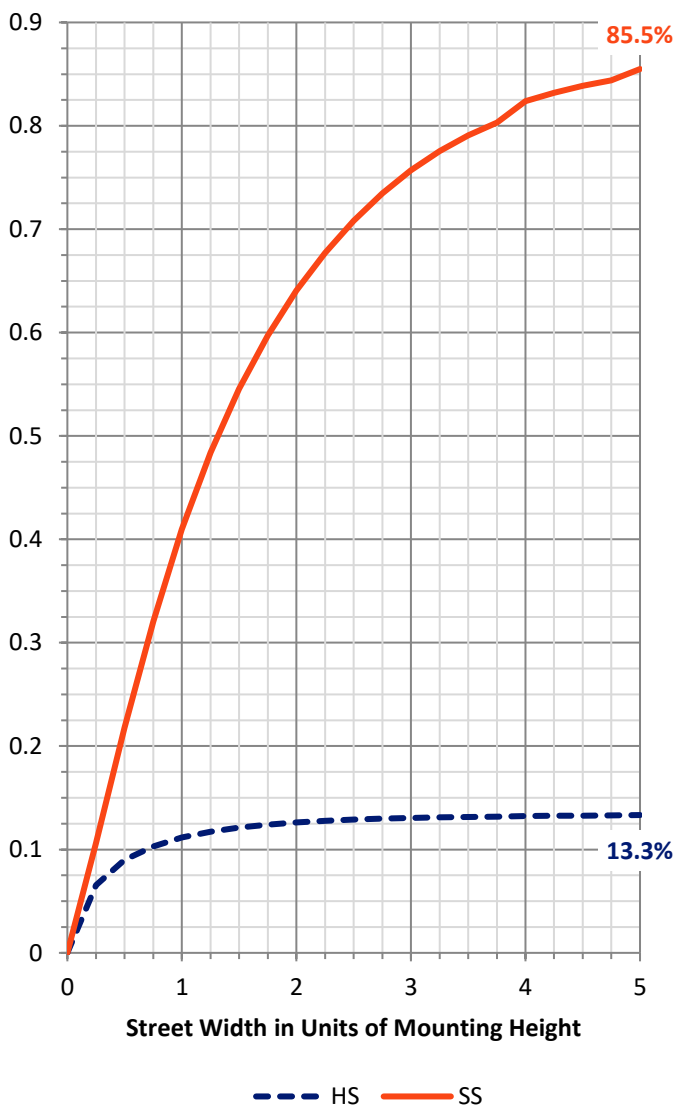
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3524.8	0.0	3524.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	22695.9	0.0	22695.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	26220.7	0.0	26220.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.1	1.5
10°-20°	1031.1	3.9
20°-30°	1605.6	6.1
30°-40°	2355.1	9.0
40°-50°	3493.5	13.3
50°-60°	4949.7	18.9
60°-70°	6278.8	23.9
70°-80°	5226.6	19.9
80°-90°	878.2	3.3
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°	26220.7	100.0
0°-180°	26220.7	100.0

**Coefficient of Utilization**



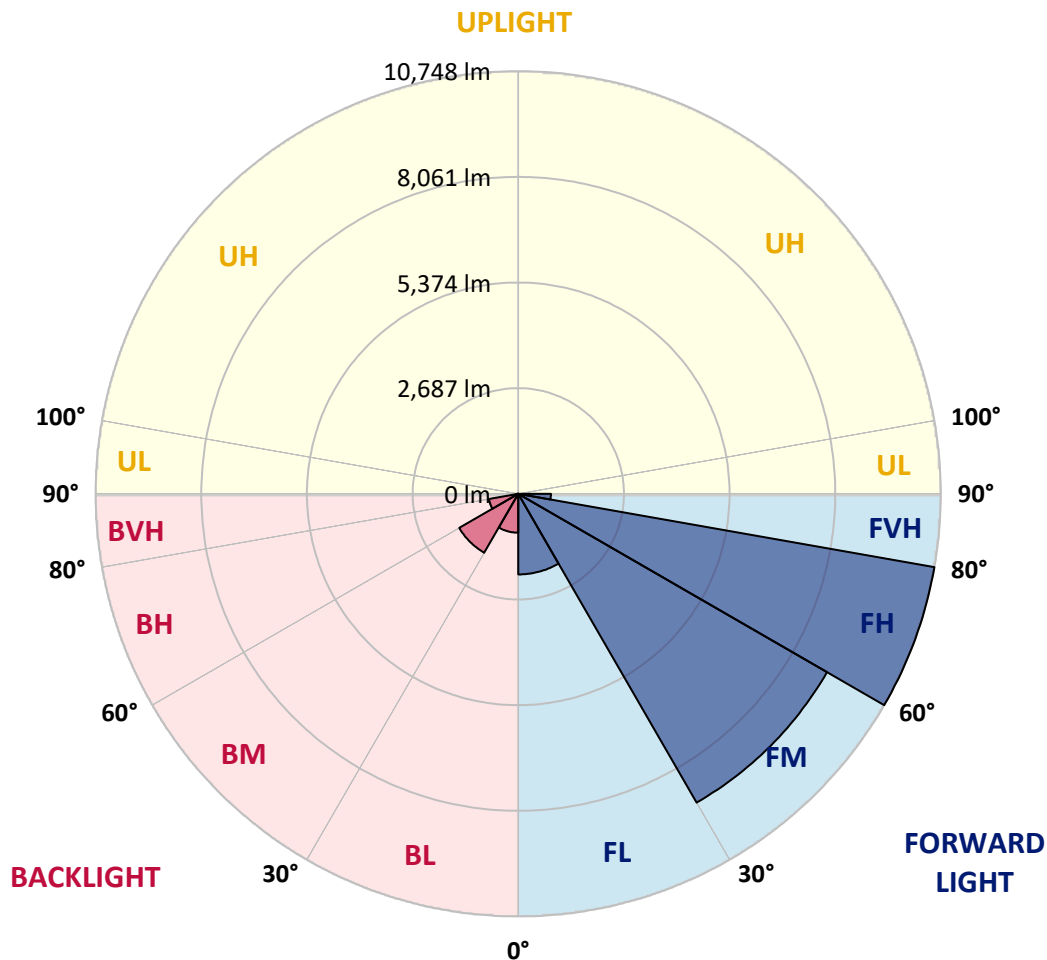
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2049.7	7.8			
FM (30°-60°)	9067.8	34.6			
FH (60°-80°)	10747.8	41.0			G4/12000
FVH (80°-90°)	830.5	3.2			G5
BL (0°-30°)	989.1	3.8	B2/1000		
BM (30°-60°)	1730.5	6.6	B2/2500		
BH (60°-80°)	757.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	47.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5
2.5°	4791.6	4815.3	4803.5	4787.1	4776.8	4766.5	4751.6	4708.7	4674.6	4637.6	4579.9
5°	4827.2	4842.0	4831.6	4810.9	4787.1	4776.8	4748.7	4692.4	4637.6	4575.5	4489.6
7.5°	4806.4	4812.4	4800.5	4775.4	4754.6	4735.3	4702.8	4640.6	4573.9	4498.4	4385.9
10°	4732.4	4754.6	4754.6	4733.9	4713.1	4702.8	4670.2	4611.0	4550.2	4464.4	4331.2
12.5°	4671.7	4695.4	4714.6	4708.7	4707.2	4707.2	4682.0	4637.6	4566.5	4485.1	4326.7
15°	4630.2	4658.4	4699.8	4723.5	4738.3	4742.7	4732.4	4693.9	4621.4	4526.6	4344.4
17.5°	4621.4	4655.4	4730.9	4782.8	4821.2	4819.8	4816.8	4763.5	4683.5	4585.8	4366.6
20°	4661.3	4705.7	4810.9	4892.3	4948.6	4938.2	4922.0	4852.3	4759.1	4649.5	4387.4
22.5°	4781.3	4827.2	4942.6	5031.5	5086.3	5086.3	5037.4	4945.6	4846.4	4723.5	4415.5
