

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: P652496

Luminaire Tested: **GALN-SA7B-840-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652496  
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-SA7B-840-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 27279.5 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

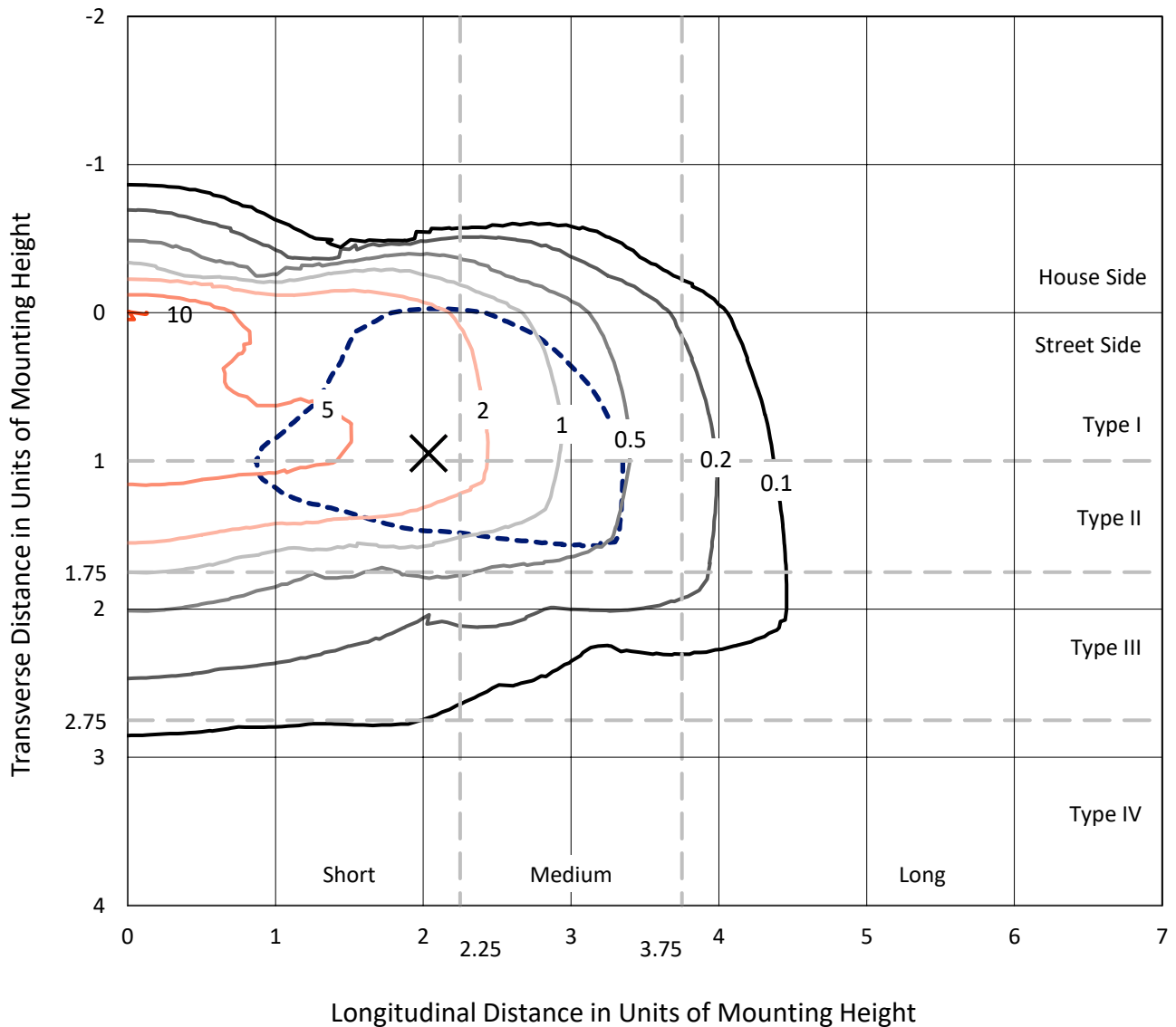
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

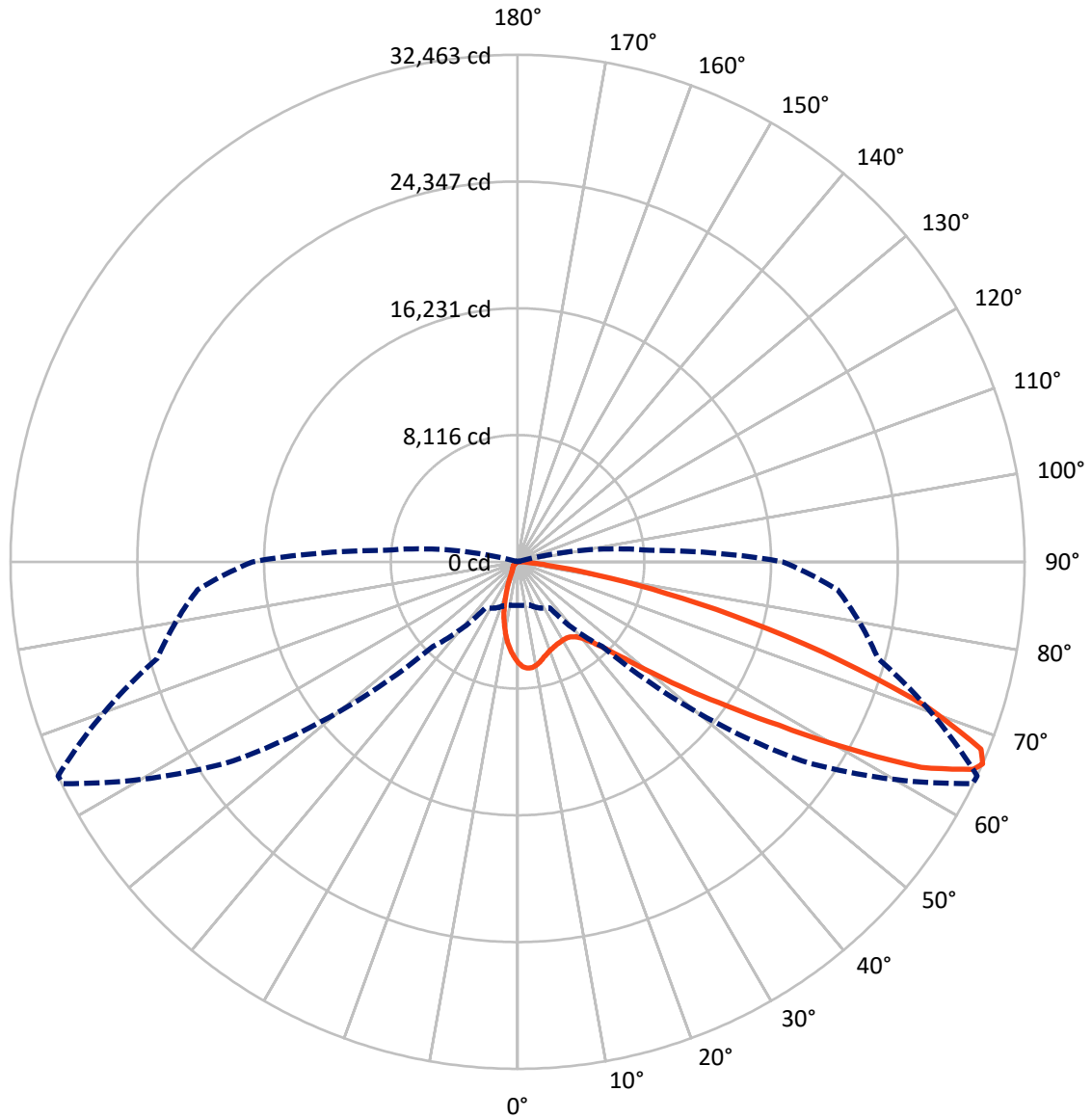
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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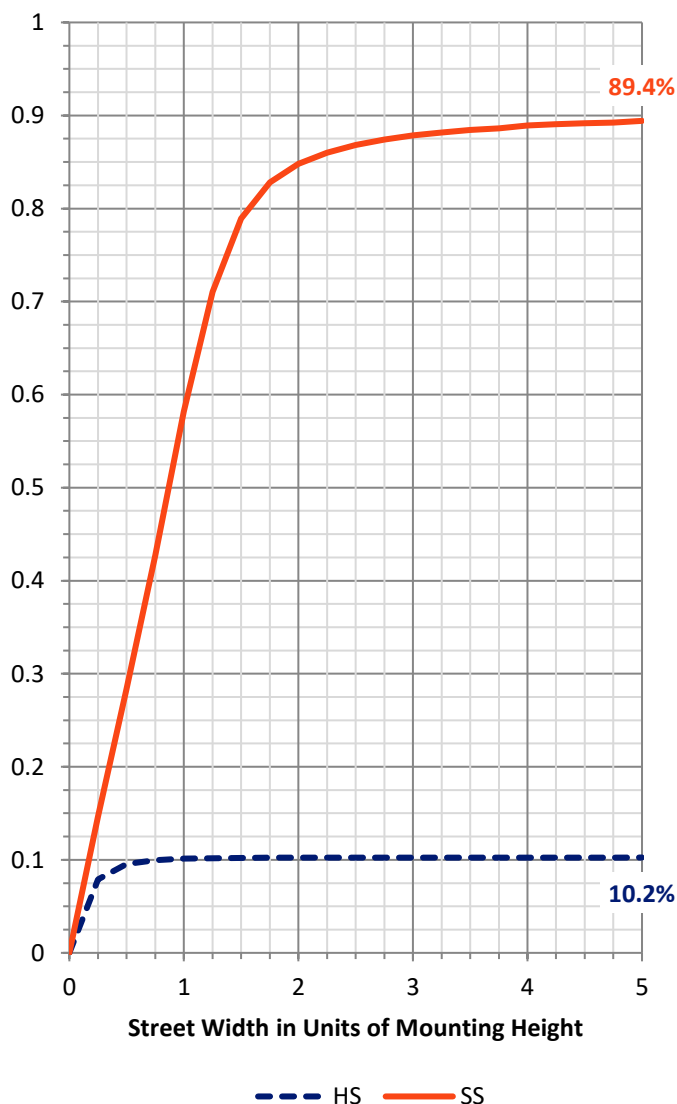
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2821.1	0.0	2821.1
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	24458.4	0.0	24458.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	27279.5	0.0	27279.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.1	1.9
10°-20°	1152.7	4.2
20°-30°	1651.3	6.1
30°-40°	2411.9	8.8
40°-50°	4044.3	14.8
50°-60°	6749.3	24.7
60°-70°	7164.2	26.3
70°-80°	3244.7	11.9
80°-90°	332.0	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°	27279.5	100.0
0°-180°	27279.5	100.0

**Coefficient of Utilization**

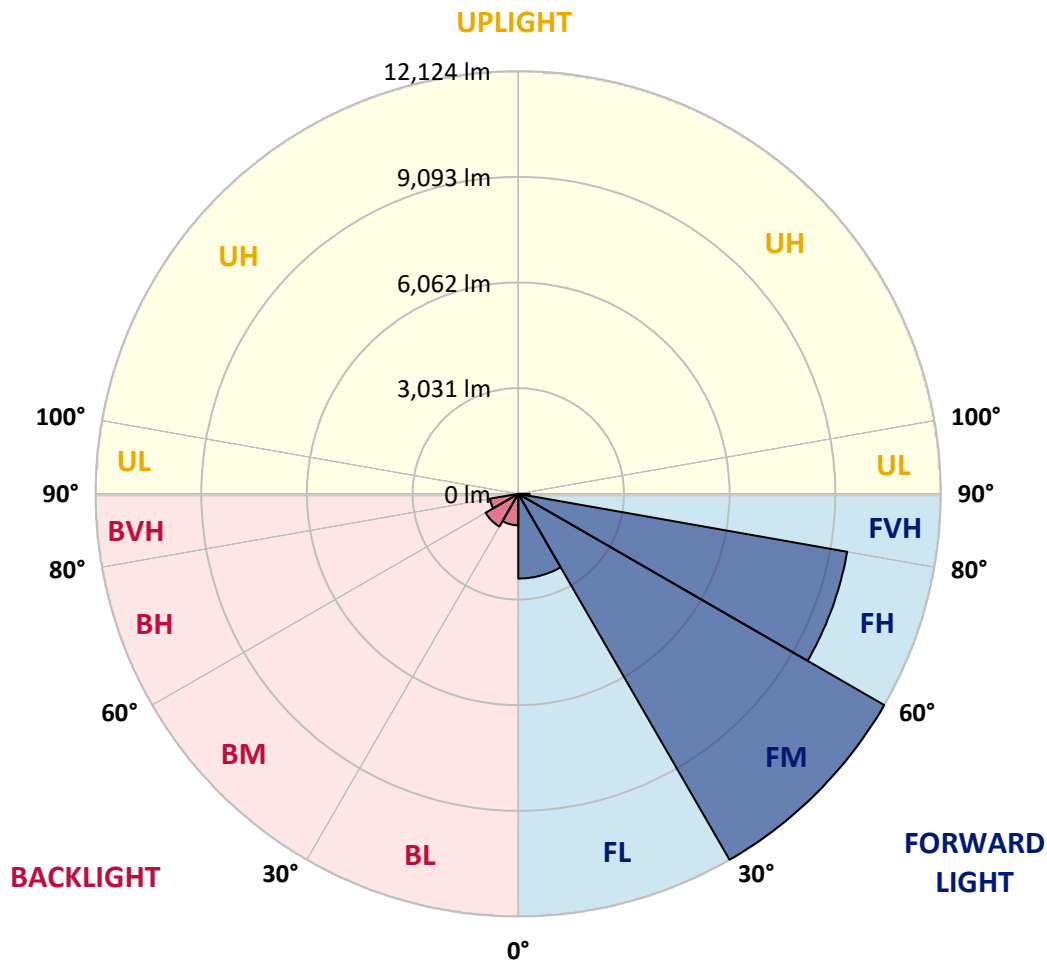


