

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: P652441

Luminaire Tested: **GALN-SA6B-840-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-840-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23224.2 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

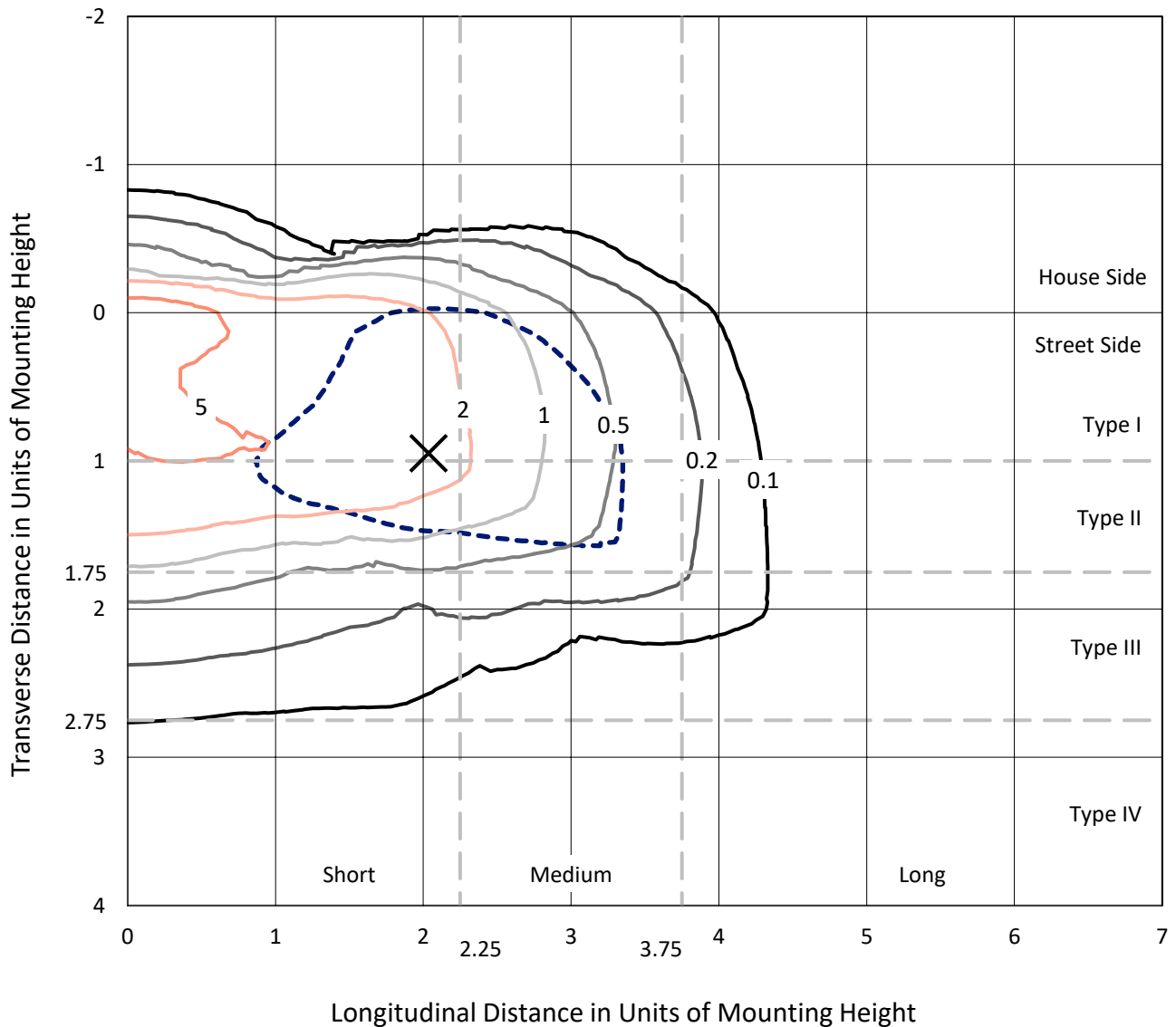
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

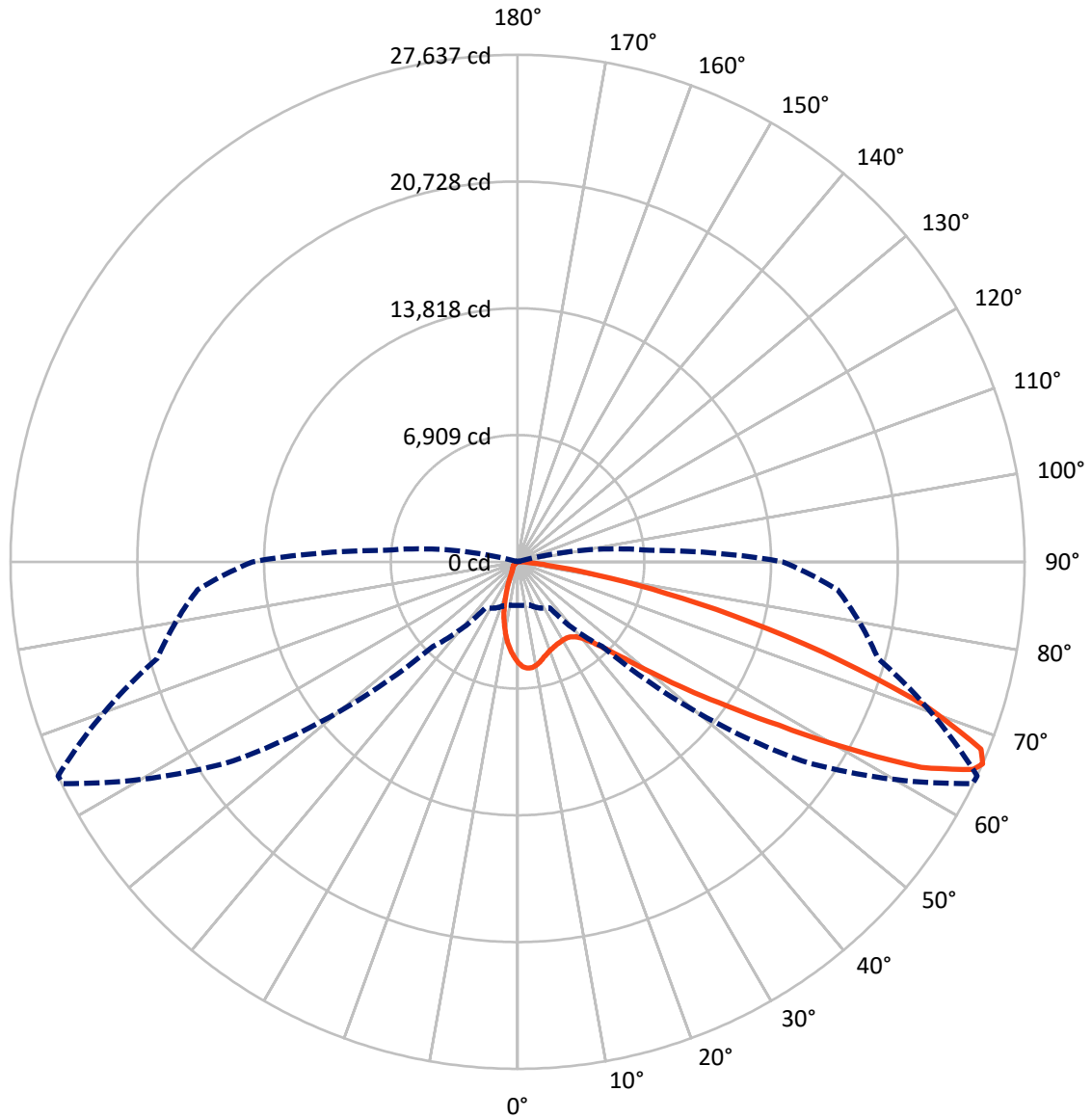
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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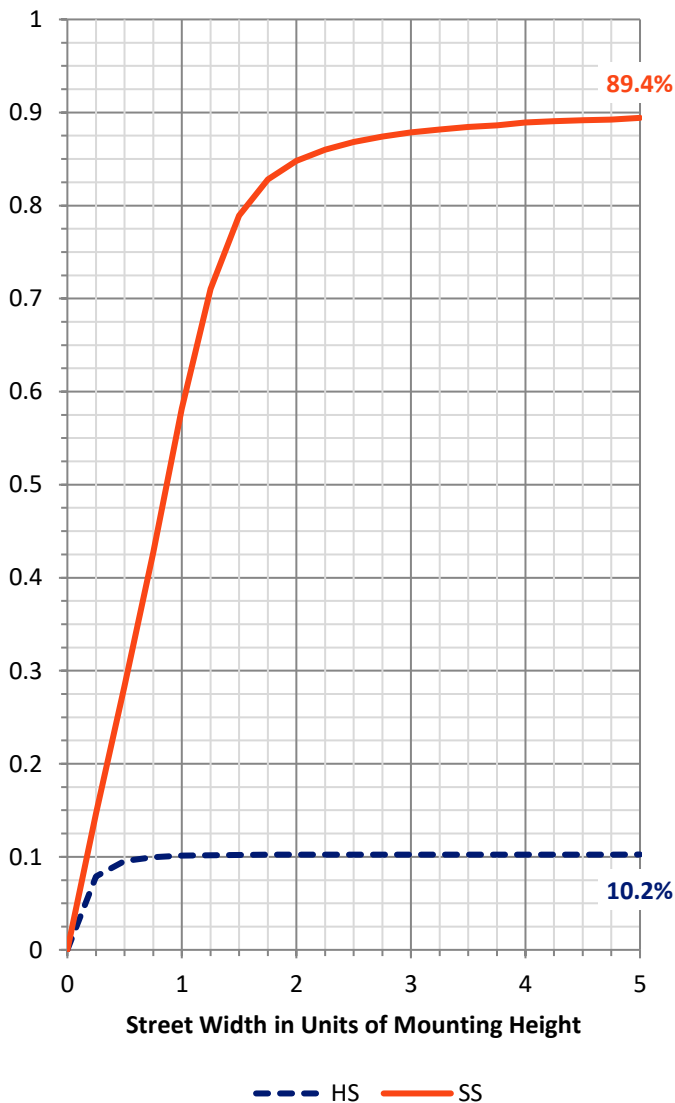
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2401.7	0.0	2401.7
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	20822.5	0.0	20822.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	23224.2	0.0	23224.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.4	1.9
10°-20°	981.4	4.2
20°-30°	1405.8	6.1
30°-40°	2053.4	8.8
40°-50°	3443.1	14.8
50°-60°	5746.0	24.7
60°-70°	6099.2	26.3
70°-80°	2762.3	11.9
80°-90°	282.6	1.2
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°	23224.2	100.0
0°-180°	23224.2	100.0

**Coefficient of Utilization**



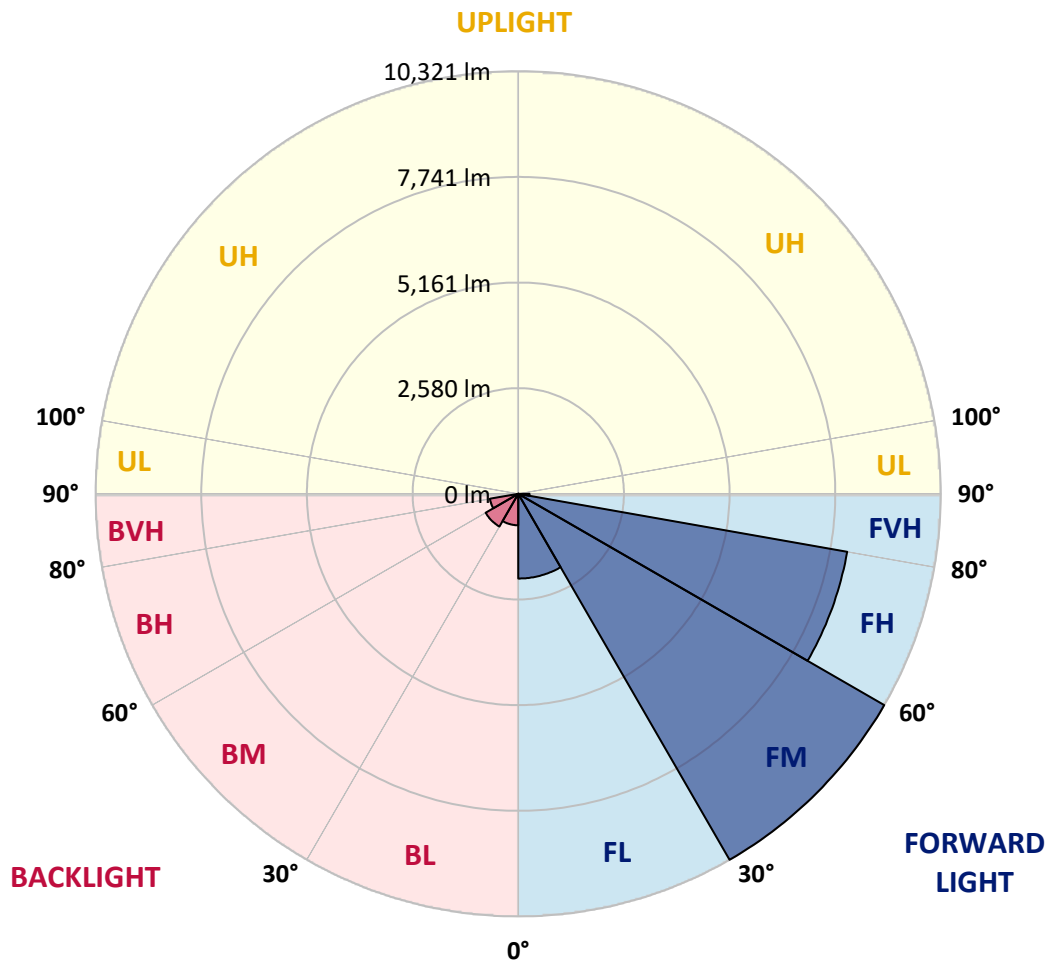
