

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: P648096

Luminaire Tested: **GALN-SA8A-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648096  
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-SA8A-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA 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: 23664.6 lumens  
Efficiency: N/A  
Efficacy: 97.0 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

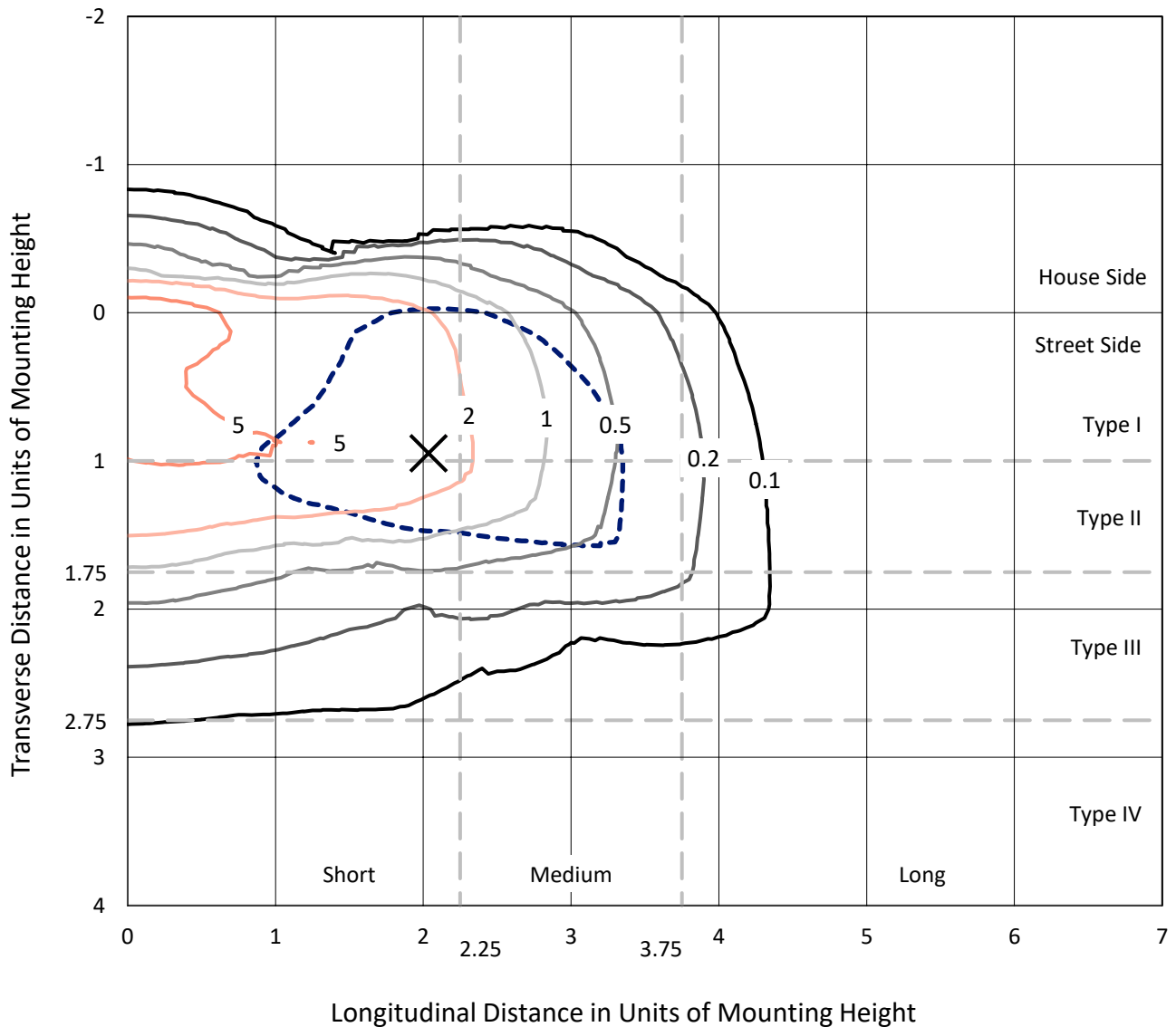
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

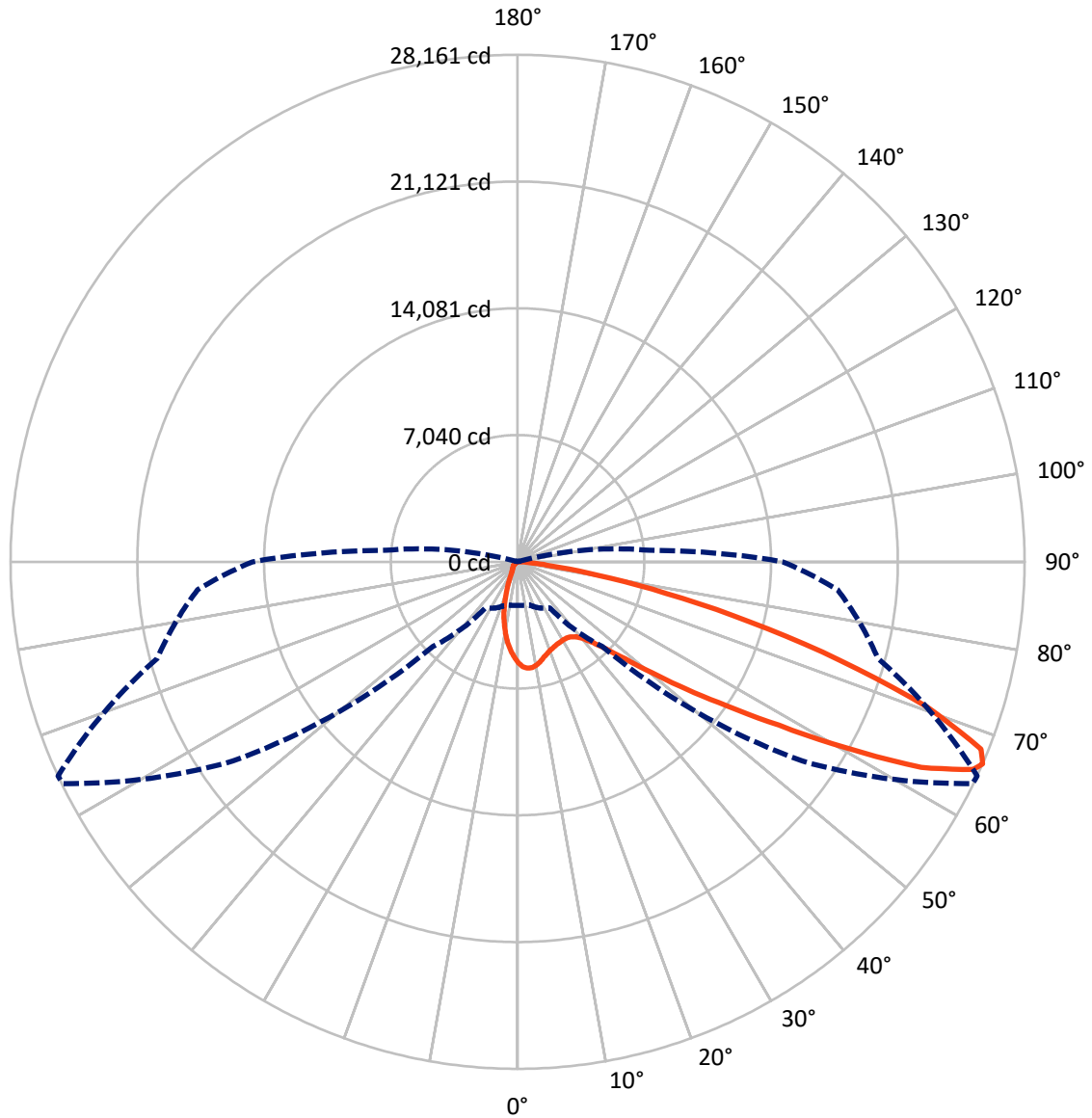
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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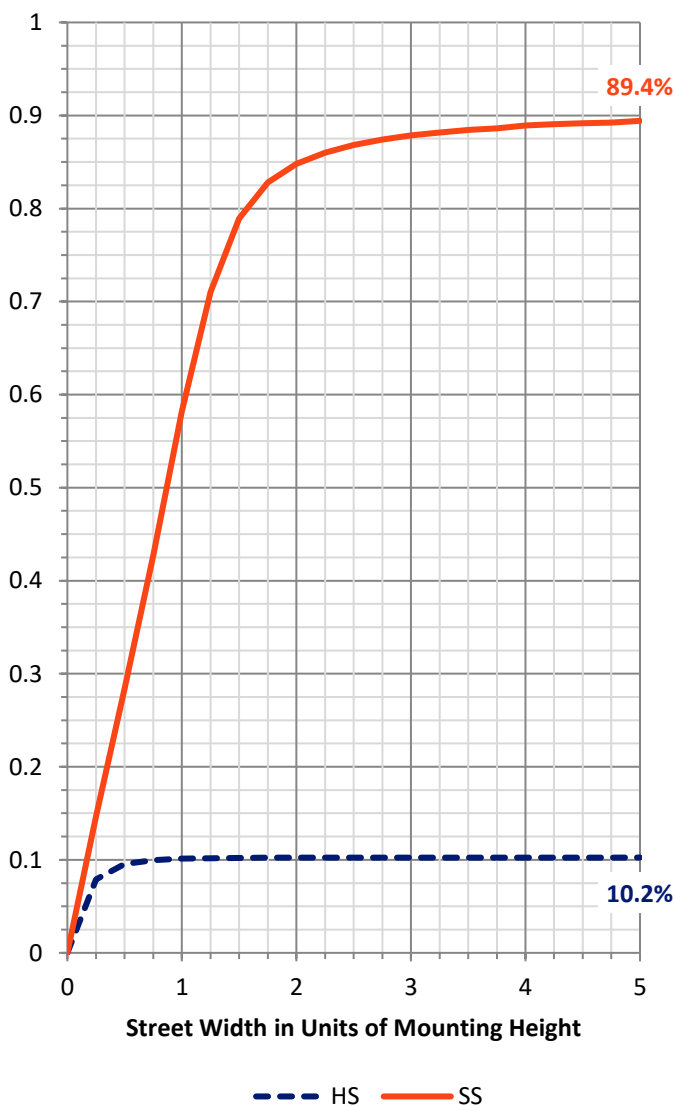
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2447.3	0.0	2447.3
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	21217.4	0.0	21217.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	23664.6	0.0	23664.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.0	1.9
10°-20°	1000.0	4.2
20°-30°	1432.5	6.1
30°-40°	2092.3	8.8
40°-50°	3508.4	14.8
50°-60°	5854.9	24.7
60°-70°	6214.8	26.3
70°-80°	2814.7	11.9
80°-90°	288.0	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°	23664.6	100.0
0°-180°	23664.6	100.0