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.7	8.9			
FM (30°-60°)	12123.6	44.4			
FH (60°-80°)	9582.7	35.1			G4/12000
FVH (80°-90°)	321.4	1.2			G3/500
BL (0°-30°)	902.4	3.3	B2/1000		
BM (30°-60°)	1081.9	4.0	B2/2500		
BH (60°-80°)	826.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.0			G1/100
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°	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0
2.5°	6817.2	6824.5	6833.8	6846.7	6855.9	6828.2	6789.6	6745.3	6736.2	6642.1	6527.9
5°	6452.4	6463.4	6544.5	6588.7	6688.2	6778.5	6835.6	6843.0	6839.3	6750.9	6568.5
7.5°	5932.8	5964.1	6043.3	6120.7	6306.8	6478.2	6680.9	6822.7	6831.9	6808.0	6581.3
10°	5510.9	5531.2	5571.7	5724.6	5879.3	6141.0	6424.7	6691.9	6714.0	6809.8	6570.3
12.5°	5181.1	5210.6	5260.3	5378.2	5564.3	5811.2	6133.7	6492.9	6539.0	6774.8	6539.0
15°	4950.8	4965.5	5015.2	5131.4	5311.9	5540.3	5866.5	6284.7	6325.2	6728.8	6533.5
17.5°	4842.1	4858.6	4893.6	4985.8	5135.0	5346.9	5665.6	6117.1	6168.7	6699.3	6553.7
20°	4871.6	4886.3	4888.1	4936.0	5037.3	5216.1	5518.2	5960.4	6026.8	6680.9	6586.9
22.5°	5039.2	5041.0	5018.9	4996.8	5031.9	5160.8	5428.0	5860.9	5929.1	6677.2	6625.6
25°	5289.8	5295.3	5258.4	5181.1	5111.1	5177.4	5407.7	5796.5	5857.3	6668.0	6649.5