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2069.4	8.9			
FM (30°-60°)	10321.4	44.4			
FH (60°-80°)	8158.1	35.1			G4/12000
FVH (80°-90°)	273.6	1.2			G3/500
BL (0°-30°)	768.3	3.3	B2/1000		
BM (30°-60°)	921.1	4.0	B1/1000		
BH (60°-80°)	703.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3
2.5°	5803.7	5810.0	5817.9	5828.9	5836.7	5813.2	5780.3	5742.6	5734.8	5654.8	5557.5
5°	5493.2	5502.6	5571.6	5609.3	5694.0	5770.9	5819.5	5825.8	5822.6	5747.3	5592.1
7.5°	5050.9	5077.5	5145.0	5210.8	5369.3	5515.2	5687.7	5808.5	5816.4	5795.9	5603.0
10°	4691.7	4708.9	4743.4	4873.6	5005.4	5228.1	5469.7	5697.1	5715.9	5797.5	5593.6
12.5°	4410.9	4435.9	4478.3	4578.7	4737.1	4947.4	5221.9	5527.7	5566.9	5767.7	5566.9
15°	4214.8	4227.4	4269.7	4368.5	4522.2	4716.7	4994.4	5350.4	5385.0	5728.5	5562.2
17.5°	4122.2	4136.4	4166.1	4244.6	4371.7	4552.1	4823.4	5207.7	5251.6	5703.4	5579.4
20°	4147.4	4159.9	4161.4	4202.2	4288.5	4440.6	4697.9	5074.4	5130.9	5687.7	5607.7
22.5°	4290.1	4291.6	4272.9	4254.0	4283.8	4393.6	4621.0	4989.7	5047.7	5684.6	5640.7
25°	4503.4	4508.1	4476.7	4410.9	4351.2	4407.8	4603.8	4934.8	4986.5	5676.8	5661.0
27.5°	4798.3	4796.7	4787.3	4677.6	4508.1	4470.5	4617.9	4905.0	4948.9	5654.8	5668.8