**Coefficient of Utilization**

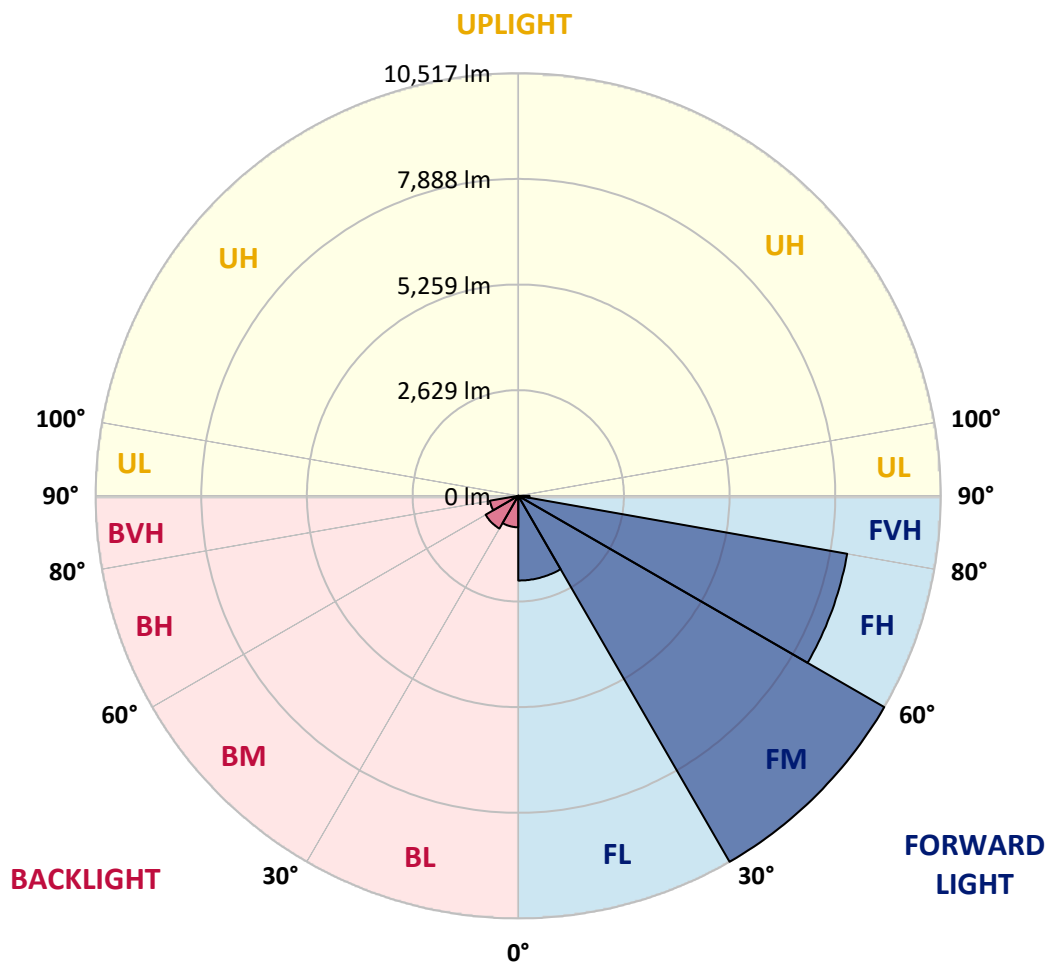


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2108.6	8.9			
FM (30°-60°)	10517.1	44.4			
FH (60°-80°)	8312.8	35.1			G4/12000
FVH (80°-90°)	278.8	1.2			G3/500
BL (0°-30°)	782.8	3.3	B2/1000		
BM (30°-60°)	938.5	4.0	B1/1000		
BH (60°-80°)	716.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.2	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°	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8
2.5°	5913.8	5920.3	5928.2	5939.4	5947.4	5923.4	5889.9	5851.5	5843.5	5762.0	5662.9
5°	5597.4	5607.0	5677.3	5715.7	5802.0	5880.3	5929.8	5936.2	5933.0	5856.3	5698.0
7.5°	5146.7	5173.8	5242.5	5309.7	5471.1	5619.7	5795.5	5918.6	5926.6	5905.9	5709.2
10°	4780.6	4798.2	4833.4	4966.0	5100.3	5327.2	5573.4	5805.2	5824.3	5907.4	5699.7
12.5°	4494.5	4520.1	4563.2	4665.5	4827.0	5041.1	5320.9	5632.5	5672.5	5877.0	5672.5
15°	4294.8	4307.5	4350.7	4451.4	4608.0	4806.2	5089.1	5452.0	5487.1	5837.1	5667.7
17.5°	4200.4	4214.8	4245.2	4325.1	4454.6	4638.3	4914.9	5306.5	5351.3	5811.5	5685.3
20°	4226.0	4238.8	4240.4	4281.9	4369.8	4524.9	4787.0	5170.6	5228.2	5795.5	5714.0
22.5°	4371.4	4373.1	4353.9	4334.7	4365.1	4477.0	4708.7	5084.3	5143.4	5792.4	5747.6