27.5°	5636.2	5634.4	5623.3	5494.3	5295.3	5251.1	5424.3	5761.4	5813.1	6642.1	6658.8
30°	6120.7	6106.0	6082.0	5936.5	5632.5	5429.8	5494.3	5739.3	5787.3	6605.3	6634.8
32.5°	6598.0	6653.2	6649.5	6511.4	6131.8	5748.6	5639.8	5768.8	5803.8	6581.3	6599.8
35°	7154.4	7152.5	7294.4	7242.9	6798.8	6155.8	5888.6	5866.5	5894.1	6598.0	6583.2
37.5°	7670.3	7718.2	7939.3	7992.7	7587.3	6730.6	6240.5	6076.6	6085.7	6710.3	6623.7
40°	8313.3	8405.5	8735.2	8913.9	8556.5	7583.7	6760.1	6461.6	6463.4	6986.7	6776.7
42.5°	9142.4	9288.0	9595.6	9894.2	9702.5	8593.3	7539.5	7071.5	7067.8	7473.1	7126.7
45°	10150.3	10251.6	10601.6	11075.2	10953.6	10002.9	8674.4	8016.7	7968.7	8270.9	7747.6
47.5°	11020.0	11158.1	11513.7	12053.5	12606.3	11723.8	10030.5	9315.6	9284.3	9540.4	8812.6
50°	11399.5	11521.1	11895.1	12652.3	13991.9	13982.6	12049.8	11211.5	11158.1	11296.3	10459.8
52.5°	10983.0	11097.3	11475.0	12418.4	14644.1	16735.3	14975.8	13590.2	13525.7	13348.9	12427.6
55°	9557.0	9651.0	10209.2	11292.6	14393.5	18570.5	19007.1	16528.9	16278.4	15591.1	14655.2
57.5°	7609.5	7561.6	7907.9	9166.4	12923.2	19185.8	23145.3	20190.0	19742.3	17529.5	16540.0
60°	5273.2	5420.6	5560.6	6389.7	9717.3	18119.0	25719.3	24792.5	24203.0	19436.4	18345.7