25°	4953.0	5003.4	5126.2	5216.6	5241.8	5222.5	5173.7	5062.6	4948.6	4830.1	4474.7
27.5°	5163.3	5224.0	5338.0	5413.5	5406.1	5391.3	5340.9	5198.8	5084.8	4976.7	4575.5
30°	5425.4	5469.8	5588.3	5606.0	5579.4	5576.4	5505.4	5363.1	5256.6	5173.7	4719.1
32.5°	5672.6	5712.7	5807.4	5814.8	5767.4	5773.4	5706.7	5576.4	5515.7	5486.1	4960.4
35°	5934.8	5955.5	6037.0	6028.0	5996.9	5992.5	5965.8	5841.4	5860.7	5914.0	5302.5
37.5°	6153.8	6195.3	6241.2	6248.6	6247.2	6262.0	6279.7	6220.5	6331.6	6498.9	5751.1
40°	6355.3	6390.8	6458.9	6482.6	6540.4	6570.0	6630.7	6632.1	6888.3	7163.7	6303.5
42.5°	6491.5	6552.2	6679.6	6722.4	6863.1	6952.0	7042.3	7138.6	7510.2	7864.1	6955.0
45°	6609.9	6689.9	6901.7	7034.9	7226.0	7334.0	7525.0	7726.4	8261.0	8724.4	7616.9
47.5°	6789.1	6860.2	7103.0	7338.5	7627.2	7751.6	8037.4	8337.9	9036.9	9544.8	8250.6
50°	7037.9	7080.8	7328.1	7711.6	8080.3	8240.2	8617.8	9051.7	9866.0	10354.7	8807.4
52.5°	7356.2	7374.0	7570.9	8081.8	8567.4	8765.9	9266.4	9772.8	10591.6	11058.1	9248.6
55°	7732.3	7702.7	7856.7	8474.2	9124.3	9383.4	9920.9	10502.7	11407.5	11626.7	9569.9
57.5°	8104.0	8058.1	8181.0	8951.0	9811.3	10123.7	10750.1	11255.0	12136.1	12158.3	9795.0
60°	8497.9	8463.8	8610.4	9510.7	10653.8	11024.0	11602.9	12035.3	12840.8	12528.4	9830.5
62.5°	8902.2	8847.3	9056.1	10140.0	11602.9	11939.1	12500.3	12864.5	13532.4	12666.1	9488.5
65°	9294.5	9269.3	9592.1	10887.8	12683.9	13065.9	13610.8	13858.1	14086.2	12458.8	8640.0
67.5°	9712.0	9762.4	10277.7	11885.8	14093.6	14573.3	15161.1	14928.7	14244.6	11477.1	7276.2
70°	10348.8	10381.4	11178.0	13193.3	15910.4	16489.3	16773.7	15309.2	13480.5	9612.9	5469.8
72.5°	10622.8	10766.3	11982.0	14565.9	17974.5	18328.4	17315.6	14460.7	11229.8	6530.0	2874.1