25°	4588.8	4593.6	4561.7	4494.5	4433.8	4491.3	4691.1	5028.3	5081.1	5784.3	5768.4
27.5°	4889.3	4887.7	4878.1	4766.2	4593.6	4555.3	4705.5	4998.0	5042.8	5762.0	5776.3
30°	5309.7	5296.9	5276.1	5149.9	4886.1	4710.3	4766.2	4978.8	5020.4	5730.0	5755.6
32.5°	5723.7	5771.6	5768.4	5648.5	5319.2	4986.8	4892.5	5004.4	5034.8	5709.2	5725.2
35°	6206.3	6204.7	6327.8	6283.0	5897.9	5340.1	5108.3	5089.1	5113.1	5723.7	5710.8
37.5°	6653.9	6695.4	6887.2	6933.5	6582.0	5838.8	5413.6	5271.3	5279.3	5821.1	5746.0
40°	7211.7	7291.6	7577.7	7732.8	7422.7	6578.8	5864.3	5605.3	5607.0	6060.9	5878.7
42.5°	7930.9	8057.2	8324.2	8583.1	8416.9	7454.6	6540.4	6134.4	6131.2	6482.8	6182.3
45°	8805.2	8893.2	9196.8	9607.6	9502.1	8677.4	7524.9	6954.4	6912.8	7174.9	6721.0
47.5°	9559.6	9679.5	9988.0	10456.3	10935.8	10170.2	8701.3	8081.2	8054.0	8276.2	7644.8
50°	9888.9	9994.4	10318.8	10975.8	12137.8	12129.8	10453.1	9725.9	9679.5	9799.4	9073.7
52.5°	9527.7	9626.8	9954.4	10772.7	12703.5	14517.7	12991.2	11789.3	11733.3	11579.9	10780.7
55°	8290.6	8372.1	8856.4	9796.2	12486.2	16109.6	16488.4	14338.7	14121.2	13525.1	12713.2
57.5°	6601.1	6559.6	6860.0	7951.7	11210.7	16643.4	20078.3	17514.5	17126.2	15206.6	14348.2