62.5°	3876.6	3974.2	4066.4	4449.6	6109.7	14467.2	26174.4	29520.4	28997.1	21461.3	20068.4
65°	3065.9	3073.3	3110.1	3487.8	4025.9	9407.8	23987.3	32186.4	32051.9	23410.7	20766.7
66°	2793.2	2795.1	2852.2	3257.5	3613.1	7661.1	22235.2	32389.1	32462.9	23878.7	20562.2
67.5°	2441.3	2433.9	2516.9	2927.7	3290.7	5523.8	19099.3	31567.4	32004.0	24238.0	19827.0
70°	1892.2	1883.0	1984.3	2456.1	3030.9	3685.0	12694.7	27104.8	27808.7	23502.8	17542.3
72.5°	1260.2	1267.6	1440.8	1938.3	2892.7	3244.7	7637.1	20619.3	21614.2	19408.8	13800.2
75°	735.1	748.1	945.2	1440.8	2511.3	3093.5	4322.5	14703.0	15338.7	13402.3	8597.0
77.5°	385.1	390.6	528.8	950.8	1925.4	2872.4	2879.8	9393.0	9691.5	6513.2	3403.1
80°	204.5	199.0	283.8	573.0	1324.7	2522.3	2336.3	4972.9	5170.0	1934.6	860.4
82.5°	77.4	84.8	151.0	375.8	783.1	1811.2	2012.0	2198.1	2129.9	425.6	361.1
85°	14.7	18.4	64.5	222.9	394.3	757.2	1483.2	1077.8	998.6	160.3	208.2
87.5°	1.9	3.7	18.4	53.4	57.1	256.1	438.5	298.5	257.9	59.0	86.6
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°	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0	6469.0
2.5°	6472.7	6422.9	6257.1	6093.1	5925.4	5774.4	5671.2	5503.5	5461.1	5400.3	5365.3