73°	10562.0	10733.8	12019.1	14774.7	18135.9	18507.6	17200.0	14023.9	10439.1	5623.8	2464.0
75°	9805.4	10017.1	11537.8	14599.9	17822.0	17599.9	15343.3	11952.4	7054.1	2557.2	1122.4
77.5°	7736.8	7797.5	9142.0	11789.6	14034.3	13622.7	11483.0	7470.3	2881.5	950.7	636.7
80°	3881.0	4104.6	5152.9	6753.6	9384.8	9250.1	7248.2	3533.0	1200.9	558.3	422.0
82.5°	1867.2	2025.6	2509.8	3293.1	5185.5	5062.6	3589.3	1930.9	762.5	325.7	248.8
85°	1202.4	1320.8	1597.7	1571.1	2132.3	2036.0	1612.5	1461.5	451.6	170.3	173.2
87.5°	793.7	869.2	1042.4	833.7	775.9	701.9	712.2	823.3	88.8	65.2	23.7
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°	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5	4606.5
2.5°	4556.2	4536.9	4473.3	4411.0	4351.8	4295.6	4258.6	4209.7	4177.2	4186.0	4199.4
5°	4442.2	4399.3	4286.7	4177.2	4073.5	3950.6	3851.4	3771.4	3710.7	3688.5	3684.0
7.5°	4322.2	4249.7	4088.3	3900.2	3724.0	3571.5	3395.3	3307.9	3205.8	3170.2	3158.4
10°	4249.7	4151.9	3925.4	3663.3	3398.2	3145.1	2954.0	2798.6	2657.9	2631.2	2617.9
12.5°	4229.0	4100.1	3795.1	3457.5	3105.1	2794.1	2511.3	2306.9	2170.7	2139.7	2093.8
15°	4217.1	4057.2	3673.7	3250.2	2803.0	2423.9	2126.3	1888.0	1763.6	1680.7	1682.1
17.5°	4206.8	4008.3	3537.4	3023.6	2542.4	2105.6	1776.9	1562.2	1448.1	1403.7	1399.3
20°	4192.0	3950.6	3380.5	2785.2	2244.8	1815.4	1517.8	1357.8	1280.8	1243.8	1242.3
22.5°	4186.0	3894.3	3226.5	2542.4	1981.2	1591.8	1345.9	1233.4	1184.5	1159.4	1159.4
25°	4200.8	3854.3	3065.1	2311.4	1747.3	1400.8	1227.5	1150.5	1122.4	1109.0	1104.7
27.5°	4246.7	3836.6	2905.2	2080.4	1532.6	1270.5	1147.5	1094.2	1073.5	1063.2	1064.6
30°	4334.1	3835.0	2748.2	1852.4	1372.6	1171.3	1083.9	1046.9	1030.6	1024.7	1023.2
32.5°	4474.7	3867.7	2594.2	1664.3	1237.9	1088.3	1024.7	998.0	990.6	986.2	984.6