60°	4574.4	4702.3	4823.7	5543.0	8429.6	15718.0	22311.1	21507.2	20995.8	16860.8	15914.6
62.5°	3362.9	3447.6	3527.5	3860.0	5300.0	12550.2	22705.9	25608.5	25154.6	18617.4	17409.1
65°	2659.6	2666.0	2698.0	3025.7	3492.3	8161.1	20808.7	27921.3	27804.6	20308.4	18014.8
66°	2423.1	2424.6	2474.2	2825.8	3134.3	6645.9	19288.7	28097.1	28161.1	20714.4	17837.4
67.5°	2117.8	2111.4	2183.3	2539.7	2854.7	4791.8	16568.4	27384.3	27763.1	21026.1	17199.7
70°	1641.5	1633.5	1721.4	2130.5	2629.2	3196.7	11012.5	23513.1	24123.7	20388.4	15217.8
72.5°	1093.2	1099.6	1249.9	1681.4	2509.4	2814.7	6625.1	17886.9	18750.0	16836.8	11971.5
75°	637.8	649.0	820.0	1249.9	2178.5	2683.6	3749.7	12754.7	13306.1	11626.3	7457.8
77.5°	334.0	338.9	458.8	824.7	1670.3	2491.8	2498.2	8148.3	8407.2	5650.1	2952.1
80°	177.4	172.7	246.2	497.0	1149.2	2188.1	2026.7	4313.9	4484.9	1678.3	746.4
82.5°	67.1	73.5	131.1	326.0	679.3	1571.2	1745.4	1906.8	1847.6	369.2	313.3
85°	12.8	16.0	55.9	193.4	342.0	656.9	1286.6	935.1	866.3	139.1	180.6
87.5°	1.6	3.2	16.0	46.4	49.6	222.1	380.4	258.9	223.8	51.1	75.1
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°	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8	5611.8
2.5°	5615.0	5571.8	5427.9	5285.7	5140.2	5009.2	4919.7	4774.2	4737.5	4684.7	4654.4