5°	6459.8	6343.7	6024.9	5676.8	5352.5	5002.4	4735.2	4477.2	4339.1	4269.1	4243.3
7.5°	6422.9	6238.7	5741.2	5195.8	4676.2	4152.9	3697.9	3351.5	3128.5	2975.6	2872.4
10°	6349.2	6095.0	5411.4	4661.5	3876.6	3185.6	2609.0	2170.5	1831.4	1724.6	1728.3
12.5°	6273.7	5934.7	5042.9	4068.3	3095.4	2223.9	1612.2	1265.8	1103.6	1050.2	1039.1
15°	6203.6	5781.7	4681.8	3493.3	2304.9	1440.8	1039.1	917.5	873.4	864.1	862.3
17.5°	6166.8	5639.8	4296.7	2835.6	1608.5	978.3	832.8	799.6	786.8	777.5	773.8
20°	6135.5	5516.4	3928.2	2220.2	1099.9	801.5	746.2	714.8	692.8	683.6	678.0
22.5°	6113.4	5389.3	3546.8	1719.0	842.0	711.2	661.4	620.9	589.6	578.5	571.2
25°	6080.2	5249.3	3161.7	1256.5	709.4	632.0	574.8	527.0	486.4	466.2	462.5
27.5°	6032.3	5090.8	2739.8	930.5	633.8	562.0	492.0	432.9	392.4	370.4	372.1
30°	5955.0	4925.0	2317.9	738.8	573.0	490.1	414.5	357.4	318.7	302.2	300.3
32.5°	5862.8	4724.1	1930.9	633.8	517.7	425.6	346.4	296.6	267.2	254.2	252.4
35°	5776.2	4521.5	1536.7	569.4	460.6	366.7	291.2	248.8	226.6	215.5	217.4
37.5°	5728.3	4340.9	1197.6	517.7	414.5	315.0	250.6	213.7	193.4	184.3	182.4
40°	5759.6	4193.5	952.6	471.7	363.0	270.9	215.5	184.3	164.0	151.0	151.0
42.5°	5907.0	4129.1	768.3	427.5	315.0	234.0	188.0	158.4	136.3	123.5	125.3