35°	4713.1	3959.4	2441.7	1492.6	1134.3	1014.3	968.4	955.0	944.7	949.2	950.7
37.5°	5034.5	4117.9	2296.6	1357.8	1055.8	959.5	921.0	909.2	903.2	907.7	912.1
40°	5465.3	4346.0	2175.2	1249.7	999.5	913.6	879.5	869.2	863.3	870.7	872.1
42.5°	5940.7	4609.5	2074.5	1165.3	953.6	875.1	842.5	830.7	826.3	830.7	832.2
45°	6429.3	4916.0	2022.7	1104.7	915.1	847.0	812.9	799.6	789.2	786.3	790.7
47.5°	6910.5	5182.5	2021.2	1067.6	884.0	821.8	784.8	769.9	756.6	749.2	747.7
50°	7302.9	5394.3	2056.7	1051.3	857.3	793.7	756.6	741.8	724.1	709.3	712.2
52.5°	7599.1	5532.0	2073.0	1043.9	842.5	764.0	727.0	713.7	693.0	673.7	673.7
55°	7790.1	5564.6	2033.0	1036.5	830.7	732.9	693.0	681.1	660.4	641.2	641.2
57.5°	7855.3	5463.9	1889.4	1018.7	818.9	706.3	658.9	648.6	632.3	613.0	610.1
60°	7704.2	5123.3	1637.7	965.5	795.2	678.2	621.9	617.5	611.6	595.3	593.7
62.5°	7122.3	4400.7	1363.8	895.8	755.1	648.6	587.9	595.3	599.7	590.8	589.3
65°	6153.8	3573.0	1165.3	799.6	701.9	607.1	550.9	570.1	581.9	581.9	578.9
67.5°	4991.5	2743.8	981.7	716.7	635.2	550.9	509.4	524.2	533.0	530.1	537.5
70°	3547.8	1858.3	799.6	621.9	550.9	487.2	456.1	456.1	450.1	447.2	447.2
72.5°	1720.6	1061.7	648.6	519.7	469.4	416.0	390.9	380.6	368.7	367.2	359.8
73°	1437.8	952.1	619.0	500.5	450.1	405.7	377.6	361.3	353.9	348.0	346.5
75°	875.1	722.6	516.8	422.0	383.5	349.4	324.3	309.5	302.1	297.6	296.1
77.5°	576.0	539.0	401.2	322.8	293.2	272.5	262.1	247.3	242.8	236.9	236.9
80°	429.4	411.7	287.3	228.0	210.2	192.5	189.6	186.5	174.8	167.4	164.3
82.5°	276.9	293.2	195.4	152.5	133.3	118.5	119.9	124.4	112.5	102.2	99.2
85°	197.0	211.8	118.5	69.6	56.3	48.9	54.7	48.9	50.4	39.9	32.5
87.5°	32.5	56.3	20.7	8.9	4.5	2.9	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)