30°	5210.8	5198.3	5178.0	5054.0	4795.2	4622.6	4677.6	4886.1	4926.9	5623.4	5648.5
32.5°	5617.1	5664.1	5661.0	5543.4	5220.3	4894.0	4801.4	4911.3	4941.0	5603.0	5618.7
35°	6090.9	6089.3	6210.0	6166.1	5788.1	5240.7	5013.2	4994.4	5017.9	5617.1	5604.6
37.5°	6530.0	6570.8	6759.0	6804.5	6459.5	5730.1	5312.8	5173.2	5181.1	5712.8	5639.1
40°	7077.4	7155.9	7436.7	7588.8	7284.5	6456.3	5755.1	5501.1	5502.6	5948.1	5769.3
42.5°	7783.4	7907.3	8169.2	8423.3	8260.2	7315.9	6418.7	6020.2	6017.1	6362.2	6067.3
45°	8641.4	8727.6	9025.7	9428.8	9325.3	8515.9	7384.9	6825.0	6784.2	7041.4	6595.9
47.5°	9381.8	9499.3	9802.1	10261.7	10732.3	9980.9	8539.4	7930.8	7904.1	8122.1	7502.6
50°	9704.9	9808.4	10126.8	10771.5	11911.8	11904.0	10258.6	9544.8	9499.3	9617.0	8904.8
52.5°	9350.3	9447.6	9769.1	10572.3	12467.2	14247.5	12749.5	11569.9	11515.1	11364.4	10580.1
55°	8136.3	8216.2	8691.6	9613.9	12253.8	15809.8	16181.6	14071.8	13858.5	13273.4	12476.6
57.5°	6478.3	6437.5	6732.4	7803.7	11002.0	16333.7	19704.6	17188.6	16807.5	14923.5	14081.2
60°	4489.3	4614.8	4734.0	5439.8	8272.7	15425.5	21895.9	21106.9	20605.0	16547.0	15618.5
62.5°	3300.3	3383.4	3461.9	3788.1	5201.4	12316.5	22283.4	25131.9	24686.5	18270.9	17085.1