5°	5603.8	5503.1	5226.5	4924.4	4643.2	4339.5	4107.7	3883.9	3764.1	3703.4	3681.0
7.5°	5571.8	5411.9	4980.4	4507.3	4056.6	3602.7	3207.9	2907.4	2714.0	2581.3	2491.8
10°	5507.9	5287.3	4694.3	4043.8	3362.9	2763.5	2263.3	1882.8	1588.7	1496.1	1499.2
12.5°	5442.3	5148.2	4374.6	3529.1	2685.2	1929.2	1398.5	1098.1	957.4	911.0	901.5
15°	5381.6	5015.6	4061.3	3030.4	1999.5	1249.9	901.5	796.0	757.6	749.6	748.0
17.5°	5349.6	4892.5	3727.3	2459.9	1395.4	848.7	722.5	693.7	682.5	674.5	671.3
20°	5322.4	4785.4	3407.6	1926.0	954.2	695.3	647.3	620.1	601.0	593.0	588.2
22.5°	5303.3	4675.1	3076.8	1491.2	730.5	616.9	573.8	538.6	511.5	501.9	495.5
25°	5274.5	4553.7	2742.8	1090.1	615.4	548.3	498.7	457.1	422.0	404.3	401.2
27.5°	5232.9	4416.2	2376.7	807.2	549.8	487.5	426.7	375.6	340.4	321.3	322.8
30°	5165.8	4272.4	2010.7	641.0	497.0	425.2	359.6	310.1	276.5	262.1	260.5
32.5°	5085.9	4098.1	1675.1	549.8	449.1	369.2	300.5	257.3	231.8	220.6	219.0
35°	5010.8	3922.3	1333.0	493.9	399.6	318.1	252.5	215.8	196.6	187.0	188.6
37.5°	4969.2	3765.7	1038.9	449.1	359.6	273.3	217.4	185.4	167.8	159.8	158.2
40°	4996.4	3637.8	826.3	409.2	314.8	235.0	187.0	159.8	142.3	131.1	131.1
42.5°	5124.3	3581.8	666.5	370.8	273.3	203.0	163.0	137.5	118.3	107.1	108.7