45°	6356.6	4197.2	643.0	386.9	270.9	202.7	162.1	130.8	110.5	101.3	99.5
47.5°	7102.8	4453.3	556.4	344.6	232.1	173.2	136.3	108.7	88.5	81.1	79.2
50°	8407.3	4982.1	492.0	302.2	197.1	147.4	112.4	86.6	70.1	62.7	62.7
52.5°	10201.8	6135.5	445.9	254.2	165.8	125.3	92.1	70.1	55.3	49.8	47.9
55°	12077.5	7351.5	421.9	213.7	138.2	103.2	73.7	55.3	42.4	36.8	35.0
57.5°	13881.3	8306.0	394.3	173.2	110.5	79.2	57.1	42.4	29.5	25.8	24.0
60°	15611.4	9077.9	335.3	138.2	86.6	57.1	42.4	29.5	20.3	16.6	16.6
62.5°	17159.1	9527.5	263.5	110.5	66.4	40.5	27.7	22.1	14.7	11.0	11.0
65°	17339.7	8943.4	199.0	84.8	47.9	25.8	16.6	16.6	11.0	7.4	7.4
66°	16976.7	8447.8	175.0	77.4	42.4	22.1	14.7	12.9	9.3	5.6	5.6
67.5°	16166.0	7602.1	151.0	66.4	35.0	16.6	11.0	11.0	7.4	3.7	3.7
70°	13967.9	6209.2	119.8	49.8	25.8	12.9	7.4	7.4	5.6	3.7	3.7
72.5°	10645.9	4635.7	97.6	36.8	18.4	9.3	5.6	5.6	5.6	3.7	3.7
75°	6421.0	2496.6	75.5	27.7	16.6	7.4	3.7	5.6	7.4	5.6	3.7
77.5°	2365.7	849.4	59.0	22.1	12.9	7.4	3.7	3.7	7.4	5.6	5.6
80°	580.4	221.1	42.4	18.4	12.9	7.4	3.7	3.7	7.4	7.4	7.4
82.5°	269.0	93.9	29.5	16.6	12.9	7.4	3.7	3.7	5.6	7.4	7.4
85°	154.7	44.2	24.0	18.4	12.9	7.4	3.7	3.7	5.6	7.4	7.4
87.5°	62.7	22.1	22.1	18.4	14.7	9.3	3.7	3.7	3.7	5.6	5.6
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)