65°	2610.1	2616.4	2647.8	2969.3	3427.3	8009.2	20421.5	27401.7	27287.2	19930.5	17679.6
66°	2378.0	2379.5	2428.1	2773.3	3076.0	6522.2	18929.7	27574.2	27636.9	20328.9	17505.5
67.5°	2078.4	2072.1	2142.7	2492.5	2801.5	4702.6	16260.0	26874.7	27246.4	20634.8	16879.6
70°	1610.9	1603.1	1689.4	2090.9	2580.4	3137.2	10807.6	23075.5	23674.7	20008.9	14934.6
72.5°	1072.9	1079.2	1226.6	1650.1	2462.7	2762.3	6501.8	17554.1	18401.2	16523.5	11748.8
75°	625.9	636.9	804.7	1226.6	2138.0	2633.7	3679.9	12517.4	13058.5	11409.9	7319.1
77.5°	327.8	332.5	450.2	809.4	1639.2	2445.5	2451.7	7996.6	8250.8	5545.0	2897.2
80°	174.1	169.4	241.5	487.9	1127.8	2147.4	1989.0	4233.6	4401.5	1647.0	732.5
82.5°	65.9	72.2	128.6	320.0	666.7	1541.9	1712.9	1871.3	1813.3	362.3	307.5
85°	12.5	15.7	54.9	189.8	335.6	644.7	1262.7	917.6	850.2	136.5	177.3
87.5°	1.6	3.1	15.7	45.5	48.6	218.1	373.3	254.2	219.6	50.2	73.8
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°	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3	5507.3
2.5°	5510.5	5468.1	5326.9	5187.3	5044.6	4916.0	4828.1	4685.4	4649.3	4597.5	4567.7
5°	5499.5	5400.6	5129.3	4832.8	4556.8	4258.7	4031.2	3811.7	3694.0	3634.4	3612.4