45°	5514.3	3641.0	557.8	335.7	235.0	175.8	140.6	113.5	95.9	87.9	86.3
47.5°	6161.6	3863.2	482.7	298.9	201.4	150.3	118.3	94.3	76.7	70.3	68.7
50°	7293.2	4321.9	426.7	262.1	171.0	127.9	97.5	75.1	60.8	54.3	54.3
52.5°	8850.0	5322.4	386.8	220.6	143.8	108.7	79.9	60.8	47.9	43.1	41.6
55°	10477.1	6377.4	366.1	185.4	119.9	89.5	64.0	47.9	36.7	31.9	30.4
57.5°	12041.8	7205.3	342.0	150.3	95.9	68.7	49.6	36.7	25.6	22.4	20.7
60°	13542.7	7875.0	290.9	119.9	75.1	49.6	36.7	25.6	17.6	14.4	14.4
62.5°	14885.3	8265.0	228.6	95.9	57.6	35.2	24.0	19.2	12.8	9.6	9.6
65°	15041.9	7758.3	172.7	73.5	41.6	22.4	14.4	14.4	9.6	6.4	6.4
66°	14727.1	7328.3	151.8	67.1	36.7	19.2	12.8	11.2	8.0	4.8	4.8
67.5°	14023.8	6594.7	131.1	57.6	30.4	14.4	9.6	9.6	6.4	3.2	3.2
70°	12117.0	5386.4	103.9	43.1	22.4	11.2	6.4	6.4	4.8	3.2	3.2
72.5°	9235.2	4021.4	84.7	31.9	16.0	8.0	4.8	4.8	4.8	3.2	3.2
75°	5570.2	2165.8	65.5	24.0	14.4	6.4	3.2	4.8	6.4	4.8	3.2
77.5°	2052.2	736.8	51.1	19.2	11.2	6.4	3.2	3.2	6.4	4.8	4.8
80°	503.5	191.8	36.7	16.0	11.2	6.4	3.2	3.2	6.4	6.4	6.4
82.5°	233.3	81.5	25.6	14.4	11.2	6.4	3.2	3.2	4.8	6.4	6.4
85°	134.3	38.4	20.7	16.0	11.2	6.4	3.2	3.2	4.8	6.4	6.4
87.5°	54.3	19.2	19.2	16.0	12.8	8.0	3.2	3.2	3.2	4.8	4.8
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)