7.5°	5468.1	5311.3	4887.7	4423.4	3981.0	3535.6	3148.2	2853.3	2663.4	2533.3	2445.5
10°	5405.4	5188.9	4606.9	3968.5	3300.3	2712.1	2221.1	1847.8	1559.2	1468.2	1471.3
12.5°	5341.0	5052.4	4293.2	3463.4	2635.2	1893.3	1372.5	1077.7	939.6	894.1	884.6
15°	5281.5	4922.2	3985.8	2974.0	1962.3	1226.6	884.6	781.1	743.5	735.7	734.1
17.5°	5250.1	4801.4	3657.9	2414.1	1369.4	832.9	709.0	680.8	669.8	662.0	658.8
20°	5223.4	4696.4	3344.2	1890.1	936.5	682.3	635.3	608.6	589.8	582.0	577.3
22.5°	5204.6	4588.2	3019.5	1463.5	716.9	605.4	563.1	528.7	501.9	492.6	486.3
25°	5176.4	4468.9	2691.7	1069.8	603.9	538.0	489.4	448.6	414.1	396.9	393.8
27.5°	5135.6	4334.0	2332.5	792.1	539.6	478.4	418.8	368.6	334.1	315.3	316.9
30°	5069.7	4192.8	1973.3	629.0	487.9	417.2	353.0	304.3	271.4	257.3	255.7
32.5°	4991.3	4021.8	1643.9	539.6	440.8	362.3	294.9	252.6	227.4	216.5	214.9
35°	4917.5	3849.3	1308.2	484.7	392.2	312.2	247.8	211.8	192.9	183.5	185.1
37.5°	4876.7	3695.6	1019.5	440.8	353.0	268.2	213.4	182.0	164.7	156.8	155.2
40°	4903.5	3570.1	811.0	401.6	309.0	230.6	183.5	156.8	139.6	128.6	128.6
42.5°	5028.9	3515.2	654.1	363.9	268.2	199.2	160.0	134.9	116.1	105.1	106.6
45°	5411.7	3573.2	547.4	329.4	230.6	172.6	138.0	111.3	94.1	86.3	84.7
47.5°	6046.9	3791.3	473.7	293.3	197.6	147.4	116.1	92.5	75.3	69.0	67.4
50°	7157.5	4241.5	418.8	257.3	167.9	125.5	95.7	73.8	59.6	53.3	53.3
52.5°	8685.3	5223.4	379.6	216.5	141.2	106.6	78.5	59.6	47.1	42.4	40.8
55°	10282.1	6258.6	359.2	182.0	117.7	87.8	62.7	47.1	36.1	31.4	29.8
57.5°	11817.7	7071.2	335.6	147.4	94.1	67.4	48.6	36.1	25.1	22.0	20.4
60°	13290.7	7728.5	285.5	117.7	73.8	48.6	36.1	25.1	17.2	14.1	14.1
62.5°	14608.3	8111.2	224.3	94.1	56.4	34.5	23.5	18.8	12.5	9.4	9.4
65°	14762.0	7613.9	169.4	72.2	40.8	22.0	14.1	14.1	9.4	6.3	6.3
66°	14453.0	7192.0	149.0	65.9	36.1	18.8	12.5	11.0	7.8	4.7	4.7
67.5°	13762.8	6472.0	128.6	56.4	29.8	14.1	9.4	9.4	6.3	3.1	3.1
70°	11891.5	5286.1	101.9	42.4	22.0	11.0	6.3	6.3	4.7	3.1	3.1
72.5°	9063.3	3946.6	83.2	31.4	15.7	7.8	4.7	4.7	4.7	3.1	3.1
75°	5466.5	2125.5	64.3	23.5	14.1	6.3	3.1	4.7	6.3	4.7	3.1
77.5°	2014.1	723.1	50.2	18.8	11.0	6.3	3.1	3.1	6.3	4.7	4.7
80°	494.1	188.2	36.1	15.7	11.0	6.3	3.1	3.1	6.3	6.3	6.3
82.5°	229.0	80.0	25.1	14.1	11.0	6.3	3.1	3.1	4.7	6.3	6.3
85°	131.8	37.7	20.4	15.7	11.0	6.3	3.1	3.1	4.7	6.3	6.3
87.5°	53.3	18.8	18.8	15.7	12.5	7.8	3.1	3.1	3.1	4.7	4.7
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)